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Volume 14 - Issue 23 | December (I) 2022



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### **Equilibrium, Kinetic and Thermodynamic Studies for the Adsorption of Metanil Yellow Using Carbonized Pistachio Shell-Magnetic Nanoparticles** (/2073-4441/14/24/4139)

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Water 2022, 14(24), 4139; <https://doi.org/10.3390/w14244139> (https://doi.org/10.3390/w14244139) - 19 Dec 2022

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**Abstract** The cost-effective adsorbents of carbonized pistachio shell magnetic nanoparticles (CPSMNPs) were synthesized. SEM, EDX, and BET characterized the prepared CPSMNPs. The CPSMNPs were used as adsorbents to remove Metanil Yellow (MY) dye. The adsorption of MY was investigated with the effect of pH, [...]. [Read more.](#)

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**Advanced Treatment of Laundry Wastewater by Electro-Hybrid Ozonation–Coagulation Process: Surfactant and Microplastic Removal and Mechanism** ([/2073-4441/14/24/4138](#))

by [Jiahao Luo](#) (<https://sciprofiles.com/profile/author/K2tWMWpLSmZYRGRGT2FtFRaSmRGNDfQbHixNH1TTNLakpZTGszcndXZz0=>),

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*Water* 2022, 14(24), 4138; <https://doi.org/10.3390/w14244138> (<https://doi.org/10.3390/w14244138>) - 19 Dec 2022

**Abstract** Laundry wastewater is supposed to be one of the most important sources of surfactants and microplastics in the wastewater treatment plant. Consequently, the aim of the study was evaluating the performance and mechanism of the electro-hybrid ozonation–coagulation (E-HOC) process for the removal of [...] [Read more](#).

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**Synthesis of Fumed-Pr-Pi-TCT as a Fluorescent Chemosensor for the Detection of Cyanide Ions in Aqueous Media** ([/2073-4441/14/24/4137](#))

by

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*Water* 2022, 14(24), 4137; <https://doi.org/10.3390/w14244137> (<https://doi.org/10.3390/w14244137>) - 19 Dec 2022

**Abstract** In this research, fumed silica scaffolds modified via treatment with (3-chloropropyl)-triethoxysilane, piperazine, and trichlorotriazine groups were deployed for the specific detection of cyanide ions, thus paving the way for the detection of environmental hazards and pollutants with high specificity. Fumed-propyl -piperazine-trichlorotriazine (fumed-Pr-Pi-TCT) was [...] [Read more](#).

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*Water* 2022, 14(24), 4136; <https://doi.org/10.3390/w14244136> (<https://doi.org/10.3390/w14244136>) - 19 Dec 2022


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**Abstract** Despite laws and directives for the regulation and restriction of pesticides in farming, the large use of Plant-Protection Products (PPPs) in paddy fields is a relevant worldwide cause of environmental contamination. The aim of this work is to evaluate the environmental impact due [...] [Read more](#).  
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**Channel Bed Adjustment of the Lowermost Yangtze River Estuary from 1983 to 2018: Causes and Implications ( /2073-4441/14/24/4135 )**

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*Water* 2022, 14(24), 4135; <https://doi.org/10.3390/w14244135> (<https://doi.org/10.3390/w14244135>) - 19 Dec 2022

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**Abstract** Deltaic channels are significant landforms at the interface of sediment transfer from land to oceanic realms. Understanding the dynamics of these channels is urgent because delta processes are sensitive to climate change and adjustments in human activity. To obtain a better understanding of [...] [Read more](#).

(This article belongs to the Special Issue [Estuarine and Coastal Morphodynamics and Dynamic Sedimentation \( /journal/water/special\\_issues/morphodynamics\\_sedimentation \)](#))

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**Long-Term Temporal Flood Predictions Made Using Convolutional Neural Networks ( /2073-4441/14/24/4134 )**

by [Hau-Wei Wang \(https://sciprofiles.com/profile/612344\)](https://sciprofiles.com/profile/612344), [Gwo-Fong Lin \(https://sciprofiles.com/profile/133007\)](https://sciprofiles.com/profile/133007),  
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**Abstract** This study proposes a method for predicting the long-term temporal two-dimensional range and depth of flooding in all grid points by using a convolutional neural network (CNN). The deep learning model was trained using a large rainfall dataset obtained from actual flooding events, [...] [Read more](#).  
(This article belongs to the Special Issue [Advances in Flood Frequency and Inundation Modeling: Application of Statistical, Hydrodynamic, Remote Sensing, and Machine Learning Tools \( /journal/water/special\\_issues/Flood\\_Frequency\\_Inundation\\_Modeling \)](#))

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### **Collaborative Ecological Flow Decision Making under the Bengbu Sluice Based on Ecological-Economic Objectives (/2073-4441/14/24/4133)**

by Ying Pei (<https://sciprofiles.com/profile/author/bnAwVXEzNkJROVB6Q1IQSkI2YTVVdz09>),

Baohong Lu (<https://sciprofiles.com/profile/1447842>),

Yang Song (<https://sciprofiles.com/profile/author/TVJQaUhpUIA4aFRNU25Cb2NUaGg5Rm5oejJJMStFU2o3dkhyZnNjQ3pRWT0=>),

Yan Yang (<https://sciprofiles.com/profile/author/elh0RSsxQTlxYzN5UXBrQkxpZ1NuOEdTTzVudGxLR2h4M0RHWkpWQVI5TT0=>),

Xinyue Feng (<https://sciprofiles.com/profile/author/YlhZQTQxUTFxWC9EQIFHRmRvcUdwZ1QMHFtYU9v0I5SzFaUmhNU3FMYz0=>) and

Wenlong Shen (<https://sciprofiles.com/profile/author/L3ZUU0FBVTIIRkVjbTRnZHVucWpERnplejFPWkhpdzVqMVMYK0IPOW52MD0=>).

*Water* 2022, 14(24), 4133; <https://doi.org/10.3390/w14244133> (<https://doi.org/10.3390/w14244133>) - 19 Dec 2022

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**Abstract** The construction of dams destroys the integrity of a watershed system and the continuity of natural water flow, creating a watershed with segmented and fragmented rivers. This, in turn, affects and even destroys the health and stability of the watershed ecosystem. This study [...] [Read more](#).

(This article belongs to the Special Issue [Watershed Aquatic Assessment and Management of Water \(/journal/water/special\\_issues/Watershed\\_Aquatic\\_Assessment\\_Management\)](#).)

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### **A Case Study of a 10-Year Change in the Vegetation and Water Environments of Volcanic Mires in South-Western Japan (/2073-4441/14/24/4132)**

by Akira Haraguchi (<https://sciprofiles.com/profile/494901>)

*Water* 2022, 14(24), 4132; <https://doi.org/10.3390/w14244132> (<https://doi.org/10.3390/w14244132>) - 19 Dec 2022

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**Abstract** Variations in the groundwater environments and dominant species of volcanic mire vegetation were monitored for 10 years in a volcanic area in south-western Japan. The correlation between changes in groundwater environments and vegetation revealed that changes in water environments determine the dominant species [...] [Read more](#).

(This article belongs to the Special Issue [Water Chemistry and Community in Peatlands: Dynamics and Disturbances of Water Environment and Wetlands Community \(/journal/water/special\\_issues/Peat\\_Water\)](#).)

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### **Hydrogeochemical Characteristics and Groundwater Quality in a Coastal Urbanized Area, South China: Impact of Land Use (/2073-4441/14/24/4131)**

by Chunyan Liu (<https://sciprofiles.com/profile/author/bGh1Z1VVWXJmRIRxNHh1WINxZihSQT09>),

Qinxuan Hou (<https://sciprofiles.com/profile/2552584>),

Yetao Chen (<https://sciprofiles.com/profile/author/K0ZlaitXcC9yWVZjVnUrVWInM2FQTHY4UGxWU3N2SGVLckxiWHUzYkNWVT0=>) and

Guanxing Huang (<https://sciprofiles.com/profile/2179437>).

*Water* 2022, 14(24), 4131; <https://doi.org/10.3390/w14244131> (<https://doi.org/10.3390/w14244131>) - 19 Dec 2022

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**Abstract** Land use transformation accompanied with various human activities affects groundwater chemistry and quality globally, especially in coastal urbanized areas because of complex human activities. This study investigated the impact of land use on groundwater chemistry and quality in a coastal alluvial aquifer (CAA) [...] [Read more](#).

(This article belongs to the Special Issue [Groundwater Chemistry and Quality in Coastal Aquifers \(/journal/water/special\\_issues/groundwater\\_chemistry\\_quality\)](#).)

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### **Quantifying Groundwater Infiltrations into Subway Lines and Underground Car Parks Using MODFLOW-USG (/2073-4441/14/24/4130)**

by Davide Sartirana (<https://sciprofiles.com/profile/1255602>), Chiara Zanotti (<https://sciprofiles.com/profile/1454645>),

Marco Rotiroti (<https://sciprofiles.com/profile/342465>),

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Q0JuN0RubGJHUUs0UHJLTtDSMGJBc3dBdTI5TGlxYUdKdU02dJlVUjFOVT0=),

Letizia Fumagalli (<https://sciprofiles.com/profile/2611181>) and Tullia Bonomi (<https://sciprofiles.com/profile/443077>)

*Water* 2022, 14(24), 4130; <https://doi.org/10.3390/w14244130> (<https://doi.org/10.3390/w14244130>) - 19 Dec 2022

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**Abstract** Urbanization is a worldwide process that recently has culminated in wider use of the subsurface, determining a significant interaction between groundwater and underground infrastructures. This can result in infiltrations, corrosion, and stability issues for the subsurface elements. Numerical models are the most applied [...] [Read more.](#)

(This article belongs to the Special Issue [Groundwater Hydrological Model Simulation \(/journal/water/special\\_issues/Hydrological\\_Model/\)](#))



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**Occurrence and Removal of Priority Substances and Contaminants of Emerging Concern at the WWTP of Benidorm (Spain) (/2073-4441/14/24/4129)**

by [Edmond Tiberius Alexa \(https://sciprofiles.com/profile/2543297\)](#),

[María de los Ángeles Bernal-Romero del Hombre Bueno \(https://sciprofiles.com/profile/author/SHBUOExOekxVRi93RkdWZDIucC9FUT09\)](#),

[Raquel González \(https://sciprofiles.com/profile/author/WG1iZkFxZHdKbEFVQSt1V2xPT1dDTEJ1M3ZneGJTRUJwZiIuT3dTbHcrMD0=\)](#),

[Antonio V. Sánchez \(https://sciprofiles.com/profile/author/VytVeUUyMDRWnjhHbk1vN0ttUzBYdVA0aGVjanNnZmRNdWiiRHB6dmxrcz0=\)](#),

[Héctor García \(https://sciprofiles.com/profile/author/ZjNSSWtxV3BCZTVjZ3kxRFVWtmVRdmhINTJHNkIQS3Q1cGNJdElyWU5LYz0=\)](#) and

[Daniel Prats \(https://sciprofiles.com/profile/950311\)](#)

*Water* **2022**, *14*(24), 4129; <https://doi.org/10.3390/w14244129> (<https://doi.org/10.3390/w14244129>) - 19 Dec 2022

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**Abstract** This work is part of the European research project LIFE15 ENV/ES/00598 whose objective was to develop an efficient and sustainable methodology to eliminate Priority Substances (PS) and Contaminants of Emerging Concern (CEC), in Wastewater Treatment Plants (WWTP). The aim was to achieve reduce [...] [Read more.](#)

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**A Low-Cost Wireless Sensor for Real-Time Monitoring of Water Level in Lowland Rice Field under Alternate Wetting and Drying Irrigation (/2073-4441/14/24/4128)**

by [Kristelle Marie S. Dela Cruz \(https://sciprofiles.com/profile/2589649\)](#), [Victor B. Ella \(https://sciprofiles.com/profile/2055478\)](#),

[Delfin C. Sumintrado \(https://sciprofiles.com/profile/author/OERxR3d2Uks2b3BBYWJBZ2QvaXJ5VU5RSdCd3FCWVfQVHhNU0QxTIV6az0=\)](#),

[Gamiello S. Pereira \(https://sciprofiles.com/profile/author/UGozNU1HeEZOCmhHbUtaY2FIVVvqQTRDTldMeIN5eGpRVU1KZ2VKWINTaz0=\)](#) and

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*Water* **2022**, *14*(24), 4128; <https://doi.org/10.3390/w14244128> (<https://doi.org/10.3390/w14244128>) - 19 Dec 2022

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**Abstract** The use of wireless sensors for real-time monitoring of field water level would greatly facilitate the application of alternate wetting and drying (AWD), an irrigation water management technique proven to result to significant water savings and reduced methane emissions in lowland rice production [...] [Read more.](#)

(This article belongs to the Special Issue [Advances in Sustainable Agriculture Progress under Climate Change \(/journal/water/special\\_issues/Sustainable\\_Agriculture\\_Climate/\)](#))

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**Spatio-Temporal Analysis and Driving Factors of Soil Water Erosion in the Three-River Headwaters Region, China (/2073-4441/14/24/4127)**

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by [Dan Wu](https://sciprofiles.com/profile/author/UESyTHVsYXJmRzFISm84WnRoU2FpcVpHWkMzUXFoSE5QMw5JU1NOWjVxST0=) (<https://sciprofiles.com/profile/author/UESyTHVsYXJmRzFISm84WnRoU2FpcVpHWkMzUXFoSE5QMw5JU1NOWjVxST0=>), [Rui Peng](https://sciprofiles.com/profile/author/V2oxZXJldkFTdWpNdGgwYUFRoWpaL2dkdENEU01PM3RILzJ3dDBES2JIVT0=) (<https://sciprofiles.com/profile/author/V2oxZXJldkFTdWpNdGgwYUFRoWpaL2dkdENEU01PM3RILzJ3dDBES2JIVT0=>), [Lin Huang](https://sciprofiles.com/profile/author/Wk5RUMFXTEFYZEZlaFpYNEd0VXJYbFh6anRHbDdVYVJwOXZ5T28xTGtSTT0=) (<https://sciprofiles.com/profile/author/Wk5RUMFXTEFYZEZlaFpYNEd0VXJYbFh6anRHbDdVYVJwOXZ5T28xTGtSTT0=>), [Wei Cao](https://sciprofiles.com/profile/104400) (<https://sciprofiles.com/profile/104400>) and [Taoli Huhe](https://sciprofiles.com/profile/1331608) (<https://sciprofiles.com/profile/1331608>)  
*Water* 2022, 14(24), 4127; <https://doi.org/10.3390/w14244127> (<https://doi.org/10.3390/w14244127>) - 18 Dec 2022

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**Abstract** Soil water erosion is considered to be a major threat to ecosystems and an important environmental problem. Aggravation of soil and water loss in the Three-River Headwaters Region (TRHR) is a prominent problem in China. In this research, the Revised Universal Soil Loss [...] [Read more](#).  
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**Modeling Hydrological Regimes of Floodplain Wetlands Using Remote Sensing and Field Survey Data** ([/2073-4441/14/24/4126](#))

by [Xiaodong Na](https://sciprofiles.com/profile/1878762) (<https://sciprofiles.com/profile/1878762>) and [Wenliang Li](https://sciprofiles.com/profile/86861) (<https://sciprofiles.com/profile/86861>)  
*Water* 2022, 14(24), 4126; <https://doi.org/10.3390/w14244126> (<https://doi.org/10.3390/w14244126>) - 18 Dec 2022

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**Abstract** Understanding the variations in the water regimes of wetland ecosystems is crucial to analyzing the dynamics of wetland habitats under different water management policies and recharge conditions. A MIKE21 hydrodynamic model was constructed to simulate changes in the water level and flood extent [...] [Read more](#).

(This article belongs to the Special Issue [Hydroclimatic Extremes and Impacts in Regional Climate Modeling: Observations, Mechanisms, and Projections \( /journal/water/special\\_issues/extreme\\_climate\\_projection \)](#))

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**Preparation of Magnetic Dummy Molecularly Imprinted Meso-Porous Silica Nanoparticles Using a Semi-Covalent Imprinting Approach for the Rapid and Selective Removal of Bisphenols from Environmental Water Samples** ([/2073-4441/14/24/4125](#))

by [Jing Chen](https://sciprofiles.com/profile/author/MGgzdXZ1d1UzS2M1M2pCcU5KejE2TmFwVXpEbUFXZHE2SzeE3UWJtKzd6QT0=) (<https://sciprofiles.com/profile/author/MGgzdXZ1d1UzS2M1M2pCcU5KejE2TmFwVXpEbUFXZHE2SzeE3UWJtKzd6QT0=>), [Xiaoli Sun](https://sciprofiles.com/profile/2507981) (<https://sciprofiles.com/profile/2507981>), [Muhua Wang](https://sciprofiles.com/profile/author/cjIXa0drZFdTXYXFzEhDeXICOSvtdz09) (<https://sciprofiles.com/profile/author/cjIXa0drZFdTXYXFzEhDeXICOSvtdz09>), [Yan Wang](https://sciprofiles.com/profile/author/TE94RFNZQWIBVfWqZlEMkhMb3ISSUIRNfHGUXdKbGIHbktvUEpBbkcvTT0=) (<https://sciprofiles.com/profile/author/TE94RFNZQWIBVfWqZlEMkhMb3ISSUIRNfHGUXdKbGIHbktvUEpBbkcvTT0=>), [Qinyao Wu](https://sciprofiles.com/profile/author/bXdDUVnM08xS095TUdpRGh4ZUw4VDRZcDEvSTFCVIVpL3ozRURPeTFZdz0=) (<https://sciprofiles.com/profile/author/bXdDUVnM08xS095TUdpRGh4ZUw4VDRZcDEvSTFCVIVpL3ozRURPeTFZdz0=>), [Shurong Wu](https://sciprofiles.com/profile/author/VEw2WEZScm9xMGfBfZKYjJsUENkTGerdRrXQWtpbDBVUHhKMGRhb2hGdz0=) (<https://sciprofiles.com/profile/author/VEw2WEZScm9xMGfBfZKYjJsUENkTGerdRrXQWtpbDBVUHhKMGRhb2hGdz0=>) and [Sisi Fang](https://sciprofiles.com/profile/author/TOIEbUhhZVRwT24rZ0tIYy92NFNXVfFekVJUXNjSXJQOWRYaXNzMGU3ST0=) (<https://sciprofiles.com/profile/author/TOIEbUhhZVRwT24rZ0tIYy92NFNXVfFekVJUXNjSXJQOWRYaXNzMGU3ST0=>)  
*Water* 2022, 14(24), 4125; <https://doi.org/10.3390/w14244125> (<https://doi.org/10.3390/w14244125>) - 18 Dec 2022

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**Abstract** Bisphenol compounds (BPs) are a severe threat to humans and creatures; hence it is critical to develop a quick and simple approach for removing trace BPs from water. This research synthesized a novel template–monomer complex, phenolphthalein-(3-isocyanatopropyl)triethoxysilane (PP-ICPTES), as a dummy template, and a [...] [Read more](#).

(This article belongs to the Special Issue [Advances in Wastewater Treatment: Resources Recovery, Energy Neutralization, Water Reuse \( /journal/water/special\\_issues/WWT\\_c \)](#))

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**Differentiating Nitrate Origins and Fate in a Semi-Arid Basin (Tunisia) via Geostatistical Analyses and Groundwater Modelling.** (2073-4441/14/24/4124)

by

[Kaouther Ncibi](https://sciprofiles.com/profile/author/YUdKT0NzSXduTWd2MVdpUG1HV21IZUY3QlcrK0VQYURZN1ROQmk1UkQrTnIBQkx6VXk1e) (https://sciprofiles.com/profile/author/YUdKT0NzSXduTWd2MVdpUG1HV21IZUY3QlcrK0VQYURZN1ROQmk1UkQrTnIBQkx6VXk1e)

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*Water* 2022, 14(24), 4124; <https://doi.org/10.3390/w14244124> (https://doi.org/10.3390/w14244124) - 18 Dec 2022

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**Abstract** Despite efforts to protect the hydrosystems from increasing pollution, nitrate (NO<sub>3</sub><sup>-</sup>) remains a major groundwater pollutant worldwide, and determining its origin is still crucial and challenging. To disentangle the origins and fate of high NO<sub>3</sub><sup>-</sup> (>900 mg/L) in [...] [Read more.](#)

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**Deterministic and Stochastic Generation of Evaporation Data for Long-Term Mine Pit Lake Water Balance Modelling.** (2073-4441/14/24/4123)

by

[Kristian Mandaran](https://sciprofiles.com/profile/author/UEdhYS8ydTBTbzJBd3h6TnlyUlp0NWRpWGpaN1hxeFRoUHBPVIF4NTRKQThac09KdTRL) (https://sciprofiles.com/profile/author/UEdhYS8ydTBTbzJBd3h6TnlyUlp0NWRpWGpaN1hxeFRoUHBPVIF4NTRKQThac09KdTRL)

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*Water* 2022, 14(24), 4123; <https://doi.org/10.3390/w14244123> (https://doi.org/10.3390/w14244123) - 17 Dec 2022

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**Abstract** Lakes commonly form in mine pits following the end of mining. A good understanding of the pit lake water balance over future decades to centuries is essential to understand and manage environmental risks from the lake. Evaporation is often the major or only [...] [Read more.](#)

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**Residues of Selected Anticonvulsive Drugs in Surface Waters of the Elbe River Basin (Czech Republic)** (2073-4441/14/24/4122)

by [Martin Ferencik](https://sciprofiles.com/profile/1618629) (https://sciprofiles.com/profile/1618629), [Jana Blahova](https://sciprofiles.com/profile/1650247) (https://sciprofiles.com/profile/1650247),

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[Pavla Lakdawala](https://sciprofiles.com/profile/2263674) (https://sciprofiles.com/profile/2263674)

*Water* 2022, 14(24), 4122; <https://doi.org/10.3390/w14244122> (https://doi.org/10.3390/w14244122) - 17 Dec 2022

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**Abstract** Anticonvulsants are pharmaceuticals used for epilepsy treatment, pain syndromes therapy and for various psychiatric indications. They enter the aquatic environment mainly through wastewater and were found to cause both biochemical and behavioral changes in aquatic biota. Because the consumption of anticonvulsive drugs is [...] [Read more.](#)

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### **Prioritizing Water Resources for Conservation in a Land of Water Crisis: The Case of Protected Areas of Iran** (/2073-4441/14/24/4121)

by [Parvaneh Sobhani](#) (<https://sciprofiles.com/profile/author/UWpsUHpxbEU4MjRUCFZoM2FJbEtYUUhRbUpMV0xFMINzenpWK1VUWU8vTT0=>), [Hassan Esmailzadeh](#) (<https://sciprofiles.com/profile/1903501>), [Seyed Mohammad Moein Sadeghi](#) (<https://sciprofiles.com/profile/425884>), [Isabelle D. Wolf](#) (<https://sciprofiles.com/profile/533496>) and [Azade Deljouei](#) (<https://sciprofiles.com/profile/994243>)

*Water* 2022, 14(24), 4121; <https://doi.org/10.3390/w14244121> (<https://doi.org/10.3390/w14244121>) - 17 Dec 2022

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**Abstract** This study examines the distribution of water resources in Protected Areas in Iran and their priority for conservation. The results show that most of the water resources are located in the north and northwest of Iran due to favorable climatic conditions, topography, ambient [...]. [Read more.](#)

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### **Flow Hydrodynamic in Open Channels: A Constantly Evolving Topic** (/2073-4441/14/24/4120)

by [Mouldi Ben Meftah](#) (<https://sciprofiles.com/profile/379813>)

*Water* 2022, 14(24), 4120; <https://doi.org/10.3390/w14244120> (<https://doi.org/10.3390/w14244120>) - 17 Dec 2022

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**Abstract** Streams and riverbeds are subject to considerable hydromorphological alterations due to the interaction of their flow with natural or man-made structures found throughout them, i [...]. [Full article](#) (/2073-4441/14/24/4120)

(This article belongs to the Special Issue [Flow Hydrodynamic in Open Channels: Interaction with Natural or Man-Made Structures](#) ([/journal/water/special\\_issues/flow\\_hydrodynamic\\_in\\_open\\_channels](/journal/water/special_issues/flow_hydrodynamic_in_open_channels)))

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### **Buried Straw Layer Coupling Film Mulching Regulates Soil Salinity of Coastal Tidal Soil and Improves Maize (*Zea mays* L.) Growth** (/2073-4441/14/24/4119)

by [Juan Wang](#) (<https://sciprofiles.com/profile/2592361>),

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*Water* 2022, 14(24), 4119; <https://doi.org/10.3390/w14244119> (<https://doi.org/10.3390/w14244119>) - 16 Dec 2022

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**Abstract** [Aims] The saline soil in continuous silting tidal areas will become a crucial reserved land resource in China. A prominent problem is controlling soil salinization for improving agricultural water and land resources' productivity in coastal areas. [Methods] An experiment was conducted to study [...]. [Read more.](#)

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### **Future Changes in Temperature and Precipitation Over Northeastern Brazil by CMIP6 Model** (/2073-4441/14/24/4118)

by [Leydson G. Dantas](#) (<https://sciprofiles.com/profile/873670>), [Carlos A. C. dos Santos](#) (<https://sciprofiles.com/profile/692781>),

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[Lincoln M. Alves](#) (<https://sciprofiles.com/profile/1234429>)

*Water* 2022, 14(24), 4118; <https://doi.org/10.3390/w14244118> (<https://doi.org/10.3390/w14244118>) - 16 Dec 2022

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**Abstract** Global warming is causing an intensification of extreme climate events with significant changes in frequency, duration, and intensity over many regions. Understanding the current and future influence of this warming in northeastern Brazil (NEB) is important due to the region's greater vulnerability to [...]. [Read more about our cookies here](#) ([about/privacy](#)).

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### **Numerical Simulation of the Wormhole Propagation in Fractured Carbonate Rocks during Acidization Using a Thermal-Hydrologic-Mechanics-Chemical Coupled Model (/2073-4441/14/24/4117)**

by [Piyang Liu \(https://sciprofiles.com/profile/2338325\)](#),

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[Zhao Zhang \(https://sciprofiles.com/profile/2531533\)](#) and [Kai Zhang \(https://sciprofiles.com/profile/356695\)](#)

*Water* 2022, 14(24), 4117; <https://doi.org/10.3390/w14244117> (<https://doi.org/10.3390/w14244117>) - 16 Dec 2022

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**Abstract** Acidizing is a widely adopted approach for stimulating carbonate reservoirs. The two-scale continuum (TSC) model is the most widely used model for simulating the reactive process in a carbonate reservoir during acidizing. In realistic cases, there are overburden pressure and pore pressure at [...]. [Read more.](#)

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### **Physical and Rheological Characteristics of Sediment for Nautical Depth Assessment in Bushehr Port and Its Access Channel (/2073-4441/14/24/4116)**

by [Farzin Samsami \(https://sciprofiles.com/profile/2534293\)](#),

[Seyyed Abbas Haghshenas \(https://sciprofiles.com/profile/author/NmpUeUisOFdCYThQSElaRGZBUDVLsmVIQyTBT3NiQJbubIM4U2dvUm10MD0=\)](#)

and

[Mohsen Soltanpour \(https://sciprofiles.com/profile/2609616\)](#)

*Water* 2022, 14(24), 4116; <https://doi.org/10.3390/w14244116> (<https://doi.org/10.3390/w14244116>) - 16 Dec 2022

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**Abstract** Sedimentation in ports and waterways covered with fine deposits is a significant challenge in harbor management. The top layer of the bed in such areas typically consists of fluid mud, for which dredging is complicated and less efficient. The goal of this paper [...]. [Read more.](#)

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### **Impacts of Precipitation Type Variations on Runoff Changes in the Source Regions of the Yangtze and Yellow River Basins in the Past 40 Years (/2073-4441/14/24/4115)**

by [Yingying Hu \(https://sciprofiles.com/profile/1265375\)](#), [Yuyan Zhou \(https://sciprofiles.com/profile/2205486\)](#),

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*Water* 2022, 14(24), 4115; <https://doi.org/10.3390/w14244115> (<https://doi.org/10.3390/w14244115>) - 16 Dec 2022

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**Abstract** Variations of precipitation type can exert substantial impacts on hydrological processes, yet few studies have quantified the impacts of precipitation type variations on runoff changes in high-altitude regions. In this study, we attempted to examine the potential impacts of precipitation type variations induced [...]. [Read more.](#)

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### **Determination of River Hydromorphological Features in Low-Land Rivers from Aerial Imagery and Direct Measurements Using Machine Learning Algorithms (/2073-4441/14/24/4114)**

by [Vytautas Akstinas \(https://sciprofiles.com/profile/1574956\)](#), [Andrius Kriščiūnas \(https://sciprofiles.com/profile/1992347\)](#),

[Arminas Šidlauskas \(https://sciprofiles.com/profile/author/amM2Mk5RZlBYWlhSQ2FvN2JYekhUK3JpRwdrREVIUzgb1RIL0R2eWh0bz0=\)](#),

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[Serhii Nazarenko \(https://sciprofiles.com/profile/1991736\)](#) and [Rimantas Barauskas \(https://sciprofiles.com/profile/2206412\)](#) [Back to Top](#)

**Abstract** Hydromorphology of rivers assessed through direct measurements is a time-consuming and relatively expensive procedure. The rapid development of unmanned aerial vehicles and machine learning (ML) technologies enables the usage of aerial images to determine hydromorphological units (HMUs) automatically. The application of various direct [...] [Read more.](#)

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### [Multivariate Analysis of Rotifer Community and Environmental Factors Using the Decomposed Components Extracted from a Time Series](#) ([/2073-4441/14/24/4113](#)).

by [Geun-Hyeok Hong](#) (<https://sciprofiles.com/profile/2624133>), [Kwang-Hyeon Chang](#) (<https://sciprofiles.com/profile/152480>), [Hye-Ji Oh](#) (<https://sciprofiles.com/profile/157696>), [Yerim Choi](#) (<https://sciprofiles.com/profile/author/N2tFZXhwTWg0UjFQWGNnWDNud0IHcjErStdYUUG4Z2NjTW9TOWxCWIRsYz0=>), [Sarang Han](#) (<https://sciprofiles.com/profile/author/ZTZPZ3cxbHJEL3ZOSHMrCXBmFlwUmtVbDVnZmNCankvd2NsZUxMa0M0VTO=>) and [Hyun-Gi Jeong](#) (<https://sciprofiles.com/profile/2408884>)

**Abstract** Zooplankton abundance patterns exhibit apparent seasonality depending on seasonal variations in water temperature. To analyze the abundance patterns of zooplankton communities, it is necessary to consider the environmental factors that are essential for zooplankton community succession. However, this approach is challenging due to [...] [Read more.](#)

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### [Carbon Neutrality Assessment and Driving Factor Analysis of China's Offshore Fishing Industry](#) ([/2073-4441/14/24/4112](#))

by [Hongjun Guan](#) (<https://sciprofiles.com/profile/293775>), [Yuhuan Chen](#) (<https://sciprofiles.com/profile/author/QVZCZDdyUEUvT2dvOWFjZEVESk9oaTJ0bkV1UGJ5WGE2d1lzTnJ5c1Y0UT0=>) and [Aiwu Zhao](#) (<https://sciprofiles.com/profile/2346264>)

**Abstract** The marine fishing industry has a huge carbon sink potential and is also an important source of carbon emissions. The low-carbon development of the marine fishing industry is particularly important. Based on the perspective of carbon neutrality, this study analyzed the trend of [...] [Read more.](#)

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### [Hydrogeochemical Characteristics of Karst Areas: A Case Study of Dongzhuang Reservoir Area in Jinghe River](#) ([/2073-4441/14/24/4111](#))

by [Haifeng Zhang](#) (<https://sciprofiles.com/profile/author/QUFTYIo5RGIVRWtzbjNGUIZIWGdOZ09>), [Jiang Zhan](#) (<https://sciprofiles.com/profile/1174173>), [Weifeng Wan](#) (<https://sciprofiles.com/profile/1594440>) and [Junzhi Wang](#) (<https://sciprofiles.com/profile/author/NUJQWHVMcGx4R2VwK2xNUkxVaSttZDRKdk45Y016bJFPUXJBRjhnL0Qybz0=>)




**Abstract** Karst areas are the key point that affects the construction of reservoir areas. In this article, the hydrogeochemical origin and hydraulic connection of the river water, pore water, fissure water, and karst water in Jinghe Dongzhuang Reservoir, which is located in a karst [...] [Read more.](#)

(This article belongs to the Special Issue [Hydrogeology and Geochemistry of Karst Aquifers](#) ([/journal/water/special\\_issues/hydrogeology\\_karst\\_aquifers](#)))

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**Temp-Spatial Heterogeneity of Water Recharge and Its Stable Mechanisms of the Mountainous Rice Terraces in East Asia Monsoon Region** ([/2073-4441/14/24/4110](https://doi.org/10.3390/w14244110)).

by  [Chengjing Liu](https://sciprofiles.com/profile/author/RWMvU0ZHRWx0eGppMUK5QUi4cFh4Y3dBV2xmYzdRVS9ySGZHUWRVdU1Ccz0=) (<https://sciprofiles.com/profile/author/RWMvU0ZHRWx0eGppMUK5QUi4cFh4Y3dBV2xmYzdRVS9ySGZHUWRVdU1Ccz0=>),  [Yuanmei Jiao](https://sciprofiles.com/profile/554831) (<https://sciprofiles.com/profile/554831>),  [Qiue Xu](https://sciprofiles.com/profile/2328451) (<https://sciprofiles.com/profile/2328451>),  [Zhilin Liu](https://sciprofiles.com/profile/author/MII5bTlyKy9kbTBvaWhyZzVxa3kvQ1E1eE16dGVjUVEvSHo1T3NuSi9EUT0=) (<https://sciprofiles.com/profile/author/MII5bTlyKy9kbTBvaWhyZzVxa3kvQ1E1eE16dGVjUVEvSHo1T3NuSi9EUT0=>) and  [Yinping Ding](https://sciprofiles.com/profile/author/bEZ2UXQxTU81UTBWd3JIV2RVRWNjU2s1Wi9qeEp4aEJmT1ZkUSt4R2NGdz0=) (<https://sciprofiles.com/profile/author/bEZ2UXQxTU81UTBWd3JIV2RVRWNjU2s1Wi9qeEp4aEJmT1ZkUSt4R2NGdz0=>). *Water* **2022**, *14*(24), 4110; <https://doi.org/10.3390/w14244110> (<https://doi.org/10.3390/w14244110>) - 16 Dec 2022

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**Abstract** The paddy field water recharge system and the mechanism of its stability are key scientific issues related to reducing the threat to global food security and enhancing the well-being of humans. In this study, we sampled the field water, precipitation, and groundwater in [...] [Read more](#).

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


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**Parametrical Study for the Effective Removal of Mordant Black 11 from Synthetic Solutions: *Moringa oleifera* Seeds' Extracts Versus Alum** ([/2073-4441/14/24/4109](https://doi.org/10.3390/w14244109)).

by  [Amina Hadadi](https://sciprofiles.com/profile/2184862) (<https://sciprofiles.com/profile/2184862>),  [Ali Imessaoudene](https://sciprofiles.com/profile/2262764) (<https://sciprofiles.com/profile/2262764>),  [Jean-Claude Bollinger](https://sciprofiles.com/profile/author/cXNkdG1KMGRWTFBGMTE3SnN3WEZnenlqMWJMaitJWTBoUDg3aTMzT0xFdz0=) (<https://sciprofiles.com/profile/author/cXNkdG1KMGRWTFBGMTE3SnN3WEZnenlqMWJMaitJWTBoUDg3aTMzT0xFdz0=>),  [Sabrina Cheikh](https://sciprofiles.com/profile/author/OSTJvZdlUzBLK0lPc3FTdXMwdWhTdUNxZmNpUGtoMzczd0tYT0wxc21PRT0=) (<https://sciprofiles.com/profile/author/OSTJvZdlUzBLK0lPc3FTdXMwdWhTdUNxZmNpUGtoMzczd0tYT0wxc21PRT0=>),  [Aymen Amine Assadi](https://sciprofiles.com/profile/88251) (<https://sciprofiles.com/profile/88251>),  [Abdeltif Amrane](https://sciprofiles.com/profile/937801) (<https://sciprofiles.com/profile/937801>),  [Mohamed Kebir](https://sciprofiles.com/profile/2599113) (<https://sciprofiles.com/profile/2599113>) and  [Lotfi Mouni](https://sciprofiles.com/profile/2263491) (<https://sciprofiles.com/profile/2263491>). *Water* **2022**, *14*(24), 4109; <https://doi.org/10.3390/w14244109> (<https://doi.org/10.3390/w14244109>) - 16 Dec 2022

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**Abstract** Prior studies have examined the ability of *Moringa oleifera* (*MO*) seed extract, among other natural coagulants, to remove several types of dyes. *MO* has been proven to have a high capacity to remove some anionic dyes. The aim of the present [...] [Read more](#).

(This article belongs to the Special Issue **Coagulants/Flocculants Derived from Natural Materials for Water and Wastewater Treatment** ([/journal/water/special\\_issues/5XDS0SF009](https://www.mdpi.com/journal/water/special_issues/5XDS0SF009))).






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**Evaluation of the Adsorptive Performances of Rapeseed Waste in the Removal of Toxic Metal Ions in Aqueous Media** ([/2073-4441/14/24/4108](https://doi.org/10.3390/w14244108)).

by  [We Teoock Asenie](https://sciprofiles.com/profile/author/AAC101ZpZmsxN095OHVsdWpja28yQIVGWE4dOWI0bDB2cW5ibnpKanZnMD0=) (<https://sciprofiles.com/profile/author/AAC101ZpZmsxN095OHVsdWpja28yQIVGWE4dOWI0bDB2cW5ibnpKanZnMD0=>),  [Reah Gabriela Căciuc](https://sciprofiles.com/profile/1460388) (<https://sciprofiles.com/profile/1460388>),  [Maria-Cristina Popescu](https://sciprofiles.com/profile/1106194) (<https://sciprofiles.com/profile/1106194>),  [Iuliana Motrescu](https://sciprofiles.com/profile/1087319) (<https://sciprofiles.com/profile/1087319>) and  [Laura Bulgariu](https://sciprofiles.com/profile/181991) (<https://sciprofiles.com/profile/181991>).

*Water* **2022**, *14*(24), 4108; <https://doi.org/10.3390/w14244108> (<https://doi.org/10.3390/w14244108>) - 16 Dec 2022

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**Abstract** Rapeseed seeds are one of the most important categories of raw materials used to obtain biofuels. However, the biomass resulting after oil extraction is still considered waste, for which valorization solutions are sought. In this study, we propose the use of this type [...] [Read more](#).

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**Effects of Extracts Containing Metabolites of Different Cyanobacteria from an Ambient Spring (Central Europe) on Zooplankters *Daphnia magna* and Duckweed *Spirodela polyrhiza* (/2073-4441/14/24/4107)**

by [Magdalena Toporowska \(https://sciprofiles.com/profile/353202\)](#), [Beata Ferencz \(https://sciprofiles.com/profile/417202\)](#) and [Jaroslaw Dawidek \(https://sciprofiles.com/profile/author/anNhWj1d0dzTHVxbDZreUMyc0s0Q1BqK1orb2srbDg5MzYvZzk1aFo3VT0=\)](#)

*Water* 2022, 14(24), 4107; <https://doi.org/10.3390/w14244107> (<https://doi.org/10.3390/w14244107>) - 16 Dec 2022

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**Abstract** Toxic cyanobacterial blooms are a well-known problem in eutrophic water bodies, but cyanobacterial toxicity in ambient springs is unexplored. Therefore, we studied the toxin content and effects of two extracts obtained from epilithic and benthic microbial mats containing different algae and filamentous cyanobacteria, [...] [Read more](#).

(This article belongs to the Special Issue [Aquatic Ecology and Biological Invasions \( /journal/water/special\\_issues/L37J589G60 \)](#))

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**Groundwater Quality and Potential Pollution in the Southern Shimabara Peninsula, Japan (/2073-4441/14/24/4106)**

by [Kei Nakagawa \(https://sciprofiles.com/profile/568030\)](#), [Hiroki Amano \(https://sciprofiles.com/profile/1065506\)](#), [Zhi-Qiang Yu \(https://sciprofiles.com/profile/author/TGhRvmg5YThOTW5jdIFYbytleW1MYW81OWxCU1FLZnkVSExXS0VnSzU3OD0=\)](#) and [Ronny Berndtsson \(https://sciprofiles.com/profile/158293\)](#)

*Water* 2022, 14(24), 4106; <https://doi.org/10.3390/w14244106> (<https://doi.org/10.3390/w14244106>) - 16 Dec 2022

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**Abstract** Nitrate pollution in groundwater is a severe problem in Shimabara Peninsula, Nagasaki Prefecture, Japan. Previous studies have investigated water quality characteristics in the northern part of the peninsula and shown serious effects of nitrate pollution in the groundwater. The present study aimed to [...] [Read more](#).

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**Multiple Copies of anion Exchange Membrane Used in Membrane Bioreactors Functionalized with Ionic Liquids (/2073-4441/14/24/4105)**

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**Abstract** The present work studies the efficiency of new innovative quaternized polysulfone (PSFQ)/ionic liquid (IL) membranes in the treatment process of water containing cadmium ions (Cd(II)). The design and development of the polysulfone membranes with morphology tailored by the use of ILs (Cyphos 101 [...]) **Read more.**

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**Efficient Dye Removal from Real Textile Wastewater Using Orange Seed Powder as Suitable Bio-Adsorbent and Membrane Technology** (</2073-4441/14/24/4104>).

by

◉ [Miguel A. D. Flores Alarcón](https://sciprofiles.com/profile/author/VG9WWHZhN2FOYU3ME1ENTRWZVZsaFBVVEs0c092YS9CMG5ZZUJFY2dQTT) (<https://sciprofiles.com/profile/author/VG9WWHZhN2FOYU3ME1ENTRWZVZsaFBVVEs0c092YS9CMG5ZZUJFY2dQTT>)

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◉ [Gilberto J. Colina Andrade](https://sciprofiles.com/profile/author/RngyeTRheWgxMDdPSGhtTVBUMFFmMUN5RHVxTIBsTG9POEFEdWdpU2VZZ0) (<https://sciprofiles.com/profile/author/RngyeTRheWgxMDdPSGhtTVBUMFFmMUN5RHVxTIBsTG9POEFEdWdpU2VZZ0>) and

◉ [Ruly Terán-Hilares](https://sciprofiles.com/profile/2124314) (<https://sciprofiles.com/profile/2124314>)

**Abstract** Textile wastewater is widely produced and its discharge without treatment contributes to environmental pollution. The adsorption process is a suitable and eco-friendly process due to its low initial cost, no formation of degradation products, operation simplicity, insensitivity to toxic compounds, and the possibility [...]. **Read more.**

(This article belongs to the Section **Wastewater Treatment and Reuse** ([/journal/water/sections/Wastewater\\_Treatment\\_Reuse](/journal/water/sections/Wastewater_Treatment_Reuse)))

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(</2073-4441/14/24/4103/pdf?version=1671178019>)

**Current Assessment of Water Quality and Biota Characteristics of the Pelagic Ecosystem of the Atlantic Sector of Antarctica: The Multidisciplinary Studies by the Institute of Biology of the Southern Seas** (</2073-4441/14/24/4103>).

by ◉ [Natalia Mirzoeva](https://sciprofiles.com/profile/935030) (<https://sciprofiles.com/profile/935030>),

◉ [Tatiana Polyakova](https://sciprofiles.com/profile/author/UlpGeUxjU1B5eVVoMVFLWmhxcGERUTZUUhC4dWtLNER4SGxyQVRWTU5rRT0=) (<https://sciprofiles.com/profile/author/UlpGeUxjU1B5eVVoMVFLWmhxcGERUTZUUhC4dWtLNER4SGxyQVRWTU5rRT0=>),

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◉ [Elena Skorokhod](https://sciprofiles.com/profile/2365697) (<https://sciprofiles.com/profile/2365697>),

◉ [Olga Chuzhikova-Proskurnina](https://sciprofiles.com/profile/author/UFVZeGRqUFBVZk43RzVQYnY1VVRDMGpCZ2JJQjFITlqTm1kVVhwVy90dz0) (<https://sciprofiles.com/profile/author/UFVZeGRqUFBVZk43RzVQYnY1VVRDMGpCZ2JJQjFITlqTm1kVVhwVy90dz0>)

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◉ [Natalia Minkina](https://sciprofiles.com/profile/author/LytFNmNRR3hpM1N4QmtiUkM5bjZORUpGZHHdzhyZWR6cVU5VmnTtCtBdz0=) (<https://sciprofiles.com/profile/author/LytFNmNRR3hpM1N4QmtiUkM5bjZORUpGZHHdzhyZWR6cVU5VmnTtCtBdz0=>),

◉ [Natalia Moiseeva](https://sciprofiles.com/profile/author/UGhMU2RtR3ZuSIBMYkRXTGNFVnNvMGGyempmT2l5eS9KQmVY2MzNf4Yz0E0) (<https://sciprofiles.com/profile/author/UGhMU2RtR3ZuSIBMYkRXTGNFVnNvMGGyempmT2l5eS9KQmVY2MzNf4Yz0E0>)

◉ [Victor Melnikov](https://sciprofiles.com/profile/2502504) (<https://sciprofiles.com/profile/2502504>), ◉ [Artem Paraskiv](https://sciprofiles.com/profile/2416126) (<https://sciprofiles.com/profile/2416126>),

 Lidia Melnikand (<https://sciprofiles.com/profile/author/NkppbzNRjE1bklqdmE2VFRNYm93LzNWb2t3U2s4Ukc3aFMyVVNCQVdqcz0=>), and  Tatiana Efimova (<https://sciprofiles.com/profile/author/aVhLZIRqazB1d1RyEkFOMHAyeWtpQmhYOFPtVS9SQ2M3eHILQ3pGd0pNcz0=>), *Water* 2022, 14(24), 4103; <https://doi.org/10.3390/w14244103> (<https://doi.org/10.3390/w14244103>) - 16 Dec 2022

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**Abstract** Comprehensive studies of the ecosystem of the Atlantic sector of the Antarctic were carried out in the period between 2020 and 2022, during the 79th and 87th sea expeditions on the R/V “Akademik Mstislav Keldysh”. Concentrations of soluble forms of 15 trace elements. [...] **Read more.**  
(This article belongs to the Special Issue **Physical and Biological Properties of Waters in the Region of the Antarctic Peninsula and Adjacent Basins of the South Atlantic** ([/journal/water/special\\_issues/Physical\\_Biological\\_Waters\\_Antarctic](/journal/water/special_issues/Physical_Biological_Waters_Antarctic)))

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**Environmental and Economic Performance of Sludge Composting Optimization Alternatives: A Case Study for Thermally Hydrolyzed Anaerobically Digested Sludge** (</2073-4441/14/24/4102>)

by  Irina Kliopova (<https://sciprofiles.com/profile/2463793>),  Edgaras Stunžėnas (<https://sciprofiles.com/profile/1929208>),

 Jolita Kruopienė (<https://sciprofiles.com/profile/285926>) and

 Rimas Pranas Budrys (<https://sciprofiles.com/profile/author/K0NqaUJqVEtid2VldXZIMk5qU1dKMUxoT0ZCaUFOUWZwMnpkbTRXU29DTT0>)

*Water* 2022, 14(24), 4102; <https://doi.org/10.3390/w14244102> (<https://doi.org/10.3390/w14244102>) - 15 Dec 2022

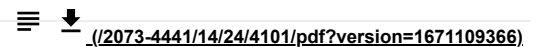
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**Abstract** Composting is one of the ways to return sewage sludge nutrients to the soil and thus keep them in the economic cycle. This well-known technique is still being developed in search of more advanced, optimal solutions. This study presents the results of an [...] **Read more.**  
(This article belongs to the Special Issue **Utilization and Treatment of Sewage Sludge** ([/journal/water/special\\_issues/sewage](/journal/water/special_issues/sewage)))



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**An Estimation of Virtual Trades of Embedded Water and Land through Sri Lankan Seasonal Crops' Trades to Improve the Cropping Preferences** (</2073-4441/14/24/4101>)

by  Zohreh Rajabi (<https://sciprofiles.com/profile/1017829>),  Muhammad Atiq Ur Rehman Tariq (<https://sciprofiles.com/profile/892840>) and

 Nitin Muttil (<https://sciprofiles.com/profile/182365>)

*Water* 2022, 14(24), 4101; <https://doi.org/10.3390/w14244101> (<https://doi.org/10.3390/w14244101>) - 15 Dec 2022

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**Abstract** Due to the increase in population, growing urbanization, and higher demands for processed and unprocessed foods, resources related to food production have become scarce. Water and land can be considered as the primary resources to determine the crop production potential of a country. [...] **Read more.**

(This article belongs to the Special Issue **Addressing Water Security Issues through Water Recycling, Harvesting Footprints, Virtual Water Trade, and Other Novel Approaches** ([/journal/water/special\\_issues/Water\\_Security\\_Issue](/journal/water/special_issues/Water_Security_Issue)))

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**A Short Cost-Effective Methodology for Tracing the Temporal and Spatial Anthropogenic Inputs of Micropollutants into Ecosystems: Verified Mass-Balance Approach Applied to River Confluence and WWTP Release** [\(/2073-4441/14/24/4100\)](#)

by [Hawraa Ayoub](#) (<https://sciprofiles.com/profile/2455975>), [Olivier Potier](#) (<https://sciprofiles.com/profile/2559025>), [Bachar Koubaissy](#) (<https://sciprofiles.com/profile/author/T251RUhGY3I0RndxeWV5MmNILzFiekZoenU4dEJOTmVYUEZYS1RLM3pvbz0=>), [Steve Pontvianne](#) (<https://sciprofiles.com/profile/author/NGxGbmhiMXRaOXFmZEZOQlo4UzdLY21SSnBrd0tIVEE4ZXhHQ0RJWXFHU3NDbU0wUFF>)

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*Water* 2022, 14(24), 4100; <https://doi.org/10.3390/w14244100> (<https://doi.org/10.3390/w14244100>) - 15 Dec 2022

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**Abstract** The aim of this study is to develop a short cost-effective methodology for tracing the temporal and spatial anthropogenic inputs of micropollutants into ecosystems. The method involves a precise identification of the sampling sites based on various constraints: (1) one sampling site at [...] [Read more](#).

(This article belongs to the Section **Biodiversity and Functionality of Aquatic Ecosystems** ([/journal/water/sections/Biodiversity\\_Ecosystem\\_Functioning](#)))

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**Seasonal Variability of Plankton Production Parameters as the Basis for the Formation of Organic Matter Flow in the Southeastern Part of the Baltic Sea** [\(/2073-4441/14/24/4099\)](#)

by [Sergey A. Mosharov](#) (<https://sciprofiles.com/profile/2402750>), [Irina V. Mosharova](#) (<https://sciprofiles.com/profile/author/SmVTVFE2RXpjRXpKR3FzbGtiNWM3dz09>), [Olga A. Dmitrieva](#) (<https://sciprofiles.com/profile/author/dVnKSVFib2Y3TFdhcU5VQnRPZGZYWmZyeEF0am5rbVdWNzYyR00yNmX5ND0=>), [Anna S. Semenova](#) (<https://sciprofiles.com/profile/author/ekx3YjYrU3pwN0ZSTkFGS0JMU53cWh1NzVNUWNGYzBlEtk0SHVTTkVjOD0=>) and [Marina O. Ulyanova](#) (<https://sciprofiles.com/profile/author/T3plSVFJUy9FT2Z2WIRSOHNKeEJObnA5SFJjcVpMQWh4QTRUNGvsOXQxOD0=>)

*Water* 2022, 14(24), 4099; <https://doi.org/10.3390/w14244099> (<https://doi.org/10.3390/w14244099>) - 15 Dec 2022

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**Abstract** The seasonal dynamics of production processes in the Baltic Sea are poorly studied. The aim of our research was to study the seasonal features of primary productivity (including the balance with bacterial production) and its redistribution in plankton in the southeastern part of [...] [Read more](#).

(This article belongs to the Section **Biodiversity and Functionality of Aquatic Ecosystems** ([/journal/water/sections/Biodiversity\\_Ecosystem\\_Functioning](#)))

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**Impacts of Climate Change Induced Sea Level Rise, Flow Increase and Vegetation Encroachment on Flood Hazard in the Biobío River, Chile** [\(/2073-4441/14/24/4098\)](#)

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*Water* **2022**, 14(24), 4098; <https://doi.org/10.3390/w14244098> (<https://doi.org/10.3390/w14244098>) - 15 Dec 2022

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**Abstract** River flooding is one of the most widespread natural disasters. Projections indicate that climate change will increase flood hazard in many areas around the world. In this study, we investigate the individual and combined effects of sea level rise, flow increase and riparian [...]. [Read more.](#)  
(This article belongs to the Section [Water and Climate Change](#) ([/journal/water/sections/water\\_climate\\_change](#)))

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**Temporal and Spatial Variations of the Bacterial Diversity in a Deep Alkaline Lake** ([/2073-4441/14/24/4097](#))

by [E. Gozde Ozbayram](https://sciprofiles.com/profile/2568262) (<https://sciprofiles.com/profile/2568262>), [Latife Köker](https://sciprofiles.com/profile/author/YVNLRLUMwSXhMNjFPazZad3AxTWgwaXdHYjVLYkZQUnJvNTNvSXILVkxPcz0=) (<https://sciprofiles.com/profile/author/YVNLRLUMwSXhMNjFPazZad3AxTWgwaXdHYjVLYkZQUnJvNTNvSXILVkxPcz0=>), [Ayça Oğuz Çam](https://sciprofiles.com/profile/1326714) (<https://sciprofiles.com/profile/1326714>), [Reyhan Akçaalan](https://sciprofiles.com/profile/66633) (<https://sciprofiles.com/profile/66633>) and [Meriç Albay](https://sciprofiles.com/profile/author/NXNqTjZYMxphEUsWZ2Z6Y0FoamtVNTDdDNEa0xxS3FvdXZqSk1qNmVaYz0=) (<https://sciprofiles.com/profile/author/NXNqTjZYMxphEUsWZ2Z6Y0FoamtVNTDdDNEa0xxS3FvdXZqSk1qNmVaYz0=>)

*Water* **2022**, 14(24), 4097; <https://doi.org/10.3390/w14244097> (<https://doi.org/10.3390/w14244097>) - 15 Dec 2022

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**Abstract** This study aimed to investigate the effects of thermal stratification and complete mixing conditions on the bacterial diversity of a deep alkaline lake. For this purpose, the water and sediment samples were collected during the winter turnover and stratification periods, and bacterial communities [...]. [Read more.](#)  
(This article belongs to the Topic [Microorganisms in Aquatic Environments](#) ([/topics/Microorganisms\\_Aquatic\\_Environments](#)))

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**Optimization of Aeration Rate—Low Cost but High Efficiency Operation of Aniline-Degrading Bioaugmentation Reactor** ([/2073-4441/14/24/4096](#))

by [Jianyang Song](https://sciprofiles.com/profile/277576) (<https://sciprofiles.com/profile/277576>), [Chunyan Wang](https://sciprofiles.com/profile/author/b1hJcJcrYkh6d3R5akFSbkQrVipZUWhLenJtSERIaXRIM0hoRm5ndnRNZz0=) (<https://sciprofiles.com/profile/author/b1hJcJcrYkh6d3R5akFSbkQrVipZUWhLenJtSERIaXRIM0hoRm5ndnRNZz0=>), [Haojin Peng](https://sciprofiles.com/profile/author/b0pDZUdVTVBpREVLV05LR1hxazBycXVnT1NseURLQXFzAlpBU3ISdk5FVT0=) (<https://sciprofiles.com/profile/author/b0pDZUdVTVBpREVLV05LR1hxazBycXVnT1NseURLQXFzAlpBU3ISdk5FVT0=>), [Qian Zhang](https://sciprofiles.com/profile/1587147) (<https://sciprofiles.com/profile/1587147>),

[Yao Li](https://sciprofiles.com/profile/author/SjQ5MEw0emZML1RvejJYSWRDeWtDsm1Ka1l0MzVzbUIYcUdIMU5DUmRVdz0=) (<https://sciprofiles.com/profile/author/SjQ5MEw0emZML1RvejJYSWRDeWtDsm1Ka1l0MzVzbUIYcUdIMU5DUmRVdz0=>), [Hua Wei](https://sciprofiles.com/profile/author/VG8rd0l4Wfo3aHR4V2sxcnJUz0ZPZ1ITakpQVU80MmpZnK12dXpCU0NEbz0=) (<https://sciprofiles.com/profile/author/VG8rd0l4Wfo3aHR4V2sxcnJUz0ZPZ1ITakpQVU80MmpZnK12dXpCU0NEbz0=>) and [Hongyu Wang](https://sciprofiles.com/profile/2118839) (<https://sciprofiles.com/profile/2118839>)

*Water* **2022**, 14(24), 4096; <https://doi.org/10.3390/w14244096> (<https://doi.org/10.3390/w14244096>) - 15 Dec 2022

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**Abstract** In this work, two sequencing batch reactors (R0 and R1) were built for treating 600 mg·L<sup>-1</sup> aniline-containing wastewater. R1 was a bioaugmentation system with the addition of highly efficient aniline-degrading strain AD4 (*Deftia* sp.), while R0 served as a control system. [...]. [Read more.](#)  
(This article belongs to the Section [Wastewater Treatment and Reuse](#) ([/journal/water/sections/Wastewater\\_Treatment\\_Reuse](#)))

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**Uptake of Microplastics in the Wedge Clam *Donax trunculus*: First Evidence from the Mediterranean Sea** ([/2073-4441/14/24/4095](#))

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by [Zoe Olivieri](https://sciprofiles.com/profile/author/cC8yckRWeGFJUUndyOHk0WUNsdWRJUUJvcVdYZDBXRERqSmMzUU51ak5Qdz0=) (<https://sciprofiles.com/profile/author/cC8yckRWeGFJUUndyOHk0WUNsdWRJUUJvcVdYZDBXRERqSmMzUU51ak5Qdz0=>), [Giulia Cesarini](https://sciprofiles.com/profile/1109319) (<https://sciprofiles.com/profile/1109319>), [Monica Orsini](https://sciprofiles.com/profile/1637261) (<https://sciprofiles.com/profile/1637261>), [Serena De Santis](https://sciprofiles.com/profile/1325997) (<https://sciprofiles.com/profile/1325997>) and [Massimiliano Scalici](https://sciprofiles.com/profile/918500) (<https://sciprofiles.com/profile/918500>)  
*Water* 2022, 14(24), 4095; <https://doi.org/10.3390/w14244095> (<https://doi.org/10.3390/w14244095>) - 15 Dec 2022  
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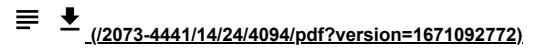
**Abstract** The Mediterranean Sea is affected by microplastic contamination, and several methods have been developed to investigate the degree of environmental plastic pollution. Among these, the use of bioindicators is strongly suggested, and in particular bivalves are sensitive sentinel organisms of the level of [...] [Read more](#).

(This article belongs to the Special Issue [Advances in Aquatic Plastics](#) ([/journal/water/special\\_issues/aquatic\\_plastics](/journal/water/special_issues/aquatic_plastics)))

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[Application of the HEC-RAS Program in the Simulation of the Streamflow Hydrograph for Air Lakitan Watershed](#) (</2073-4441/14/24/4094>)

by [Achmad Syarifudin](https://sciprofiles.com/profile/author/SmFGMmY1R3dLV0hibDlzdGRSejNKVXhmalJ5aFRaYmhodFFHWTBBVVNITVdPMkiGSW) (<https://sciprofiles.com/profile/author/SmFGMmY1R3dLV0hibDlzdGRSejNKVXhmalJ5aFRaYmhodFFHWTBBVVNITVdPMkiGSW>), [Alfredo Satyanaga](https://sciprofiles.com/profile/1510271) (<https://sciprofiles.com/profile/1510271>) and [Henggar Risa Destania](https://sciprofiles.com/profile/author/TnduRXo4cXVVeGV5TmFYVEN1N0dMUXVpUWNKbWpyZG5xTWdTZUswM0tyWT0=) (<https://sciprofiles.com/profile/author/TnduRXo4cXVVeGV5TmFYVEN1N0dMUXVpUWNKbWpyZG5xTWdTZUswM0tyWT0=>)  
*Water* 2022, 14(24), 4094; <https://doi.org/10.3390/w14244094> (<https://doi.org/10.3390/w14244094>) - 15 Dec 2022  
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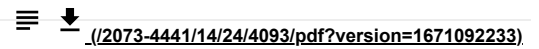


**Abstract** Floods are an issue that results in losses, and thus attempts to solve the problem of flooding are attempts to minimize losses. To mitigate the losses incurred as much as possible, there are several approaches to deal with the loss through incident management [...] [Read more](#).  
(This article belongs to the Section [Hydrology](#) (</journal/water/sections/Hydrology>))

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[Application and Prospect of Curtain Grouting Technology in Mine Water Safety Management in China: A Review](#) (</2073-4441/14/24/4093>)

by [Shichong Yuan](https://sciprofiles.com/profile/1948660) (<https://sciprofiles.com/profile/1948660>), [Bangtao Sun](https://sciprofiles.com/profile/author/bUVjOU1QUTixVW1CZ2ROQ00ydU15VW9uLzJUQR5L0NDd1FCSWpDZGp2ST0=) (<https://sciprofiles.com/profile/author/bUVjOU1QUTixVW1CZ2ROQ00ydU15VW9uLzJUQR5L0NDd1FCSWpDZGp2ST0=>), [Guilei Han](https://sciprofiles.com/profile/author/TC9LTHJKdFdWaWhFZ3JSc0tuRkRNQT09) (<https://sciprofiles.com/profile/author/TC9LTHJKdFdWaWhFZ3JSc0tuRkRNQT09>), [Weiqiang Duan](https://sciprofiles.com/profile/author/aIVSMkUzR1NCbWR5dWpGR1IMcJFSdUVTMjQ2ZIE2TkQ0SmNVSnc2azNnYz0=) (<https://sciprofiles.com/profile/author/aIVSMkUzR1NCbWR5dWpGR1IMcJFSdUVTMjQ2ZIE2TkQ0SmNVSnc2azNnYz0=>) and [Zhixiu Wang](https://sciprofiles.com/profile/author/SnFnSDhsR00zdi8vBIFZcCtkSFFyR0lxMzhVUWtiUUR5OEhld0NKNIXZWT0=) (<https://sciprofiles.com/profile/author/SnFnSDhsR00zdi8vBIFZcCtkSFFyR0lxMzhVUWtiUUR5OEhld0NKNIXZWT0=>)  
*Water* 2022, 14(24), 4093; <https://doi.org/10.3390/w14244093> (<https://doi.org/10.3390/w14244093>) - 15 Dec 2022  
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**Abstract** In China, mine curtain grouting has become an important technology to ensure the safe and efficient mining of deep mineral resources and protect regional groundwater resources after more than 60 years of development and improvement. This review paper summarizes and analyzes four aspects [...] [Read more](#).

(This article belongs to the Special Issue [Mine Water Safety and Environment](#) ([/journal/water/special\\_issues/6Z94SDWV1Z](/journal/water/special_issues/6Z94SDWV1Z)))

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**Effects of Dry and Wet Negev Soil–Dust Deposition on the Induction of Autoxidation of Soil–Dust Lipid Components** [\(2073-4441/14/24/4092\)](#)

by [Jean-François Rontani](#) (<https://sciprofiles.com/profile/1782181>), [Bruno Charriere](#) (<https://sciprofiles.com/profile/190206>), [Christophe Menniti](#) (<https://sciprofiles.com/profile/author/Rm52RjJaenJNenRoL28yVmowUG03bVNuSkxiUnpqdGJ5Z1BuUWNXa1pURT0=>), [Itzhak Katra](#) (<https://sciprofiles.com/profile/794729>) and [Dominique Aubert](#) (<https://sciprofiles.com/profile/539729>)

*Water* **2022**, *14*(24), 4092; <https://doi.org/10.3390/w14244092> (<https://doi.org/10.3390/w14244092>) - 15 Dec 2022

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**Abstract** Lipids and their oxidation products were quantified in loess samples from the Negev Desert (Israel), well known to be a source of desert dusts in the eastern Mediterranean Basin. The results obtained showed the presence of higher plant material (angiosperms and gymnosperms), but [...] [Read more](#). (This article belongs to the Special Issue [Impact of Atmospheric and River Inputs on the Transfer of Elements and Organic Matter to the Ocean](#) ([/journal/water/special\\_issues/Matter\\_Ocean](/journal/water/special_issues/Matter_Ocean)))

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**Methodological Contribution to the Assessment of Generation and Sediment Transport in Tropical Hydrographic Systems** [\(2073-4441/14/24/4091\)](#)

by [Elizon D. Nunes](#) (<https://sciprofiles.com/profile/2580311>), [Patrícia de A. Romão](#) (<https://sciprofiles.com/profile/2585173>), [Maurício M. Sales](#) (<https://sciprofiles.com/profile/author/RGRTYmZWaWozMVVKYtDcEcGcvcE1ZeGINTFdHNOVjd0c4ZFdaV3drRmhHaz0=>), [Newton M. de Souza](#) (<https://sciprofiles.com/profile/author/am04YUFuVFA3T1M0TGdYOFFObnFnZz09>) and [Marta P. da Luz](#) (<https://sciprofiles.com/profile/394743>)

*Water* **2022**, *14*(24), 4091; <https://doi.org/10.3390/w14244091> (<https://doi.org/10.3390/w14244091>) - 15 Dec 2022

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**Abstract** The efficiency and useful life of reservoirs are directly related to the production and input rates of sediments resulting from erosive processes at the edges and those resulting from the action of surface runoff in contribution areas and transported via tributary channels. Knowledge [...] [Read more](#). (This article belongs to the Special Issue [Tropical Rivers and Wetlands in the Anthropocene](#) ([/journal/water/special\\_issues/Tropical\\_Rivers](/journal/water/special_issues/Tropical_Rivers)))

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**Optimal Choices in Decision Supporting System for Network Reservoir Operation** [\(2073-4441/14/24/4090\)](#)

by [Rapeepat Techarungruengsakul](#) (<https://sciprofiles.com/profile/2148476>), [Ratsuda Ngamsert](#) (<https://sciprofiles.com/profile/2654096>), [Teerawat Thongwan](#) (<https://sciprofiles.com/profile/author/NmFQQk5NdWd6M0pQSmYvb3p4TFI1UU9icjlvRjlxNzRkQ2NGdW5xRDdhRT0=>), [Rattana Hormwichian](#) (<https://sciprofiles.com/profile/author/ZUh1NGFLOEdlaU5ZczhkOCtrQ29Ua0FFQWp5SUpHR2IRYkEyB3M4bEtIWT0=>), [Kittiwet Kuntiyawichai](#) (<https://sciprofiles.com/profile/973345>), [Seyed Mohammad Ashrafi](#) (<https://sciprofiles.com/profile/1800684>) and [Anongrit Kangrang](#) (<https://sciprofiles.com/profile/121770>)

*Water* **2022**, *14*(24), 4090; <https://doi.org/10.3390/w14244090> (<https://doi.org/10.3390/w14244090>) - 14 Dec 2022

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**Abstract** The aim of this research was to identify optimal choices in decision support systems for network reservoirs by using optimal rule curves under four scenarios related to water scarcity and overflow situations. These scenarios were normal water shortage, high water shortage, normal overflow [...] [Read more](#).

(This article belongs to the Special Issue [Multi-Criteria Decision Making for Water Environment Management: Innovative Models and Applications](#) ([/journal/water/special\\_issues/Decision\\_Making\\_Water\\_Management](/journal/water/special_issues/Decision_Making_Water_Management)))

**Chemometric Approach to Pesticide Residue Analysis in Surface Water** [\(2073-4441/14/24/4089\)](#)

by [Reda Jijana Abdó](#) (<https://sciprofiles.com/profile/1801307>), [Biljana Lončar](#) (<https://sciprofiles.com/profile/1567000>), [Lato Pezo](#) (<https://sciprofiles.com/profile/476291>), [Nataša Stojić](#) (<https://sciprofiles.com/profile/1913295>), [Dunja Prokić](#) (<https://sciprofiles.com/profile/2635842>), [Vladimir Filipović](#) (<https://sciprofiles.com/profile/1590852>) and [Mira Pucarević](#) (<https://sciprofiles.com/profile/988136>)

**Abstract** Dimethachlor is an herbicide used for oilseed rape protection. Previous studies have demonstrated its high mobility in the soil, which could lead to water contamination. This research aimed to determine the occurrence of dimethachlor and its metabolites (dimethachlor ethanesulfonic acid ESA and dimethachlor [...]) [Read more.](#)

(This article belongs to the Section [Water Quality and Contamination](#) (/journal/water/sections/Water\_Quality\_Contamination))

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### [Fluid-Structure Coupling Creep Characteristics of Red-Bed Soft Rock in South China](#) (/2073-4441/14/24/4088)

by [Shuguang Zhang](#) (https://sciprofiles.com/profile/662531),

[Xiao Yun](#) (https://sciprofiles.com/profile/author/QmUvZUIQU2d5VWY0WFg0WS9CUG80TWRxNFI4b0ptNGJDQ3JiRVJZnktOcz0=),

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Water 2022, 14(24), 4088; <https://doi.org/10.3390/w14244088> (https://doi.org/10.3390/w14244088) - 14 Dec 2022

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**Abstract** In order to study the creep characteristics and mechanism of red-bed soft rock under the water–rock interaction, fluid–structure coupling triaxial compression tests and creep tests under stepwise loading were carried out. Furthermore, the influences of seepage pressure and stress on creep deformation, long-term [...]) [Read more.](#)

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### [Numerical Modelling of an Innovative Conical Pile Head Breakwater](#) (/2073-4441/14/24/4087)

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Water 2022, 14(24), 4087; <https://doi.org/10.3390/w14244087> (https://doi.org/10.3390/w14244087) - 14 Dec 2022

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**Abstract** When moderate wave activity at the shoreline is acceptable, pile breakwaters can serve as an alternative to conventional breakwaters. Increasing the size of the pile breakwater in the vicinity of the free surface increases the hydraulic efficiency, as most of the wave energy [...]) [Read more.](#)

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Water 2022, 14(24), 4086; <https://doi.org/10.3390/w14244086> (https://doi.org/10.3390/w14244086) - 14 Dec 2022

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**Abstract** Microplastics are regarded as vectors of hazardous contaminants due to their ability to adsorb xenobiotic chemicals. This has led to increased interest in the risk of previously neglected microplastic contaminants in the aquatic environment. Here, we assessed the possibility of transferring chemical contaminants [...]) [Read more.](#)

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**Characterizing Aqueous Cd<sup>2+</sup> Removal by Plant Biochars from Qinghai–Tibet Plateau** ([/2073-4441/14/24/4085](#))

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*Water* 2022, 14(24), 4085; <https://doi.org/10.3390/w14244085> (<https://doi.org/10.3390/w14244085>) - 14 Dec 2022

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**Abstract** Increased anthropogenic activities have caused cadmium pollution in Qinghai–Tibet Plateau, which is harmful to human health. This paper investigated aqueous Cd<sup>2+</sup> adsorption using biochar of three typical vegetation types in cold and arid areas of the Qinghai–Tibet Plateau: (i) Chinese wolfberry (GBB), [...]. [Read more.](#)

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**Bio-Organic Fertilizer Combined with Different Amendments Improves Nutrient Enhancement and Salt Leaching in Saline Soil: A Soil Column Experiment** ([/2073-4441/14/24/4084](#))

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*Water* 2022, 14(24), 4084; <https://doi.org/10.3390/w14244084> (<https://doi.org/10.3390/w14244084>) - 14 Dec 2022

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**Abstract** Salt-affected soils frequently experience leaching and desalination issues, which severely restrict plant growth and water uptake. Hence, in this experiment, four treatments including CG (no amendments addition); OF (organic fertilizer addition); OH (organic fertilizer and Hekang amendment addition); and OB (organic fertilizer and [...]). [Read more.](#)

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**The Structural Characteristics of the Virtual Water Trade Network of the China's Major Crops** ([/2073-4441/14/24/4083](#))

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**Abstract** The original intention of virtual water trade (VWT) is to help water-scarce areas adjust the crop trade structure to alleviate the water shortage problem. However, China's existing virtual water trade (VWT) must effectively alleviate the problem. This paper's structural features and stability of [...] [Read more](#).

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**Effect of Reactor Stages in Series in the Main Anoxic Section on Anoxic Phosphorus Absorption Performance of Modified A<sup>2</sup>O Process** ([/2073-4441/14/24/4082](#))

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*Water* **2022**, *14*(24), 4082; <https://doi.org/10.3390/w14244082> (<https://doi.org/10.3390/w14244082>) - 14 Dec 2022

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**Abstract** Based on the kinetics of the treatment process of the completely mixed reactor in series, this study reveals the relationship between the reactor stages and the treatment efficiency, and it was applied to the simultaneous nitrogen and phosphorus removal process. The strengthening effect [...] [Read more](#).

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**Technological Innovation in the Traditional Olive Orchard Management: Advances and Opportunities to the Northeastern Region of Portugal** ([/2073-4441/14/24/4081](#))

by [Carlos Silveira](#) (<https://sciprofiles.com/profile/583195>), [Arlindo Almeida](#) (<https://sciprofiles.com/profile/655247>) and

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*Water* **2022**, *14*(24), 4081; <https://doi.org/10.3390/w14244081> (<https://doi.org/10.3390/w14244081>) - 14 Dec 2022

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**Abstract** In Portugal, the olive orchard is the most representative agricultural crop and one of the most impactful on the national economy. Therefore, a production structure accompanying the technological advances in this field would be expected; however, such a structure has not yet been [...] [Read more](#).

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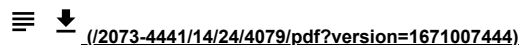
**Abstract** Algal blooms have been observed worldwide and have had a serious impact on industries that use water resources, which is a problem for people and the environment. For this reason, an algae warning system is used to count the number of cyanobacterial cells [...]. [Read more.](#)

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**Experimental Investigation of Uniaxial Compressive Strength of Distilled Water Ice at Different Growth Temperatures** (</2073-4441/14/24/4079>)

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[Zuoqin Qian](https://sciprofiles.com/profile/author/ZU56c1BWcGIHWGzemljcIFXSFpOcHvMtzNVa0hiWjRXR0RENGFPeGkyWT0=) (<https://sciprofiles.com/profile/author/ZU56c1BWcGIHWGzemljcIFXSFpOcHvMtzNVa0hiWjRXR0RENGFPeGkyWT0=>),

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*Water* 2022, 14(24), 4079; <https://doi.org/10.3390/w14244079> (<https://doi.org/10.3390/w14244079>) - 14 Dec 2022

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**Abstract** The existence of ice in nature will threaten the safety of navigation and water operations in cold regions. In order to improve the knowledge system of ice strength, the uniaxial compressive strength of distilled water ice grown at different temperatures is studied in [...]. [Read more.](#)

(This article belongs to the Special Issue **Sea, River, Lake Ice Properties and Their Applications in Practices** ([/journal/water/special\\_issues/Sea\\_River\\_Ice](/journal/water/special_issues/Sea_River_Ice)))

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**Water Temperature Evolution Driven by Solar Radiation in an Ice-Covered Lake: A Numerical Study and Observational Data** (</2073-4441/14/24/4078>)

by [Sergei Smirnov](https://sciprofiles.com/profile/1842274) (<https://sciprofiles.com/profile/1842274>), [Alexander Smirnovsky](https://sciprofiles.com/profile/1878918) (<https://sciprofiles.com/profile/1878918>),

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*Water* 2022, 14(24), 4078; <https://doi.org/10.3390/w14244078> (<https://doi.org/10.3390/w14244078>) - 14 Dec 2022

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**Abstract** How, the phenomenon of Rayleigh–Bénard convection (RBC) in ice-covered lakes has not been sufficiently studied, despite its important role in the functioning of aquatic ecosystems. There have been very few attempts to numerically simulate RBC due to the complexity of this [...]. [Read more.](#)

(This article belongs to the Special Issue **Hydrophysical Parameters and Gases in Ice-Covered Lakes** ([/journal/water/special\\_issues/ice\\_lakes](/journal/water/special_issues/ice_lakes)))



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**Uncertainty and Sensitivity Analysis of the Effective Implementation of Water Quality Improvement Programs for Citarum River, West Java, Indonesia** [\(2073-4441/14/24/4077\)](#)

by [Iwan Juwana](#) (<https://sciprofiles.com/profile/2582946>), [Nur A. Rahardyan](#) (<https://sciprofiles.com/profile/2637284>), [Didin A. Permadi](#) (<https://sciprofiles.com/profile/author/a1hiTVBzcGFUOFd6ZXo5dVJoRINSODA2NDdCUE5EVUJNV0srSGRLTGdOWT0=>) and [Arief D. Sutadian](#) (<https://sciprofiles.com/profile/author/eFNraUJqTXFIOXpYR3JXdmxuKzIGd2FtOEZkYURvcnV0VnZKSEIhNWg4VT0=>) *Water* 2022, 14(24), 4077; <https://doi.org/10.3390/w14244077> (<https://doi.org/10.3390/w14244077>) - 14 Dec 2022

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**Abstract** Pollution of rivers is a challenge for many countries. In the Citarum watershed, Indonesia, where pollution has been an emerging issue nationwide, many programs and policies have been set up. However, implementation of all the planned programs and the significance of their contributions [...] [Read more.](#)

(This article belongs to the Special Issue [Water Quality Modeling and Monitoring](#) ([/journal/water/special\\_issues/water\\_quality\\_modeling](#).)

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**Evaluation of Inundation Probability and Inundation Depth through Rainfall–Runoff Analysis** [\(2073-4441/14/24/4076\)](#)

by [Ho-Jun Keum](#) (<https://sciprofiles.com/profile/598869>), [Jong-Cheol Seo](#) (<https://sciprofiles.com/profile/1603332>) and [Yeon-Moon Choo](#) (<https://sciprofiles.com/profile/233396>) *Water* 2022, 14(24), 4076; <https://doi.org/10.3390/w14244076> (<https://doi.org/10.3390/w14244076>) - 13 Dec 2022

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**Abstract** Because of their enclosed nature, underground spaces are more vulnerable to flooding than above-ground structures. As a result, flooding disasters have the potential to cause widespread casualties. Major domestic plan manuals such as 'Waterproof Standards Plan Manual for Underground Space Flood Prevention' suggest [...] [Read more.](#)

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**A Machine Learning Method for Engineering Risk Identification of Goaf** [\(2073-4441/14/24/4075\)](#)

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Yixian Wang (<https://sciprofiles.com/profile/462735>)

Water 2022, 14(24), 4075; <https://doi.org/10.3390/w14244075> (<https://doi.org/10.3390/w14244075>) - 13 Dec 2022

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**Abstract** The risk evaluation indexes of goaf are multi-source and have complex mutual internal correlations, and there are great differences in the risk identification of goaf from different mines among the various influencing factors. This paper mainly focuses on principal component analysis (PCA) and [...]

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**Analyzing Rainfall Threshold for Shallow Landslides Using Physically Based Modeling in Rasuwa District, Nepal** (</2073-4441/14/24/4074>)

by Bin Guo (<https://sciprofiles.com/profile/author/MnpaY3hndDJQdjdqS2o4T21MS0pVZWVYUEJjUGVQZER0QXpoRWtsNEQ2WT0=>),

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Water 2022, 14(24), 4074; <https://doi.org/10.3390/w14244074> (<https://doi.org/10.3390/w14244074>) - 13 Dec 2022

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**Abstract** On 25 April 2015, an M7.8 large earthquake happened in Nepal, and 4312 landslides were triggered during or after the earthquake. The 2015 earthquake happened years ago, but the risk of rainfall-induced landslides is still high. Rainfall-induced shallow landslides threaten both human lives [...]

(This article belongs to the Special Issue **Rainfall-Induced Geological Disasters** ([/journal/water/special\\_issues/geological\\_disasters](/journal/water/special_issues/geological_disasters)))

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**Possible Factors Driving Groundwater Quality and Its Vulnerability to Land Use, Floods, and Droughts Using Hydrochemical Analysis and GIS Approaches** (</2073-4441/14/24/4073>)

by Sherif Ahmed Abu El-Magd (<https://sciprofiles.com/profile/1959002>), Hanaa Ahmed (<https://sciprofiles.com/profile/1141029>),

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Water 2022, 14(24), 4073; <https://doi.org/10.3390/w14244073> (<https://doi.org/10.3390/w14244073>) - 13 Dec 2022

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**Abstract** Land use and climate change always induce significant changes in various parameters of the hydrologic cycle (e.g., surface runoff, infiltration, evapotranspiration). The Wadi El-Assiuti downstream area in the Eastern Desert of Egypt is one of the most promising areas for development that is [...]

(This article belongs to the Special Issue **The Impact of Climate Change and Land Use on Water Resources** ([/journal/water/special\\_issues/Impact\\_Climate\\_Land\\_Water](/journal/water/special_issues/Impact_Climate_Land_Water)))

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**Sustainable Membrane Technologies for By-Product Separation of Non-Pharmaceutical Common Compounds** (/2073-4441/14/24/4072)

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*Water* **2022**, *14*(24), 4072; <https://doi.org/10.3390/w14244072> (<https://doi.org/10.3390/w14244072>) - 13 Dec 2022

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**Abstract** The Chinese pharmaceutical industry and traditional Chinese medicine (TCM) are both vital components of Chinese culture. Some traditional methods used to prepare TCMs have lost their conformity, and as a result, are producing lower-quality medicines. In this regard, the TCM sector has been [...]

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**Groundwater Vulnerability Indicator Assessment of Karst Island Water Resources: Enhancement of the Freshwater Lens Assessment Protocol** (/2073-4441/14/24/4071)

by  **Robert Michael DiFilippo** (<https://sciprofiles.com/profile/2452726>),

 **Carlos Primo David** (<https://sciprofiles.com/profile/author/U0I1cWdTZFdKcTZpRTU4MFoyVEpKaEpUaHIIR1BpNVBoTUkxdHhaMUNmWT0=>) and

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*Water* **2022**, *14*(24), 4071; <https://doi.org/10.3390/w14244071> (<https://doi.org/10.3390/w14244071>) - 13 Dec 2022

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**Abstract** Karst islands such as those found in the Philippine Archipelago present challenges for local stakeholders to manage their water resources sustainably. Anthropogenic climate change, an increasing population and changes in land use and industry have all combined to altering the water balance on [...]



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**Water Oriented City—A ‘5 Scales’ System of Blue and Green Infrastructure in Sponge Cities Supporting the Retention of the Urban Fabric** (/2073-4441/14/24/4070)

by  **Anna Zaręba** (<https://sciprofiles.com/profile/843527>),  **Alicja Krzemińska** (<https://sciprofiles.com/profile/1801439>),

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*Water* **2022**, *14*(24), 4070; <https://doi.org/10.3390/w14244070> (<https://doi.org/10.3390/w14244070>) - 13 Dec 2022

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**Abstract** The article presented methods of urban development in terms of the application of the ‘sponge city’ concept, as well as the possibility of introducing different hydro-engineering solutions into the urban fabric that allow infiltration and retention at various scales of spatial planning. The [...]

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**We use cookies on our website to ensure you get the best experience. Microplastics and Their Impacts on Organisms and Trophic Chains** (/2073-4441/14/24/4069)

by  **Jun Yan** (<https://sciprofiles.com/profile/author/aEVHK1hJTFR6M2lyRIZCTC9xNUNxRVpxQWlybFNabVdDyZNCr0dyTjJOYz0=>),

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*Water* 2022, 14(24), 4069; <https://doi.org/10.3390/w14244069> (<https://doi.org/10.3390/w14244069>) - 13 Dec 2022  
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**Abstract** Microplastic pollution is a global problem that has attracted extensive attention and has become a very hot topic in the scientific community [...] **Full article** ([/2073-4441/14/24/4069](https://doi.org/10.3390/w14244069))

(This article belongs to the Special Issue **Microplastics and Their Impacts on Organisms and Trophic Chains** ([/journal/water/special\\_issues/Microplastics\\_Impacts](https://journal/water/special_issues/Microplastics_Impacts).)

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**Bacterial Laccases as Biocatalysts for the Remediation of Environmental Toxic Pollutants: A Green and Eco-Friendly Approach—A Review** ([/2073-4441/14/24/4068](https://doi.org/10.3390/w14244068)).

by [Neha Agarwal](https://sciprofiles.com/profile/2508618) (<https://sciprofiles.com/profile/2508618>), [Vijendra Singh Solanki](https://sciprofiles.com/profile/2565367) (<https://sciprofiles.com/profile/2565367>),  
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*Water* 2022, 14(24), 4068; <https://doi.org/10.3390/w14244068> (<https://doi.org/10.3390/w14244068>) - 13 Dec 2022

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**Abstract** Biological treatment methods for the biodegradation of anthropogenic toxic pollutants are eco-friendly in nature and are powered by a variety of microbial enzymes. Green chemistry and enzymes play a crucial role in catalyzing the biodegradation of organic and inorganic pollutants including azo dyes; [...] **Read more.**

(This article belongs to the Special Issue **Emerging Materials, Concepts and Processes for Wastewater Treatment Sector for Sustainable Future** ([/journal/water/special\\_issues/sustainable\\_wastewater](https://journal/water/special_issues/sustainable_wastewater).)

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**Digestate as a Source of Nutrients: Nitrogen and Its Fractions** ([/2073-4441/14/24/4067](https://doi.org/10.3390/w14244067)).

by [Wojciech Czekala](https://sciprofiles.com/profile/954107) (<https://sciprofiles.com/profile/954107>)

*Water* 2022, 14(24), 4067; <https://doi.org/10.3390/w14244067> (<https://doi.org/10.3390/w14244067>) - 13 Dec 2022

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**Abstract** Due to fossil-fuel-limitation constraints, new energy sources are being sought. On the other hand, organic fertilizers that can be used in agriculture are increasingly being sought. One of the renewable energy sources is biogas produced from substrates large in organic matter. Apart from [...] **Read more.**

(This article belongs to the Special Issue **Water, Wastewater, Waste Management in Agriculture and Agri-Food Industry** ([/journal/water/special\\_issues/wastewater\\_waste\\_management](https://journal/water/special_issues/wastewater_waste_management).)

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**Removal Performances of Turbidity, Organics, and -N in a Modified Settling Tank with Rotating Biological Discs Used for Enhancing Drinking Water Purification** ([/2073-4441/14/24/4066](https://doi.org/10.3390/w14244066)).

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**Abstract** In this study, a modified horizontal settling tank with rotating biological discs was developed to treat slightly polluted surface water, and its performance on the simultaneous removal of turbidity, organics, and -N was investigated on a lab scale. Results show [...] [Read more](#).

(This article belongs to the Section [Wastewater Treatment and Reuse](#) (/journal/water/sections/Wastewater\_Treatment\_Reuse))

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**Investigation on Pressure Fluctuation of the Impellers of a Double-Entry Two-Stage Double Suction Centrifugal Pump** (/2073-4441/14/24/4065)

by [Hongyeyu Yan](#) (https://sciprofiles.com/profile/author/WkijSjFLSko2L0dzakNqSHp5VUFubFFRTnRXcGp4OUIXync1dThxL3Zlcz0=),

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Water 2022, 14(24), 4065; <https://doi.org/10.3390/w14244065> (https://doi.org/10.3390/w14244065) - 13 Dec 2022

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**Abstract** Double-entry two-stage double-suction centrifugal pumps with high flow rates and high heads are used in some large water supply applications. The pressure fluctuation of the impeller is a key factor influencing the vibration in centrifugal pumps. In this paper, the pump is simulated [...] [Read more](#).

(This article belongs to the Special Issue [Advancement in the Fluid Dynamics Research of Reversible Pump-Turbine](#) (/journal/water/special\_issues/Fluid\_Reversible\_Pump\_Turbine))

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**Research on the Impact of Water Conservancy Projects on Downstream Floodplain Wetlands—Taking Yimin River as an Example** (/2073-4441/14/24/4064)

by [Chunming Hu](#) (https://sciprofiles.com/profile/1349233) and

[Xi Dong](#) (https://sciprofiles.com/profile/author/UndvK1FRK2o4NVFFVmNVcnBxSTZmSzh4dDFUMDBobjlLOGNQckFZS204TT0=)

Water 2022, 14(24), 4064; <https://doi.org/10.3390/w14244064> (https://doi.org/10.3390/w14244064) - 13 Dec 2022

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**Abstract** Continued construction of reservoirs around the world promotes socio-economic development and severely affects the ecological and hydrological processes of rivers and floodplain wetlands. In this study, the Yimin River in Inner Mongolia, China, was taken as the research area. The water inundation guarantee [...] [Read more](#).

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
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### **Uranium and Fluoride Removal from Aqueous Solution Using Biochar: A Critical Review for Understanding the Role of Feedstock Types, Mechanisms, and Modification Methods** [\(/2073-4441/14/24/4063\)](#)

by  [Anjali Thakur](#) (<https://sciprofiles.com/profile/2570890>),  [Rakesh Kumar](#) (<https://sciprofiles.com/profile/1565464>) and  [Prafulla Kumar Sahoo](#) (<https://sciprofiles.com/profile/1139897>)

*Water* 2022, 14(24), 4063; <https://doi.org/10.3390/w14244063> (<https://doi.org/10.3390/w14244063>) - 13 Dec 2022



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**Abstract** Uranium (U) and fluoride (F<sup>-</sup>) are the major global geogenic contaminants in aquifers and pose serious health issues. Biochar, a potential adsorbent, has been widely applied to remediate geogenic and anthropogenic contaminants. However, there is a lack of research progress in [...]. [Read more.](#) (This article belongs to the Topic [Sustainable Environmental Technologies](#) ([/topics/Sustainable\\_Environmental\\_Technologies](/topics/Sustainable_Environmental_Technologies)))



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### **Mechanism and Control of Grout Propagation in Horizontal Holes in Fractured Rock** [\(/2073-4441/14/24/4062\)](#)

by  [Zhaoxing Liu](#) (<https://sciprofiles.com/profile/2391921>),  [Shuning Dong](#) (<https://sciprofiles.com/profile/1167806>),

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 [Hongbo Shang](#) (<https://sciprofiles.com/profile/author/S1dxMmtQcW1YcIN5cERMWFBPZXR4NngvdG53WUdkbzZ0bytuR2FSUzByaz0=>)

*Water* 2022, 14(24), 4062; <https://doi.org/10.3390/w14244062> (<https://doi.org/10.3390/w14244062>) - 12 Dec 2022

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**Abstract** It is important to control grout propagation and ensure the engineering effectiveness of the advanced regional grouting process in the Middle Ordovician limestone (MOL) aquifer. In our study, we found that the physical and mechanical properties of cement grout are affected mainly by [...]. [Read more.](#) (This article belongs to the Special Issue [The Research on Effects of Coal Mining on Groundwater Environment and System](#) ([/journal/water/special\\_issues/9PE99GY26Q](/journal/water/special_issues/9PE99GY26Q)))

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### **Application of Soil Moisture Data Assimilation in Flood Forecasting of Xun River in Hanjiang River Basin** [\(/2073-4441/14/24/4061\)](#)

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*Water* 2022, 14(24), 4061; <https://doi.org/10.3390/w14244061> (<https://doi.org/10.3390/w14244061>) - 12 Dec 2022

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**Abstract** Accurate projection of floods is of great significance to safeguard economic and social development as well as people's life and property. The development of hydrological models can improve the level of flood projection, however, the numerous uncertainties in the models limit the projection [...]. [Read more.](#) (This article belongs to the Section [Hydrology](#) (</journal/water/sections/Hydrology>))


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### **Landscape Ecological Risk Assessment and Planning Enlightenment of Songhua River Basin Based on Multi-Source Heterogeneous Data Fusion** [\(/2073-4441/14/24/4060\)](#)

by [Ying Zhao](#) (<https://sciprofiles.com/profile/author/ZzNoUk9TcmxibGtISW54YmpZcDkwTko3Mi9QN0ZMY014d0NyeUtiOWxtVT0=>), [Zhe Tao](#) (<https://sciprofiles.com/profile/2383455>), [Mengnan Wang](#) (<https://sciprofiles.com/profile/author/eWkweC9OcG9QaEwwdDh1NuTsAVeRQ0dKbTFwdliSUZ0ZkhTRUtJaVd1QT0=>), [Yuanhua Chen](#) (<https://sciprofiles.com/profile/author/MGttVVdGb1B2aGE4REpKM0pNc0ZQQTJjbUtuVDBXTDI5aUd5eEFxTGpwVT0=>), [Rui Wu](#) (<https://sciprofiles.com/profile/author/MFNsanBMSGFoUZBZSIBLL1ZUdnVYa0JhcGJyTXYxak85WXRSQ3IsZHpb0bz0=>) and [Liang Guo](#) (<https://sciprofiles.com/profile/1855894>)

*Water* 2022, 14(24), 4060; <https://doi.org/10.3390/w14244060> (<https://doi.org/10.3390/w14244060>) - 12 Dec 2022

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**Abstract** In this study, the remote sensing images of the 30 km buffer zone from Zhaoyuan to Baidu of the Songhua River, which is rich in land use types and frequent in human activities, were selected as the research object to analyze land use [...]. [Read more.](#)

(This article belongs to the Special Issue [Bio-Sustainable Membrane Technology on Wastewater Treatment and Bioenergy Recovery](#) ([/journal/water/special\\_issues/biosustainable\\_bioenergy](/journal/water/special_issues/biosustainable_bioenergy)))

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### **Failure Process Analysis of Landslide Triggered by Rainfall at Volcanic Area: Fangshan Landslide Case Study** [\(/2073-4441/14/24/4059\)](#)

by [Weiwei Gu](#) (<https://sciprofiles.com/profile/author/ME9LRExPMGh3bnAwZ3J4MXpjZTBMTDZVL2VJM1NISjMyREY2eWwxdlldqOD0=>), [Zinan Li](#) (<https://sciprofiles.com/profile/1885033>), [Cheng Lin](#) (<https://sciprofiles.com/profile/author/T1o3bkVkeKxJbERud2U0ekpuRURaakx5OFV0cVRTNUszSmwxcjJHaUtXaz0=>), [Faming Zhang](#) (<https://sciprofiles.com/profile/1902285>), [Menglong Dong](#) (<https://sciprofiles.com/profile/2458385>), [Yukun Li](#) (<https://sciprofiles.com/profile/2108351>) and [Chang Liu](#) (<https://sciprofiles.com/profile/author/M3dHqNpVdEt0Q2R4RFU0NXIHQ0IBRFBJWWJDSGYxTTNoQ2tv0tUb0dIST0=>)

*Water* 2022, 14(24), 4059; <https://doi.org/10.3390/w14244059> (<https://doi.org/10.3390/w14244059>) - 12 Dec 2022

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**Abstract** The Fangshan landslide was a rainfall-induced landslide that occurred in a volcanic area in the Fangshan scenic spot, Nanjing, Jiangsu, China. On 25 October 2016, after approximately 10 days of continuous rainfall, a shallow landslide rapidly developed, which triggered slow movement of deep [...]. [Read more.](#)

(This article belongs to the Special Issue [Rainfall-Induced Geological Disasters](#) ([/journal/water/special\\_issues/geological\\_disasters](/journal/water/special_issues/geological_disasters)))

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### Genesis of Significance of Carbonated Thermal Water Springs in Xining Basin, China (/2073-4441/14/24/4058)

by [Yude Lei](https://sciprofiles.com/profile/author/RWhldndRb2x0OGZuQXNKV3ZkOGtEcklxcE53YXFHZUU1eFpuVzIIITFNmZz0=) (https://sciprofiles.com/profile/author/RWhldndRb2x0OGZuQXNKV3ZkOGtEcklxcE53YXFHZUU1eFpuVzIIITFNmZz0=),

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Water 2022, 14(24), 4058; <https://doi.org/10.3390/w14244058> (https://doi.org/10.3390/w14244058) - 12 Dec 2022

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**Abstract** There are 30 carbonate hot springs in Yaoshuitan geothermal field, Xining Basin, China, with a temperature of 18~41.5 °C; and there are 10 carbonate hot springs in Qijiachuan geothermal field, with a temperature of 10~19.5 °C. Both geothermal fields are carbonate hot springs [...]. [Read more.](#) (This article belongs to the Special Issue [Hydrochemical Characteristics of Geothermal Water \(/journal/water/special\\_issues/7J684E0VM5\)](#).)

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### Temporal–Spatial Variability of Dissolved Carbon in the Tributary Streams of the Lower Yangtze River Basin (/2073-4441/14/24/4057)

by [Ji-Fa Cui](https://sciprofiles.com/profile/author/L29i1hLSEIoME0rVjJwMWswaVBGQT09) (https://sciprofiles.com/profile/author/L29i1hLSEIoME0rVjJwMWswaVBGQT09),

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Water 2022, 14(24), 4057; <https://doi.org/10.3390/w14244057> (https://doi.org/10.3390/w14244057) - 12 Dec 2022

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**Abstract** Dissolved carbon has been widely investigated in natural rivers worldwide. However, it has been rarely studied in riverine system of farming regions, where small streams have been usually modified by a water gate and flood levee. This study was conducted to investigate dissolved [...]. [Read more.](#) (This article belongs to the Section [Water Quality and Contamination \(/journal/water/sections/Water\\_Quality\\_Contamination\)](#))

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### A Dilemma between Flood and Drought Management: Case Study of the Upper Chao Phraya Flood-Prone Area in Thailand (/2073-4441/14/24/4056)

by [Weerayuth Pratoomchai](https://sciprofiles.com/profile/2534092) (https://sciprofiles.com/profile/2534092), [Chaiwat Ekkawatpanit](https://sciprofiles.com/profile/664025) (https://sciprofiles.com/profile/664025),

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**Abstract** Floods are the greatest natural disaster in Thailand, but they are an important part of recharging the water volume for groundwater resources. This paper focused on evaluating and discussing the relationship between flood magnitudes and flood management impacting groundwater storage in the Upper [...]. [Accept \(accept cookies\)](#) Back to top



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**Influence of Livelihood Capital of Rural Reservoir Resettled Households on the Choice of Livelihood Strategies in China** ([/2073-4441/14/24/4055](#))

by [Jing Wu](#) (<https://sciprofiles.com/profile/author/L25CvEtFdmPNL3hPc2Z0V0hML3NLQkxHV01nL1I2TEdMS010UnhSNEI0UT0=>), [Shaojun Chen](#) (<https://sciprofiles.com/profile/author/bXFhUHhzaDhpVzNYd0wySWRpbWRwdmrdTihIV0p1a1NuSE1JVUR0UFJIST0=>), [Kexin Zhou](#) (<https://sciprofiles.com/profile/author/M3NWRmhVK2JlclhQ1BSRHZRQTMwYzICRnpJSkVtVnFDSGJNcHhQak8yMD0=>) and [Xinxin Chen](#) (<https://sciprofiles.com/profile/author/Zmw4ZXRtbk5YTFIFaVdYVTRscGcrVFJEUzJWSTMyNHA0d21CYU84OG51Zz0=>)

*Water* **2022**, *14*(24), 4055; <https://doi.org/10.3390/w14244055> (<https://doi.org/10.3390/w14244055>) - 12 Dec 2022

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**Abstract** The livelihood capital of resettled households is an important factor that affects their choice of livelihood strategies. The relationship between the two can help to transform the livelihood behavior of resettled households aiming to achieve sustainable livelihoods. Based on survey data of livelihoods [...] [Read more.](#)

(This article belongs to the Section [Water Resources Management, Policy and Governance](#) ([/journal/water/sections/Water\\_Resources\\_Management\\_Policy\\_Governance](#)))

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**Flow Boiling Heat Transfer Intensification Due to Inner Surface Modification in Circular Mini-Channel** ([/2073-4441/14/24/4054](#))

by [Aleksandr V. Belyaev](#) (<https://sciprofiles.com/profile/1716717>), [Alexey V. Dedov](#) (<https://sciprofiles.com/profile/author/Y0VtTUM0d1hYb3VDVnhPNTIWN0JLdz09>), [Nikita E. Sidel'nikov](#) (<https://sciprofiles.com/profile/author/c2J4b2IUeGlsTW1MR3BCcE9Sb1NJeDIFWk53Y0dhYyYtobzB2STIFcTFrND0=>), [Peixue Jiang](#) (<https://sciprofiles.com/profile/author/cEtHcHJ0MkoxUGxxbE4vU0pOSVZHc3ZlBIRUaFFtNFZDdU4vMIhGZVBIOD0=>), [Aleksander N. Varava](#) (<https://sciprofiles.com/profile/author/VcTctVVmZkVIRHFkS3VmL01QazBINFhoR01tcWRtVWdPdIBITG9NYTZpdz0=>) and [Ruina Xu](#) (<https://sciprofiles.com/profile/682599>)

*Water* **2022**, *14*(24), 4054; <https://doi.org/10.3390/w14244054> (<https://doi.org/10.3390/w14244054>) - 12 Dec 2022

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**Abstract** This work aimed to study the intensification of flow boiling heat transfer and critical heat flux (CHF) under conditions of highly reduced pressures due to a modification of the inner wall surface of a mini-channel. Such research is relevant to the growing need [...] [Read more.](#)

(This article belongs to the Special Issue [Hydrodynamics and Heat Mass Transfer in Two-Phase Dispersed Flows in Pipes or Ducts](#) ([/journal/water/special\\_issues/JL55W26E61](#).)

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**Microplastic Accumulation and Degradation in Environment via Biotechnological Approaches** ([/2073-4441/14/24/4053](#))

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**Abstract** The extensive use of plastics in daily life has led to the generation of huge amounts of plastic waste, which causes an enormous burden on the environment. More than half of the plastic waste ends up in the landfill, and about one-fifth of [...] [Read more.](#)

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**A Study on the Drivers of Remote Sensing Ecological Index of Aksu Oasis from the Perspective of Spatial Differentiation (/2073-4441/14/24/4052)**

by [Chao Ling \(https://sciprofiles.com/profile/2558276\)](https://sciprofiles.com/profile/2558276), [Guangpeng Zhang \(https://sciprofiles.com/profile/2558899\)](https://sciprofiles.com/profile/2558899),

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[Hongbo Ling \(https://sciprofiles.com/profile/1225397\)](https://sciprofiles.com/profile/1225397)

Water 2022, 14(24), 4052; <https://doi.org/10.3390/w14244052> (https://doi.org/10.3390/w14244052) - 12 Dec 2022

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**Abstract** The overexploitation and misuse of natural resources in oases have put a significant strain on the ecosystem's fragility. Therefore, a rigorous study of the ecological environment's quality is required to assure the sustainability of oasis growth. The GEE platform has the features of timeliness [...] [Read more.](#)

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**Characteristics and Mechanism of Local Scour Reduction around Pier Using Permeable Sacrificial Pile in Clear Water (/2073-4441/14/24/4051)**

by [Hongliang Qi \(https://sciprofiles.com/profile/1712132\)](https://sciprofiles.com/profile/1712132), [Guishan Chen \(https://sciprofiles.com/profile/2547421\)](https://sciprofiles.com/profile/2547421),

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[Weiping Tian \(https://sciprofiles.com/profile/421603\)](https://sciprofiles.com/profile/421603) and

[Jiachun Li \(https://sciprofiles.com/profile/author/YXhITE0xbG5WMGFxeVRCR3ITNDUjYRzd1OHFJbVRreWYyS0o2SmxPV2Jzbz0=\)](https://sciprofiles.com/profile/author/YXhITE0xbG5WMGFxeVRCR3ITNDUjYRzd1OHFJbVRreWYyS0o2SmxPV2Jzbz0=)

Water 2022, 14(24), 4051; <https://doi.org/10.3390/w14244051> (https://doi.org/10.3390/w14244051) - 12 Dec 2022

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**Abstract** To improve the local scour protection of the pier using solid sacrificial piles, a kind of permeable sacrificial pile filled with stones is put forward in this study. Four influencing factors, including the size of the filling gravel of the permeable sacrificial pile, [...] [Read more.](#)

(This article belongs to the Special Issue [Sediment Transport at Bridges and River Training Structures \(/journal/water/special\\_issues/Bridges\\_River.\)](#))

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### **Cross-Priming Approach Induced Beneficial Metabolic Adjustments and Repair Processes during Subsequent Drought in Olive** [\(/2073-4441/14/24/4050\)](#)

by  [Mariem Ben Abdallah](#) (<https://sciprofiles.com/profile/author/aThDZ3p4MERXUkovWkJISW1leEZIMmlGWXMxd2N6QXpEVIAXa3F1Vk5GND0=>),  [Kawther Methenni](#) (<https://sciprofiles.com/profile/author/YVZXN1IGRnNUZVZ6cW5GUWINek5qYVWsa0RMNzJ5VVhYZIFQSTdRYUxWTT0=>),  [Wael Taamalli](#) (<https://sciprofiles.com/profile/1417949>),  [Kamel Hessini](#) (<https://sciprofiles.com/profile/1468122>) and  [Nabil Ben Youssef](#) (<https://sciprofiles.com/profile/author/QndhSXdmnbBmM0tHQ2YyR2RoSVhIQWhIZIJWZTk2ZnNma1BkaWc1b0ZKcz0=>). *Water* **2022**, *14*(24), 4050; <https://doi.org/10.3390/w14244050> (<https://doi.org/10.3390/w14244050>) - 12 Dec 2022

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**Abstract** Cross-tolerance to abiotic stresses is a typical phenomenon in plants which occurs when exposure to one form of stress confers tolerance to a variety of stresses. Our study aims at investigating whether salinity priming could induce, after a recovery period (2 months), drought [...] [Read more](#). (This article belongs to the Section **Water and Climate Change** ([/journal/water/sections/water\\_climate\\_change](#)))





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### **Simultaneous Removal of Metal Ions from Wastewater by a Greener Approach** [\(/2073-4441/14/24/4049\)](#)

by  [Lubna A. Ibrahim](#) (<https://sciprofiles.com/profile/1468225>),  [Marwa E. El-Sesy](#) (<https://sciprofiles.com/profile/2583628>),  [ElSayed ElBastamy ElSayed](#) (<https://sciprofiles.com/profile/1545838>),  [Martina Zelenakova](#) (<https://sciprofiles.com/profile/258499>),  [Maria Hlinkova](#) (<https://sciprofiles.com/profile/author/Y3pnbGRQYmVTNWs1UmYxc0hIQWF2MVBGRmoyV0ZoMGxmSih3cmtveXh4cz0=>),  [Essam Sh. Mohamed](#) (<https://sciprofiles.com/profile/author/RGtWwllwT1hoaTBneE9aUGMzQk1zQVlqUWJwWWpiThh6VDhDTmR5ZEIWMDD0=>) and  [Mohamed Abu-Hashim](#) (<https://sciprofiles.com/profile/718617>). *Water* **2022**, *14*(24), 4049; <https://doi.org/10.3390/w14244049> (<https://doi.org/10.3390/w14244049>) - 12 Dec 2022

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**Abstract** The examination of the performance of raw and immobilized *S. (Saccharomyces) cerevisiae* in the simultaneous abatement of metal ions from wastewater effluent is the focal point of this article. The optimal storage time for raw and immobilized *S. cerevisiae*, during which they [...] [Read more](#). (This article belongs to the Special Issue **Water Supply System (WSS) Reliability, Safety and Risk Modelling & Assessment** ([/journal/water/special\\_issues/water\\_supply\\_system\\_wss](#)))

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### **Magnetized Saline Water Irrigation Enhances Soil Chemical and Physical Properties** (/2073-4441/14/24/4048)

by  **Ahmed Elsayed Abdelghany** (<https://sciprofiles.com/profile/2304650>),  **Ahmed I. Abdo** (<https://sciprofiles.com/profile/1906037>),  
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 **Kamel Mohamed Eltohamy** (<https://sciprofiles.com/profile/author/M1Y3cXMvclBZQ0g0UXRFNnZKbS9PM21iYkx5bUhPamVsZFJvZfViWE9vZz0=>),  
 **Jiabei Li** (<https://sciprofiles.com/profile/author/Z3REMHILR2dMVVFaVDFaQzJSNm01SmdIV2x6VU1uV0Q0VUxNeFFOOU1acz0=>),  
 **Youzhen Xiang** (<https://sciprofiles.com/profile/2171551>) and  **Fucang Zhang** (<https://sciprofiles.com/profile/550494>)  
*Water* 2022, 14(24), 4048; <https://doi.org/10.3390/w14244048> (<https://doi.org/10.3390/w14244048>) - 12 Dec 2022  
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**Abstract** Due to rapid population growth and pressure on water resources, it is necessary to use economic and non-traditional techniques for irrigation. One of these techniques is the use of salt water after treatment with a magnetic force. A simulation experiment was conducted with [...]. [Read more.](#)  
(This article belongs to the Special Issue **Green and Efficient Utilization of Agricultural Water** ([/journal/water/special\\_issues/Accurate\\_Irrigation](/journal/water/special_issues/Accurate_Irrigation)))




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### **CO<sub>2</sub> Addition and Semicontinuous Feed Regime in Shaded HRAP—Pathogen Removal Performance** (/2073-4441/14/24/4047)

by  **Graziele Ruas** (<https://sciprofiles.com/profile/1977878>),  **Sarah Farias Lacerda** (<https://sciprofiles.com/profile/2641051>),  
 **Maria Alice Nantes** (<https://sciprofiles.com/profile/author/T0sxZWzWTEFJaHEzZU5KbVg4NIMvSUsrdDYzUmdkaW5sU0gvVHp4QWdNaz0=>),  
 **Mayara Leite Serejo** (<https://sciprofiles.com/profile/author/OVUxSjBJVWJEL2YrbTVybWMvcGNawJNZUIFmVEF6d0N0dzg5R0ZYy0xzVT0=>),  
 **Gustavo Henrique Ribeiro da Silva** (<https://sciprofiles.com/profile/1368379>) and  
 **Marc Árpád Boncz** (<https://sciprofiles.com/profile/author/Ni92am5mWWRpNldNeWwvKzhRbThNbGpoTkYyZTJXYURtVJE5ZmNZdINJYz0=>)  
*Water* 2022, 14(24), 4047; <https://doi.org/10.3390/w14244047> (<https://doi.org/10.3390/w14244047>) - 12 Dec 2022  
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**Abstract** The influence of CO<sub>2</sub> addition and feeding regime (continuous versus semicontinuous) on the removal of *Pseudomonas aeruginosa*, *Clostridium perfringens*, *Staphylococcus*, *Enterococcus faecalis*, and *Escherichia coli* (*E. coli*) from three shaded high-rate algal ponds (HRAPs) treating raw sewage (RS) [...]. [Read more.](#)  
(This article belongs to the Special Issue **Advances in Aerobic and Anaerobic Wastewater and Sludge Treatment and Recovery** ([/journal/water/special\\_issues/aerobic\\_anaerobic\\_treatment](/journal/water/special_issues/aerobic_anaerobic_treatment)))











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### **Contaminant Removal from Wastewater by Microalgal Photobioreactors and Modeling by Artificial Neural Network** (/2073-4441/14/24/4046)

by  **Amin Mojiri** (<https://sciprofiles.com/profile/340695>),  **Noriatsu Ozaki** (<https://sciprofiles.com/profile/1878964>),  
 **Reza Andasht Kazeroon** (<https://sciprofiles.com/profile/1899941>),  **Shahabaldin Rezania** (<https://sciprofiles.com/profile/270509>),  
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 **Akiyoshi Ohashi** (<https://sciprofiles.com/profile/author/RkxQ3V6d05YaVRheWpmczdOMmdiRnJISmtlBIRpZfVGYzIwdFh1K3N0ND0=>),  
 **Tomonori Kindaichi** (<https://sciprofiles.com/profile/435609>) and  **John L. Zhou** (<https://sciprofiles.com/profile/1195710>)  
*Water* 2022, 14(24), 4046; <https://doi.org/10.3390/w14244046> (<https://doi.org/10.3390/w14244046>) - 12 Dec 2022

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**Abstract** The effect of removing total ammonia nitrogen (TAN), chemical oxygen demand (COD), caffeine (CAF), and *N,N*-diethyl-*m*-toluamide (DEET) from synthetic wastewater was studied. *Chlorella vulgaris* achieved maximum removal of 62.2% TAN, 52.8% COD, 62.7% CAF, and 51.8% DEET. [...]. [Read more.](#)

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**Development of Technology for Identification of Climate Patterns during Floods Using Global Climate Model Data with Convolutional Neural Networks** ([/2073-4441/14/24/4045](#))

by [Jaewon Jung](#) (<https://sciprofiles.com/profile/2128568>) and [Heechan Han](#) (<https://sciprofiles.com/profile/2520057>)

*Water* **2022**, *14*(24), 4045; <https://doi.org/10.3390/w14244045> (<https://doi.org/10.3390/w14244045>) - 12 Dec 2022

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**Abstract** Given the increasing climate variability, it is becoming difficult to predict flooding events. We may be able to manage or even prevent floods if detecting global climate patterns, which affect flood occurrence, and using them to make predictions are possible. In this study, [...] [Read more](#).

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**A Paleolimnological Perspective on Arctic Mountain Lake Pollution** ([/2073-4441/14/24/4044](#))

by [Vladimir Dauvalter](#) (<https://sciprofiles.com/profile/1053005>), [Zakhar Slukovskii](#) (<https://sciprofiles.com/profile/984698>), [Dmitry Denisov](#) (<https://sciprofiles.com/profile/author/aGFSemhYblRmdFA0VXI4ejIzeDI1YUNOdGJaWWQ3YVZpTVBjN29pU2JPaz0=>) and [Alina Guzeva](#) (<https://sciprofiles.com/profile/1028753>)

*Water* **2022**, *14*(24), 4044; <https://doi.org/10.3390/w14244044> (<https://doi.org/10.3390/w14244044>) - 11 Dec 2022

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**Abstract** The chemical composition of sediments from the Arctic mountain Lake Bolshoy Vudjavr, situated in the western part of the Russian Arctic zone, was studied. The lake has been under intense anthropogenic load for more than 90 years since the development of the richest [...] [Read more](#).

(This article belongs to the Special Issue [Geochemistry of Water and Sediment III](#) ([/journal/water/special\\_issues/2X4E72W5WM](#)))

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**Salinity Shapes the Microbial Communities in Surface Sediments of Salt Lakes on the Tibetan Plateau, China** ([/2073-4441/14/24/4043](#))

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by [Yuan Yuan He](https://sciprofiles.com/profile/author/eHJDbFp0dTRxWUMyYXgwWng4VVZQVGRJbHNhK0JBYm9oaG1xdUFMU3NWYz0=) (<https://sciprofiles.com/profile/author/eHJDbFp0dTRxWUMyYXgwWng4VVZQVGRJbHNhK0JBYm9oaG1xdUFMU3NWYz0=>), [Lele He](https://sciprofiles.com/profile/author/Y2drYzFGbU12aTdkYJtbFk4RIBpRmtDWRjT25rRVF0U3Q3ejgrZ0YzUT0=) (<https://sciprofiles.com/profile/author/Y2drYzFGbU12aTdkYJtbFk4RIBpRmtDWRjT25rRVF0U3Q3ejgrZ0YzUT0=>), [Zhe Wang](https://sciprofiles.com/profile/author/QmlBNVNNMHZRM3RaMkhUmdpY1NEUT09) (<https://sciprofiles.com/profile/author/QmlBNVNNMHZRM3RaMkhUmdpY1NEUT09>), [Ting Liang](https://sciprofiles.com/profile/author/TWd6YlhWRGNiNkhVbU9PNW5abkJQUjFDeFJiN09kekRmbFIKYjFqQ05pOD0=) (<https://sciprofiles.com/profile/author/TWd6YlhWRGNiNkhVbU9PNW5abkJQUjFDeFJiN09kekRmbFIKYjFqQ05pOD0=>), [Shichun Sun](https://sciprofiles.com/profile/1284303) (<https://sciprofiles.com/profile/1284303>) and [Xiaoshou Liu](https://sciprofiles.com/profile/1827462) (<https://sciprofiles.com/profile/1827462>)  
*Water* 2022, 14(24), 4043; <https://doi.org/10.3390/w14244043> (<https://doi.org/10.3390/w14244043>) - 11 Dec 2022  
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**Abstract** The extreme geographical and climatic conditions of the Tibetan Plateau result in lakes spanning a diverse range of environmental conditions. Studying microbial response to extreme environmental conditions is important for understanding their adaptation and evolution in the natural environment. In this study, the [...] [Read more](#).

(This article belongs to the Special Issue [Conserving Biodiversity in Aquatic Ecosystems: Challenges and Solutions](#) ([/journal/water/special\\_issues/aquatic\\_ecosystem\\_biodiversity](#).)

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### [Water Reservoirs in Plans to Improve Navigability of the Lower Section of the Vistula](#) ([/2073-4441/14/24/4042](#))


by [Łukasz Pieron](https://sciprofiles.com/profile/1932079) (<https://sciprofiles.com/profile/1932079>), [Krzysztof Woś](https://sciprofiles.com/profile/author/N0paYnJ4R2NTdzE1bEVJN0tRRGdvRzI3ZTF5Wk1OTDBYzTI6dFIDcFZYTT0=) (<https://sciprofiles.com/profile/author/N0paYnJ4R2NTdzE1bEVJN0tRRGdvRzI3ZTF5Wk1OTDBYzTI6dFIDcFZYTT0=>) and [Krzysztof Wrzosek](https://sciprofiles.com/profile/2078689) (<https://sciprofiles.com/profile/2078689>)  
*Water* 2022, 14(24), 4042; <https://doi.org/10.3390/w14244042> (<https://doi.org/10.3390/w14244042>) - 11 Dec 2022  
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**Abstract** Retention reservoirs are one of the basic elements of water management. Multifunctional, they are used for flood protection, drought prevention and other purposes. Water reservoirs can also play a fundamental role in improving navigability on the lower section of the Vistula River from [...] [Read more](#).  
(This article belongs to the Special Issue [New Challenges in the Planning, Design, Construction and Operation of Reservoirs in the Context of Climate Change](#) ([/journal/water/special\\_issues/Design\\_Construction\\_Operation\\_Reservoirs](#).)

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### [Genesis Mechanisms of Geothermal Resources in Mangkang Geothermal Field, Tibet, China: Evidence from Hydrochemical Characteristics of Geothermal Water](#) ([/2073-4441/14/24/4041](#))

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*Water* 2022, 14(24), 4041; <https://doi.org/10.3390/w14244041> (<https://doi.org/10.3390/w14244041>) - 11 Dec 2022  
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**Abstract** The Mangkang geothermal field, distributed in the Mediterranean–Himalayas geothermal belt, hosts abundant hot springs whose geneses remain unclear. To determine the hydrochemical characteristics, reservoir temperature, circulation and recharge depths, and water–rock interactions of the geothermal water in the geothermal field, this study analyzed [...] [Read more](#).

(This article belongs to the Special Issue [Hydrochemical Characteristics of Geothermal Water](#) ([/journal/water/special\\_issues/7J684E0VM5](#)))

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### Assessment of Chambal River Water Quality Parameters: A MATLAB Simulation Analysis ([/2073-4441/14/24/4040](#))

by [Mukesh Kumar Gupta](#) (<https://sciprofiles.com/profile/1061331>), [Rahul Kumar](#) (<https://sciprofiles.com/profile/2475589>), [M. K. Banerjee](#) (<https://sciprofiles.com/profile/author/RTNwZGINRjVKRFc2WihlQUxZb0o4MzZGclpHU2pPc0UzeEdjMnRXaGpvbz0=>), [Naveen Kumar Gupta](#) (<https://sciprofiles.com/profile/2071691>), [Tabish Alam](#) (<https://sciprofiles.com/profile/1227995>), [Sayed M. Eldin](#) (<https://sciprofiles.com/profile/author/UXI6T20zU3MxSXzP2U2RleWdSUHFFdFQV1Y5THd0Y2xpSU9OT2x6Y0pMST0=>) and [Mohd Yawar Ali Khan](#) (<https://sciprofiles.com/profile/1067292>)

*Water* 2022, 14(24), 4040; <https://doi.org/10.3390/w14244040> (<https://doi.org/10.3390/w14244040>) - 11 Dec 2022




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**Abstract** In this research work, environmental monitoring processes and assessments are carried out by the modeling and analysis of the water quality of the Chambal River in the state of Rajasthan. Various samples were collected from different locations along the course of the river [...]. [Read more.](#) (This article belongs to the Special Issue **Sustainable Water Futures: Climate, Community and Circular Economy** ([/journal/water/special\\_issues/Water\\_Futures](#).)

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### The Chemically Modified Leaves of *Pteris vittata* as Efficient Adsorbent for Zinc (II) Removal from Aqueous Solution ([/2073-4441/14/24/4039](#))

by [Qaiser Khan](#) (<https://sciprofiles.com/profile/author/TzZkcTIWdy9qZEYwUGFoVIVEbC85RIJtG1nMVhEendQUVd6VWsxG5nQT0=>), [Muhammad Zahoor](#) (<https://sciprofiles.com/profile/75710>), [Syed Muhammad Salman](#) (<https://sciprofiles.com/profile/author/WCtleHgzNkxNMkp3ZUNEcDJBVUNYbjZjcXdRU2xNL2tnRGpjZnk4aG91OD0=>), [Muhammad Wahab](#) (<https://sciprofiles.com/profile/author/SIISR1RHdEk0dIgxVnl4d1pWb2dralhPWkJPrcTnazEwOWhuYUIBQ3Jrbz0=>), [Muhammad Talha](#) (<https://sciprofiles.com/profile/2339200>), [Abdul Waheed Kamran](#) (<https://sciprofiles.com/profile/author/TXV5SEd4NnrRTVQTHR0bFRWd2VsTEt4TUx3TWJ2MVVtSDYxT0FZZ0hvRT0=>), [Yousaf Khan](#) (<https://sciprofiles.com/profile/author/UctVREx5SnFvQW5zcG9CS0Y5TIJ5T25Rb2FsNmhmaHVITHdRSXI4MIVHbz0=>), [Riaz Ullah](#) (<https://sciprofiles.com/profile/424473>), [Essam A. Ali](#) (<https://sciprofiles.com/profile/711036>) and [Abdul Bari Shah](#) (<https://sciprofiles.com/profile/1067590>)

*Water* 2022, 14(24), 4039; <https://doi.org/10.3390/w14244039> (<https://doi.org/10.3390/w14244039>) - 11 Dec 2022



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**Abstract** High concentrations of zinc along with other metals are released by steel mills, and this has a number of negative effects on organism health; most notably, neurological symptoms have been recorded with a high risk of brain atrophy. In the current study, Zn [...]. [Read more.](#) (This article belongs to the Special Issue **Recent Advances in Bioreactors and Heavy Metals Removal/Recovery during Waste Post-treatment** ([/journal/water/special\\_issues/wastewater\\_heavymetals](#).)

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**Abstract** Establishment of a watershed ecological compensation mechanism between multiple subjects is an effective means to realize the collaborative governance of water pollution and maintain the security of water ecology. This paper breaks through the conventional upstream and downstream perspectives of watershed ecological compensation [...]. [Read more.](#)

(This article belongs to the Special Issue [Yellow River Basin Management under Pressure: Present State, Restoration and Protection II](#) (/journal/water/special\_issues/1YN8Z5NO9E.))


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**Effects of *Bacillus pumilus* BP-171 and Carbon Sources on the Growth Performance of Shrimp, Water Quality and Bacterial Community in *Penaeus vannamei* Culture System** (/2073-4441/14/24/4037)


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*Water* 2022, 14(24), 4037; <https://doi.org/10.3390/w14244037> (https://doi.org/10.3390/w14244037) - 10 Dec 2022

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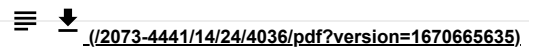
**Abstract** A strain of *Bacillus pumilus* BP-171 with the ability of heterotrophic nitrification-aerobic denitrification was isolated from a shrimp culture pond and showed good denitrification ability under laboratory conditions. In order to investigate the effects of strain BP-171 and its combinations with different carbon [...]. [Read more.](#)

(This article belongs to the Special Issue [Advances in Aquaculture Ecology Research](#) (/journal/water/special\_issues/Aquaculture\_Ecology.))

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**Ethohydraulic Experiments Investigating Retention Rates of an Electrified Bar Rack** (/2073-4441/14/24/4036)

by  [Jonas Haug](https://sciprofiles.com/profile/1981269) (https://sciprofiles.com/profile/1981269),

 [Calvin Frees](https://sciprofiles.com/profile/author/UVo2WCtVmEvRkZ2aIZMWGhDSWZHckhMTHowdHhNMFV6dVNPQjJTanZHTT0=) (https://sciprofiles.com/profile/author/UVo2WCtVmEvRkZ2aIZMWGhDSWZHckhMTHowdHhNMFV6dVNPQjJTanZHTT0=),

 [Barbara Brinkmeier](https://sciprofiles.com/profile/author/WjNuOGhCZVZNbUxaVTFjRE1CQ1FoUWdIR25uTFZIQ1gzeWlrbnJSY1IKVT0=) (https://sciprofiles.com/profile/author/WjNuOGhCZVZNbUxaVTFjRE1CQ1FoUWdIR25uTFZIQ1gzeWlrbnJSY1IKVT0=) and

 [Markus Aufleger](https://sciprofiles.com/profile/1679625) (https://sciprofiles.com/profile/1679625)

*Water* 2022, 14(24), 4036; <https://doi.org/10.3390/w14244036> (https://doi.org/10.3390/w14244036) - 10 Dec 2022

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**Abstract** Bar racks at water intakes of hydropower plants serve mainly to protect the turbines from floating debris. Additionally, they can be utilized to protect downstream migrating fish in order to prevent a potentially harmful turbine passage. The Bar Rack FishProtector consists of a [...]. [Read more.](#)

(This article belongs to the Special Issue [Fish Passage at Hydropower Dams 2.0](#) (/journal/water/special\_issues/fish\_passage\_hydropower\_dam\_II.))

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### **Variability of the Carbon Isotope Composition of Peat-Forming Plants during the Biochemical Transformation (/2073-4441/14/24/4035)**

by  [Evgeniya Golovatskaya \(https://sciprofiles.com/profile/1105777\)](https://sciprofiles.com/profile/1105777),

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*Water* 2022, 14(24), 4035; <https://doi.org/10.3390/w14244035> (<https://doi.org/10.3390/w14244035>) - 10 Dec 2022

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**Abstract** In this study, we describe the variation in  $\delta^{13}\text{C}$  value in the litter of two species of peat-forming plants: *Sphagnum fuscum* and *Eriophorum vaginatum*, during 3 years of field decomposition in oligotrophic bog ecosystems drained for the purpose of forest melioration [...]. [Read more.](#)

(This article belongs to the Special Issue **Climate Change and Anthropogenic Impacts on Wetland Ecosystems in Siberia: Past, Present, and Future** ([/journal/water/special\\_issues/wetlands\\_siberia](/journal/water/special_issues/wetlands_siberia)))



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### **Start-Up Evaluation of a Full-Scale Wastewater Treatment Plant Consisting of a UASB Reactor Followed by Activated Sludge (/2073-4441/14/24/4034)**

by  [Jaime Díaz-Gómez \(https://sciprofiles.com/profile/1247795\)](https://sciprofiles.com/profile/1247795),  [Andrea Pérez-Vidal \(https://sciprofiles.com/profile/1217670\)](https://sciprofiles.com/profile/1217670),

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*Water* 2022, 14(24), 4034; <https://doi.org/10.3390/w14244034> (<https://doi.org/10.3390/w14244034>) - 10 Dec 2022

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**Abstract** UASB (upflow anaerobic sludge blanket) reactors have been recognized as a viable option for sewage treatment. However, in order to improve the UASB effluent quality, some type of post-treatment must be implemented. The aims of this study were (i) to establish a start-up [...]. [Read more.](#)

(This article belongs to the Special Issue **Water Quality Engineering and Wastewater Treatment II** ([/journal/water/special\\_issues/Wastewater\\_Treatment\\_Quality](/journal/water/special_issues/Wastewater_Treatment_Quality)))

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### **Application of the Human Viral Surrogate Pepper Mild Mottle Virus for Wastewater Fecal Pollution Management (/2073-4441/14/24/4033)**

by  [Khalid Maniah \(https://sciprofiles.com/profile/author/MS95R1pXdUFYUWZaQWk1bXpQNXNKAudhM1VSenVuTEJKNkw0RINyD29pQT0=\)](https://sciprofiles.com/profile/author/MS95R1pXdUFYUWZaQWk1bXpQNXNKAudhM1VSenVuTEJKNkw0RINyD29pQT0=),

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*Water* 2022, 14(24), 4033; <https://doi.org/10.3390/w14244033> (<https://doi.org/10.3390/w14244033>) - 10 Dec 2022

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**Abstract** Global water scarcity has led to significant dependence on reclaimed or recycled water for potable uses. Effluents arising from human and animal gut microbiomes highly influence water quality. Wastewater pollution is, therefore, frequently monitored using bacterial indicators (BI). However, threats to public health [...] [Read more](#).

(This article belongs to the Special Issue [Microbial Risk Assessment for Recreational Waters \(/journal/water/special\\_issues/microbial\\_risk\\_waters/\)](#))

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**Molecular Responses Mechanism of *Synechocystis* sp. PCC 6803 to Cadmium Stress (/2073-4441/14/24/4032)**

by [Gang Ruan \(https://sciprofiles.com/profile/2574148\)](https://sciprofiles.com/profile/2574148), [Wujuan Mi \(https://sciprofiles.com/profile/2599379\)](https://sciprofiles.com/profile/2599379), [Xuwang Yin \(https://sciprofiles.com/profile/2527071\)](https://sciprofiles.com/profile/2527071), [Gaofei Song \(https://sciprofiles.com/profile/2547162\)](https://sciprofiles.com/profile/2547162), and [Yonghong Bi \(https://sciprofiles.com/profile/100217\)](https://sciprofiles.com/profile/100217)

*Water* 2022, 14(24), 4032; <https://doi.org/10.3390/w14244032> (<https://doi.org/10.3390/w14244032>) - 10 Dec 2022

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**Abstract** Cadmium is one of the major heavy metal pollutants in the environment. However, the toxicity targets and response mechanisms in photosynthetic organisms to cadmium are lacking. This study explored the physiological response of *Synechocystis* sp. PCC 6803 to cadmium stress; the toxicity targets [...] [Read more](#).

(This article belongs to the Special Issue [Water Pollution and Its Impact on Human Health \(/journal/water/special\\_issues/water\\_pollution\\_health/\)](#))

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**Hydrological Modelling and Climate Adaptation under Changing Climate: A Review with a Focus in Sub-Saharan Africa (/2073-4441/14/24/4031)**

by [Vincent Dzulani Banda \(https://sciprofiles.com/profile/2369805\)](https://sciprofiles.com/profile/2369805), [Rimuka Bloodless Dzwauro \(https://sciprofiles.com/profile/author/N1VreU5ucEFCWTVFaTItT1oxc0IGZUcrRTQrMTVHMIZIU0JhTDA10WlvVT0=\)](https://sciprofiles.com/profile/author/N1VreU5ucEFCWTVFaTItT1oxc0IGZUcrRTQrMTVHMIZIU0JhTDA10WlvVT0=), [Sudhir Kumar Singh \(https://sciprofiles.com/profile/237722\)](https://sciprofiles.com/profile/237722) and [Thokozani Kanyerere \(https://sciprofiles.com/profile/1165356\)](https://sciprofiles.com/profile/1165356)

*Water* 2022, 14(24), 4031; <https://doi.org/10.3390/w14244031> (<https://doi.org/10.3390/w14244031>) - 10 Dec 2022

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**Abstract** Empirical evidence continues to show that climate change remains a threat to the stability of the hydrologic system. As the climate system interacts with the hydrologic cycle, one significant repercussion of global warming includes changes in water availability at both regional and local [...] [Read more](#).

(This article belongs to the Special Issue [Analysis of Climate Change and Possible Effects on the Water Environment, Mitigated through Adaptation Strategies \(/journal/water/special\\_issues/climate\\_change\\_possible\\_effects\\_water\\_environment/\)](#))

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**Surface Water Mapping from SAR Images Using Optimal Threshold Selection Method and Reference Water Mask (/2073-4441/14/24/4030)**

by [Olena Kavats \(https://sciprofiles.com/profile/931114\)](https://sciprofiles.com/profile/931114), [Dmitriy Khramov \(https://sciprofiles.com/profile/1374322\)](https://sciprofiles.com/profile/1374322) and [Kateryna Sergieieva \(https://sciprofiles.com/profile/828436\)](https://sciprofiles.com/profile/828436)

*Water* 2022, 14(24), 4030; <https://doi.org/10.3390/w14244030> (<https://doi.org/10.3390/w14244030>) - 09 Dec 2022

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**Abstract** Water resources are an important component of ecosystem services. During long periods of cloudiness and precipitation, when a ground-based satellite is not available, the water bodies are detected from satellite SAR (synthetic-aperture radar) data using threshold methods (e.g., Otsu and Kittler–Illingworth). However, such [...] [Read more](#).

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### [Comparative Study of Coupling Models of Feature Selection Methods and Machine Learning Techniques for Predicting Monthly Reservoir Inflow \(2073-4441/14/24/4029\)](#)

by [Jakkarin Weekaew \(https://sciprofiles.com/profile/1726060\)](#), [Pakorn Ditthakit \(https://sciprofiles.com/profile/1454205\)](#), [Quoc Bao Pham \(https://sciprofiles.com/profile/1556002\)](#), [Nichnan Kittiphattanabawon \(https://sciprofiles.com/profile/2606590\)](#) and [Nguyen Thi Thuy Linh \(https://sciprofiles.com/profile/2146318\)](#)

*Water* 2022, 14(24), 4029; <https://doi.org/10.3390/w14244029> (<https://doi.org/10.3390/w14244029>) - 09 Dec 2022

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**Abstract** Effective reservoir operation under the effects of climate change is immensely challenging. The accuracy of reservoir inflow forecasting is one of the essential factors supporting reservoir operations. This study aimed to investigate coupling models of feature selection (FS) and machine learning (ML) algorithms [...] [Read more](#).

(This article belongs to the Special Issue [Inevitable Connection of River Flow Modeling, GIS, and Hydrogeology \( /journal/water/special\\_issues/river\\_GIS\\_hydrogeology.\)](#))

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### [Simulation Feedback of Temperature Field of Super-High Arch Dam during Operation and Its Difference with Design Temperature \(2073-4441/14/24/4028\)](#)

by [Chunyao Hou \(https://sciprofiles.com/profile/author/SGZQcnRydkVkJc3WVF0dHo3dWlvek42bHg3dWdhYjBjQk5YZUhyOWVJOD0=\)](#), [Dong Chai \(https://sciprofiles.com/profile/author/OHBIOHNvYjRJRWcyT095clgzblpFSWFNa2orMU9iUVFETytzOVhSK1BxZz0=\)](#), [Heng Cheng \(https://sciprofiles.com/profile/author/T0tOYUNwUktNMmtSY0dScEVmb2xzYIBLS1pYU2YybZ3JONWFoMkgvWT0=\)](#), [Shaoqing Ning \(https://sciprofiles.com/profile/author/MHR2NmRMM2wraFBweE9jaVdrcmJLNFJJcUY4T3ZmcDIIaHFraVIUcm1YTT0=\)](#), [Bo Yang \(https://sciprofiles.com/profile/author/QXJxYjRKSzVDQUIGVE9HWFUxeXV3UT09\)](#) and [Yi Zhou \(https://sciprofiles.com/profile/author/NTREbnUwUlPUB0pNdZf4YW5VL1RBWm1vQm9namtNcm44cFZNbGRjY2FBUT0=\)](#)

*Water* 2022, 14(24), 4028; <https://doi.org/10.3390/w14244028> (<https://doi.org/10.3390/w14244028>) - 09 Dec 2022

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**Abstract** Temperature is one of the main loads of super-high arch dams. (1) Background: a super-high arch dam in southwest China was taken as an example in this paper to analyze the temperature field of the dam during operation and its difference with design temperature based on the monitoring data. [...] [Read more](#).

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### **Numerical Investigation of Hydrodynamics in a U-Shaped Open Channel Confluence Flow with Partially Emergent Rigid Vegetation (/2073-4441/14/24/4027).**

by  **Zhengrui Shi** (<https://sciprofiles.com/profile/2580030>) and

 **Sheng Jin** (<https://sciprofiles.com/profile/author/ZDdXVihVNkhIRTV4cGhOakhyLzB5Z0w4RWRvcU1pbnpVRVzrY0RZN04ycz0=>)

*Water* 2022, 14(24), 4027; <https://doi.org/10.3390/w14244027> (<https://doi.org/10.3390/w14244027>) - 09 Dec 2022

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**Abstract** The effects of partially emergent rigid vegetation on the hydrodynamics of a curved open-channel confluence flow were simulated using OpenFOAM. The numerical model using the Volume of Fluid method and the RNG k-ε turbulence model in the Reynolds-averaged Navier–Stokes equations was first validated [...]. **Read more.**

(This article belongs to the Special Issue **Fluvial Hydraulics in the Presence of Vegetation in Channels** ([/journal/water/special\\_issues/Hydraulics\\_vegetation\\_Channels](/journal/water/special_issues/Hydraulics_vegetation_Channels)))

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### **Influence of Anthropogenic Activities on Redox Regulation and Oxidative Stress Responses in Different Phyla of Animals in Coastal Water via Changes in Salinity (/2073-4441/14/24/4026).**

by  **Abhipsa Bal** (<https://sciprofiles.com/profile/2535196>),  **Falguni Panda** (<https://sciprofiles.com/profile/2484749>),

 **Samar Gourav Pati** (<https://sciprofiles.com/profile/2504364>),

 **Taslima Nasim Anwar** (<https://sciprofiles.com/profile/author/dJZqdHhkNzJxNkc0TndRV09GUzJYMml4b1FCVIVibCtLMW5jN3d5RTJocz0=>),

 **Kajari Das** (<https://sciprofiles.com/profile/author/VkZPZm9EdU9USWVwaHpGZFIGTHdkalJKNlIxTlg0SmtYUjRveDIOenFnUT0=>) and

 **Biswaranjan Paital** (<https://sciprofiles.com/profile/1580825>)

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**Abstract** Salinity is a decisive abiotic factor that modulates the physiology of aquatic organisms. Salinity itself is modulated by various factors—most notably by anthropogenic factors. In coastal regions, increasing salinity is observed mostly due to the elevated rate of evaporation under high temperatures, especially [...]. **Back to Top**

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### [Role of Multifunctional Water Reservoirs in the Upper Vistula Basin in Reducing Flood Risk](#) ([/2073-4441/14/24/4025](#))

by [Krzysztof Woś](#) ([https://sciprofiles.com/profile/author/N0paYnJ4R2NTdzE1bEVJN0tRRGdvRzI3ZTF5Wk1OTDBvZTI6dFIDcFZYTT0=](#)), [Radosław Radoń](#) ([https://sciprofiles.com/profile/2647728](#)), [Tomasz Tekielak](#) ([https://sciprofiles.com/profile/author/U1hZYIdkK1dLTzlsWVZxcEIPeERtcnhwUXBUcncBGb25EcDEwZmNjUlpTVT0=](#)), [Krzysztof Wrzosek](#) ([https://sciprofiles.com/profile/2078689](#)), [Łukasz Pieron](#) ([https://sciprofiles.com/profile/1932079](#)) and [Michał Piórecki](#) ([https://sciprofiles.com/profile/author/QzFTcXduYTJPZWpNN0JNcnhzbDZtV0xsZDdocFFvRFBPaHhQ00xEK2djQT0=](#))  
*Water* **2022**, *14*(24), 4025; [https://doi.org/10.3390/w14244025](#) ([https://doi.org/10.3390/w14244025](#)) - 09 Dec 2022

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**Abstract** Multifunctional flood protection reservoirs of regional importance have been controversial for many years due to their significant environmental impact. The impact is especially observed at the implementation stage. Undeniably, properly managed large water reservoirs are the most effective element of active flood protection [...] [Read more.](#)

(This article belongs to the Special Issue [New Challenges in the Planning, Design, Construction and Operation of Reservoirs in the Context of Climate Change](#) ([/journal/water/special\\_issues/Design\\_Construction\\_Operation\\_Reservoirs](#)))



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### [Coagulation and Flocculation Optimization Process Applied to the Sidestream of an Urban Wastewater Treatment Plant](#) ([/2073-4441/14/24/4024](#))

by [Arturo Barros](#) ([https://sciprofiles.com/profile/2643373](#)), [Xanel Vecino](#) ([https://sciprofiles.com/profile/154706](#)), [Mònica Reig](#) ([https://sciprofiles.com/profile/1034594](#)) and [José Luis Cortina](#) ([https://sciprofiles.com/profile/632964](#))  
*Water* **2022**, *14*(24), 4024; [https://doi.org/10.3390/w14244024](#) ([https://doi.org/10.3390/w14244024](#)) - 09 Dec 2022

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**Abstract** Ammonium (NH<sub>4</sub><sup>+</sup>) recirculation from the streams generated in the dehydration stage of the sludge generated in the anaerobic digestion of urban wastewater treatment plants (WWTPs), known as centrate or sidestream, produces a reduction in the efficiency of WWTPs. Given this [...] [Read more.](#)

(This article belongs to the Special Issue [Valorization of Liquid Streams or Byproducts from Wastewater Treatments as High-Added-Value Products for a Resource Recovery Model](#) ([/journal/water/special\\_issues/resource\\_wastewater\\_circular](#)))

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### Microbiological Contamination of Urban Groundwater in the Brazilian Western Amazon (/2073-4441/14/24/4023)

by [Célia Ceolin Baia](https://sciprofiles.com/profile/2570056) (<https://sciprofiles.com/profile/2570056>), [Taise Ferreira Vargas](https://sciprofiles.com/profile/1564397) (<https://sciprofiles.com/profile/1564397>), [Vivian Azevedo Ribeiro](https://sciprofiles.com/profile/author/aWYzVURmcWJmRVZ5R3RINGtCOHIKQUdHa2ZqYjcxK0VsZjBnUjRGUkVZdz0=) (<https://sciprofiles.com/profile/author/aWYzVURmcWJmRVZ5R3RINGtCOHIKQUdHa2ZqYjcxK0VsZjBnUjRGUkVZdz0=>), [Josilena de Jesus Laureano](https://sciprofiles.com/profile/author/ZExHa1kvL2FvRzdPaTU3bHRCbCtsYk11SXILT05JRkMybER4VG5JQnZDOD0=) (<https://sciprofiles.com/profile/author/ZExHa1kvL2FvRzdPaTU3bHRCbCtsYk11SXILT05JRkMybER4VG5JQnZDOD0=>), [Rachel Boyer](https://sciprofiles.com/profile/author/aHl4eIVRc2RYK1dlld1JXanpGT2F3bVVGa0w3aGtISHIKUzIRTG5yZIVhYz0=) (<https://sciprofiles.com/profile/author/aHl4eIVRc2RYK1dlld1JXanpGT2F3bVVGa0w3aGtISHIKUzIRTG5yZIVhYz0=>), [Caetano Chang Dórea](https://sciprofiles.com/profile/327359) (<https://sciprofiles.com/profile/327359>) and [Wanderley Rodrigues Bastos](https://sciprofiles.com/profile/1427217) (<https://sciprofiles.com/profile/1427217>)  
*Water* 2022, 14(24), 4023; <https://doi.org/10.3390/w14244023> (<https://doi.org/10.3390/w14244023>) - 09 Dec 2022  
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**Abstract** Groundwater is heavily exploited for a variety of uses. Depending on their structure, the wells from which water is extracted can act as an entry point/gateway for a variety of microbiological contaminants, which can cause numerous adverse health effects. This study aimed to [...] [Read more](#). (This article belongs to the Section [Urban Water Management \(/journal/water/sections/Urban\\_Water\\_Management\)](#))

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### Comparing CSM-CROPGRO and APSIM-OzCot Simulations for Cotton Production and Eddy Covariance-Based Evapotranspiration in Mississippi (/2073-4441/14/24/4022)

by [Amitava Chatterjee](https://sciprofiles.com/profile/420049) (<https://sciprofiles.com/profile/420049>) and [Saseendran S. Anapalli](https://sciprofiles.com/profile/1453243) (<https://sciprofiles.com/profile/1453243>)  
*Water* 2022, 14(24), 4022; <https://doi.org/10.3390/w14244022> (<https://doi.org/10.3390/w14244022>) - 09 Dec 2022  
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**Abstract** Optimizing irrigation water use efficiency (WUE) is critical to reduce the dependency of irrigated cotton (*Gossypium* spp.) production on depleting aquifers. Cropping system models can integrate and synthesize data collected through experiments in the past and simulate management changes for enhancing WUE [...] [Read more](#). (This article belongs to the Special Issue [Water and Crops \(/journal/water/special\\_issues/Water\\_Crops\\_8\)](#))

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### Identification of Time-Varying Parameters of Distributed Hydrological Model in Wei River Basin on Loess Plateau in the Changing Environment (/2073-4441/14/24/4021)

by [Haizhe Wu](https://sciprofiles.com/profile/author/U2p4MUZ3aXpEQ2xBSU9BSXo0MGVSTUFsVzM1RTE0bC9hOEtyU1RNejJ4OD0=) (<https://sciprofiles.com/profile/author/U2p4MUZ3aXpEQ2xBSU9BSXo0MGVSTUFsVzM1RTE0bC9hOEtyU1RNejJ4OD0=>), [Dengfeng Liu](https://sciprofiles.com/profile/466000) (<https://sciprofiles.com/profile/466000>), [Ming Hao](https://sciprofiles.com/profile/2409750) (<https://sciprofiles.com/profile/2409750>), [Ruisha Li](https://sciprofiles.com/profile/author/TzczMW0wVVM0WDVhRnVXYIc4ZXNmZz09) (<https://sciprofiles.com/profile/author/TzczMW0wVVM0WDVhRnVXYIc4ZXNmZz09>), [Qian Yang](https://sciprofiles.com/profile/author/cnpSZ2UrMEpQdmV0Nlp0VUtuODZsSFRyclhUNjhWWjRvRIIKWkFPMVBQOD0=) (<https://sciprofiles.com/profile/author/cnpSZ2UrMEpQdmV0Nlp0VUtuODZsSFRyclhUNjhWWjRvRIIKWkFPMVBQOD0=>), [Guanghui Ming](https://sciprofiles.com/profile/author/R3F4SGhweFpZc2VuajJNcnAxT2Ntdz09) (<https://sciprofiles.com/profile/author/R3F4SGhweFpZc2VuajJNcnAxT2Ntdz09>) and [Hui Liu](https://sciprofiles.com/profile/1004476) (<https://sciprofiles.com/profile/1004476>)  
*Water* 2022, 14(24), 4021; <https://doi.org/10.3390/w14244021> (<https://doi.org/10.3390/w14244021>) - 09 Dec 2022  
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**Abstract** In the watershed hydrological model, the parameters represent the characteristics of the watershed. Usually, the parameters are assumed to be constant in the stable environment. However, in the changing environment, the parameters may change and the constant parameters would not represent the change [...] [Read more](#).

(This article belongs to the Special Issue [Advanced Hydrologic Modeling in Watershed Scales \(/journal/water/special\\_issues/hydrologic\\_modeling\\_watershed\\_scales\)](#))

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### **Influence of Water Depth and Slope on Roughness—Experiments and Roughness Approach for Rain-on-Grid Modeling** [\(2073-4441/14/24/4017\)](#)

by  [Rebecca Hinsberger](https://sciprofiles.com/profile/2564351)  [\(https://sciprofiles.com/profile/2564351\)](https://sciprofiles.com/profile/2564351),

 [Andreas Biehler](https://sciprofiles.com/profile/author/WG9HNF3LzNLQmZpbEFKV2NaSIE0cyt4eFJVSNVckRnaHBxMWtCdHlzd0=)  [\(https://sciprofiles.com/profile/author/WG9HNF3LzNLQmZpbEFKV2NaSIE0cyt4eFJVSNVckRnaHBxMWtCdHlzd0=\)](https://sciprofiles.com/profile/author/WG9HNF3LzNLQmZpbEFKV2NaSIE0cyt4eFJVSNVckRnaHBxMWtCdHlzd0=) and

 [Alpaslan Yörük](https://sciprofiles.com/profile/author/NFJMbHBvQUZoSm1idDIXRTU4YIVrOG1XNFdpSnIjYnhtSE8vdWUySjdsOD0=)  [\(https://sciprofiles.com/profile/author/NFJMbHBvQUZoSm1idDIXRTU4YIVrOG1XNFdpSnIjYnhtSE8vdWUySjdsOD0=\)](https://sciprofiles.com/profile/author/NFJMbHBvQUZoSm1idDIXRTU4YIVrOG1XNFdpSnIjYnhtSE8vdWUySjdsOD0=)

*Water* **2022**, *14*(24), 4017; <https://doi.org/10.3390/w14244017>  [\(https://doi.org/10.3390/w14244017\)](https://doi.org/10.3390/w14244017) - 09 Dec 2022

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**Abstract** Two-dimensional (2D) models have become a well-established tool for channel flow, as well as rain-induced overland flow simulations. In channel flow simulations, slopes are usually less than a few percent and water depths are over several meters, while overland flow simulations show steep [...] **Read more.**

(This article belongs to the Special Issue **Hydraulics and Hydrodynamics of Overland Flow—Catchment, Subcatchment, Plot Scale and Experimental Approach** ([/journal/water/special\\_issues/I91LG4Z8UA](#).)

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### **Potential of GTL-Derived Biosolids for Water Treatment: Fractionization, Leachate, and Environmental Risk Analysis** [\(2073-4441/14/24/4016\)](#)

by  [Shifa Zuhara](https://sciprofiles.com/profile/2554061)  [\(https://sciprofiles.com/profile/2554061\)](https://sciprofiles.com/profile/2554061),

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*Water* **2022**, *14*(24), 4016; <https://doi.org/10.3390/w14244016>  [\(https://doi.org/10.3390/w14244016\)](https://doi.org/10.3390/w14244016) - 09 Dec 2022

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**Abstract** This study aims to understand the potential of using biosolids produced from the world's largest gas-to-liquid (GTL) plant for water treatment applications. The metal fractionization of the two samples: raw biosolid (BS) and the pyrolyzed biosolid-BS char (BSC) (temperature: 450 °C, heating rate: [...]) **Read more.**

(This article belongs to the Section **Water Quality and Contamination** ([/journal/water/sections/Water\\_Quality\\_Contamination](#)))

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**Correction:** Favaretto et al. A Spatial Structure Variable Approach to Characterize Storm Events for Coastal Flood Hazard Assessment. *Water* **2021**, *13*, 2556 [\(2073-4441/14/24/4015\)](#)

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Water 2022, 14(24), 4015; <https://doi.org/10.3390/w14244015> (https://doi.org/10.3390/w14244015) - 09 Dec 2022

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**Abstract** There were two typos in the original publication [...] [Full article \(/2073-4441/14/24/4015\)](#)

(This article belongs to the Special Issue [Assessment of Current and Future Vulnerability of Coastal Flooding \(/journal/water/special\\_issues/Vulnerability\\_Coastal\\_Flooding\)](#))

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### [Effects of Dam Building on Niche Differentiation of Comammox \*Nitrospira\* in the Main Stream of the Three Gorges Reservoir Area \(/2073-4441/14/24/4014\)](#)

by [Shuang Liu \(https://sciprofiles.com/profile/author/bjgzQ0R8UEpPcHkrNnptSFBqU0dBZ3dDenlzYjFwVzArUDNoekZyMk85Zz0=\)](https://sciprofiles.com/profile/author/bjgzQ0R8UEpPcHkrNnptSFBqU0dBZ3dDenlzYjFwVzArUDNoekZyMk85Zz0=), [Jiahui Zhang \(https://sciprofiles.com/profile/author/dWltcHF5NTFOSEgzcnhYRTFiMjR5bGZ2emhTUkFSS1JkVjhKeW93OHpuOD0=\)](https://sciprofiles.com/profile/author/dWltcHF5NTFOSEgzcnhYRTFiMjR5bGZ2emhTUkFSS1JkVjhKeW93OHpuOD0=), [Yuchun Wang \(https://sciprofiles.com/profile/355603\)](https://sciprofiles.com/profile/355603), [Mingming Hu \(https://sciprofiles.com/profile/2227278\)](https://sciprofiles.com/profile/2227278), [Yufei Bao \(https://sciprofiles.com/profile/author/QmN4blA2eVpMdUF0UDVQNF3anFYQT09\)](https://sciprofiles.com/profile/author/QmN4blA2eVpMdUF0UDVQNF3anFYQT09), [Shanze Li \(https://sciprofiles.com/profile/author/eGoyVWhoVGJzJfFakM4VkFrM3V6RHBIMW9WemditW5VbIVRV2xzWFp1dz0=\)](https://sciprofiles.com/profile/author/eGoyVWhoVGJzJfFakM4VkFrM3V6RHBIMW9WemditW5VbIVRV2xzWFp1dz0=), [Jie Wen \(https://sciprofiles.com/profile/author/dUVoMW1BSUxHL3RZVHEwcTJ5N283VUMxeTF6MXVHVzdXM1RjNGkyQ2dnVT0=\)](https://sciprofiles.com/profile/author/dUVoMW1BSUxHL3RZVHEwcTJ5N283VUMxeTF6MXVHVzdXM1RjNGkyQ2dnVT0=) and [Jianwei Zhao \(https://sciprofiles.com/profile/2210790\)](https://sciprofiles.com/profile/2210790)

Water 2022, 14(24), 4014; <https://doi.org/10.3390/w14244014> (https://doi.org/10.3390/w14244014) - 08 Dec 2022

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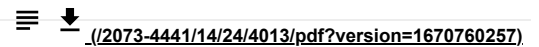
**Abstract** Complete ammonia oxidizers (comammox) can completely oxidize ammonia to nitrate, and the various habitats of comammox *Nitrospira* are an important guarantee for their survival. The construction of the Three Gorges Dam, China, made it easier for nitrogen to stay in the reservoir area, [...] [Read more.](#)

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### [Sub-Hourly to Daily Rainfall Intensity-Duration-Frequency Estimation Using Stochastic Storm Transposition and Discontinuous Radar Data \(/2073-4441/14/24/4013\)](#)

by [Christoffer B. Andersen \(https://sciprofiles.com/profile/author/N0Rub2d3b0xLeWRjRHZMaUhzVVdVY3dEWCs4dE14VjM3Z0EyMVZQamswUT0=\)](https://sciprofiles.com/profile/author/N0Rub2d3b0xLeWRjRHZMaUhzVVdVY3dEWCs4dE14VjM3Z0EyMVZQamswUT0=), [Daniel B. Wright \(https://sciprofiles.com/profile/2504126\)](https://sciprofiles.com/profile/2504126) and [Søren Thorndahl \(https://sciprofiles.com/profile/1205112\)](https://sciprofiles.com/profile/1205112)

Water 2022, 14(24), 4013; <https://doi.org/10.3390/w14244013> (https://doi.org/10.3390/w14244013) - 08 Dec 2022

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**Abstract** Frequency analysis of rainfall data is essential in the design and modelling of hydrological systems but is often statistically limited by the total observation period. With advances in weather radar technology, frequency analysis of areal rainfall data is possible at a higher spatial [...] [Read more.](#)

(This article belongs to the Special Issue [Hydrological Extreme Events and Climate Changes \(/journal/water/special\\_issues/hydrological\\_extreme\\_events\)](#))

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### [The Application and Improvement of Soil-Water Characteristic Curves through In Situ Monitoring Data in the Plains \(/2073-4441/14/24/4012\)](#)

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Water 2022, 14(24), 4012; <https://doi.org/10.3390/w14244012> (<https://doi.org/10.3390/w14244012>) - 08 Dec 2022

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**Abstract** In order to study the soil–water characteristic curve and soil–water movement in the unsaturated zone of the humid plain area and investigate its influence on the regional water cycle process, this study conducted a long series of hydrometeorological data monitoring on the whole [...] [Read more](#).

(This article belongs to the Special Issue **Unsaturated Zone: Advances in Experimental and Theoretical Investigations** ([/journal/water/special\\_issues/unsaturated\\_zone\\_investigation](/journal/water/special_issues/unsaturated_zone_investigation).)

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**Evaluating a Surface Energy Balance Model for Partially Wetted Surfaces: Drip and Micro-Sprinkler Systems in Hazelnut Orchards** (*Corylus Avellana* L.) (</2073-4441/14/24/4011>)

by Camilo Souto (<https://sciprofiles.com/profile/660204>), Octavio Lagos (<https://sciprofiles.com/profile/169849>),

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David R. Bryla (<https://sciprofiles.com/profile/317000>) and Gladys Vidal (<https://sciprofiles.com/profile/326351>)

Water 2022, 14(24), 4011; <https://doi.org/10.3390/w14244011> (<https://doi.org/10.3390/w14244011>) - 08 Dec 2022

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**Abstract** A multi-layer surface energy balance model was previously developed to estimate crop transpiration (T) and soil evaporation (E) in orchards partially wet by micro-irrigation systems. The model, referred to as SEB-PW, estimates latent (ΛE), sensible (H), and soil heat fluxes (G) and separates [...] [Read more](#).

(This article belongs to the Special Issue **An Innovative Approach to Cleaning Up Organic and Inorganic Contaminations from Soil and Water** ([/journal/water/special\\_issues/27359D8584](/journal/water/special_issues/27359D8584).)

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**Host Range and Phylogenetic Position of *Acipenserobdella volgensis* (Zytkoff, 1904) (Hirudinea: Piscicolidae) with a Global Checklist of Bivalve-Associated Fish Leeches** (</2073-4441/14/24/4010>)

by Ivan N. Bolotov (<https://sciprofiles.com/profile/1183624>),

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Water 2022, 14(24), 4010; <https://doi.org/10.3390/w14244010> (<https://doi.org/10.3390/w14244010>) - 08 Dec 2022

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**Abstract** The fish leech *Acipenserobdella volgensis* (Hirudinea: Piscicolidae) is a rare and poorly known freshwater species, which is thought to be an obligate parasite of sturgeons. This leech has a disjunctive range in Europe and Eastern Siberia. Here, we estimate the phylogenetic affinities and [...] [Read more](#).

(This article belongs to the Section [Biodiversity and Functionality of Aquatic Ecosystems](#) ([/journal/water/sections/Biodiversity\\_Ecosystem\\_Functioning](#)))



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**Wastewater Treatment with the Natural Sorbents from the Arctic** ([/2073-4441/14/24/4009](#))

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[Anastasiia Fugaeva](#) (<https://sciprofiles.com/profile/author/bFRVYThleIVCeUFRWXgzQXUrNm56R0lyU0lydFBLNWN0Q0w4L1hycDJ6OD0=>)

*Water* 2022, 14(24), 4009; <https://doi.org/10.3390/w14244009> (<https://doi.org/10.3390/w14244009>) - 08 Dec 2022

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**Abstract** Oil and gas production has an adverse impact on the ecological state of the Russian Arctic. The local natural materials, such as peat, moss, and reindeer moss are considered as natural sorbents in wastewater treatment technologies. The sorption properties of these local materials [...] [Read more](#).

(This article belongs to the Special Issue [Sorption Processes in Wastewater Treatment: Current State of Knowledge and Future Opportunities](#) ([/journal/water/special\\_issues/C0SV39R5Y8](#)))

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**Modeling of Groundwater Nitrate Contamination Due to Agricultural Activities—A Systematic Review** ([/2073-4441/14/24/4008](#))

by [Meenakshi Rawat](#) (<https://sciprofiles.com/profile/2575361>), [Rintu Sen](#) (<https://sciprofiles.com/profile/2575381>),

[Ikenna Onyekwelu](#) (<https://sciprofiles.com/profile/2549214>),

[Travis Wiederstein](#) (<https://sciprofiles.com/profile/author/eHBwR24xalhzTis5NVI4bmRPSU02RkE0WUtURGIQzVUNXgxWWJweDV6ST0=>) and

[Vaishali Sharda](#) (<https://sciprofiles.com/profile/2548911>)

*Water* 2022, 14(24), 4008; <https://doi.org/10.3390/w14244008> (<https://doi.org/10.3390/w14244008>) - 08 Dec 2022

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**Abstract** Groundwater nitrate contamination is a significant concern in agricultural watersheds worldwide with it becoming a more pervasive problem in the last three decades. Models are great tools that are used to identify the sources and spatial patterns of nitrate contamination of groundwater due [...] [Read more](#).

(This article belongs to the Section [Water Quality and Contamination](#) ([/journal/water/sections/Water\\_Quality\\_Contamination](#)))

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**Exploring the Influences of Stream Network Structure and Connectivity on Water Environment Risk in China** ([/2073-4441/14/24/4007](#))

by [Menghan Chen](#) (<https://sciprofiles.com/profile/2565124>),

[Zhicheng Xu](#) (<https://sciprofiles.com/profile/author/YIR1WWJyUVkrNjZpdzhyNIIPNWFbTE9VakZHNnZ3a0JISk5sL3dNdkJxcz0=>),

[Lei Cheng](#) (<https://sciprofiles.com/profile/1140260>),

[Qinyao Hou](#) (<https://sciprofiles.com/profile/author/VGVZTWs2dkwvRG5tMHdLTTVLdEc0eWxpKzhyZINDNDdsZldrYUE2NVY4TT0=>),

[Pan Liu](#) (<https://sciprofiles.com/profile/20913>) and [Shujing Qin](#) (<https://sciprofiles.com/profile/2244008>)

*Water* 2022, 14(24), 4007; <https://doi.org/10.3390/w14244007> (<https://doi.org/10.3390/w14244007>) - 08 Dec 2022

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**Abstract** Stream networks are the transportation channels of pollutants that can significantly influence water environment risk (WER). However, the influences of stream network structure and connectivity (SC) on WER at the national scale and its regional variability have been rarely investigated in China. In [...] [Read more](#).

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### **Dynamics of Pollution in the Hyporheic Zone during Industrial Processing Brine Discharge** ([/2073-4441/14/24/4006](#))

by  [Yanina Parshakova](#) (<https://sciprofiles.com/profile/author/MEk3bHpxcktJYmtrMERMRDJUUDVDeDBYNHhDZk5SZXBJRE1sdzVtZW9Ocz0=>) and  [Andrey Ivantsov](#) (<https://sciprofiles.com/profile/920291>)

*Water* **2022**, *14*(24), 4006; <https://doi.org/10.3390/w14244006> (<https://doi.org/10.3390/w14244006>) - 08 Dec 2022

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**Abstract** The industrial production of chemicals, including the manufacture of mineral fertilizers, is often associated with the need for the disposal of highly mineralized brines through their discharge into surface water bodies or an underground water-bearing layer. When dealing with surface water bodies, the [...]

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(This article belongs to the Section **Water Quality and Contamination** ([/journal/water/sections/Water\\_Quality\\_Contamination](#)))


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### **Water Efficiency of Coriander under Flows of Application of Nutritive Solutions Prepared in Brackish Waters** ([/2073-4441/14/24/4005](#))

by  [Raphaella Revorêdo Bezerra](#) (<https://sciprofiles.com/profile/author/TEEyUEZncGRQZGRvakRWR2pXRTFZamQwTTZxaHYxQzlvNEdKRmFwNktYbzI>),  [José Amilton Santos Júnior](#) (<https://sciprofiles.com/profile/author/NmRrd0ljOWM1SzhwTTFcSDVmNW51WmhISG1xRVRmd3A4UIhVZnlvVIFJTt0=>)

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 [Kézia Ferreira Nogueira](#) (<https://sciprofiles.com/profile/author/cW93WIIIMEVNdUdvSnRFWGRcQTR3UnpWVEITKy9hNVM5djVwcjQd1RzOD0=>),

and

 [Edivan Rodrigues de Souza](#) (<https://sciprofiles.com/profile/2046884>)

*Water* **2022**, *14*(24), 4005; <https://doi.org/10.3390/w14244005> (<https://doi.org/10.3390/w14244005>) - 08 Dec 2022

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**Abstract** The impact of the salinity of the nutrient solution on water efficiency can be changed by the application flow. The aim of this work was to analyze the water efficiency and production components of coriander plants, cultivar Verdão, exposed to nutrient solutions (1.7, [...]) **Read more.**

(This article belongs to the Special Issue **Monitoring, Reclamation and Management of Salt-Affected Lands** ([/journal/water/special\\_issues/saline\\_alkali\\_land](#)))

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### Analysis of the Effect of Soil Remediation Processes Contaminated by Heavy Metals in Different Soils [\(2073-4441/14/24/4004\)](#)

by [Ke Ren](#) (<https://sciprofiles.com/profile/author/d2g3WEdBSmNuZjc1MHZoM2Nmc05pSig2ZFZoczVksSDZGVmh2ZXROcXJacz0=>), [Fangyuan Teng](#) (<https://sciprofiles.com/profile/author/VENHcTM1aWlaaFFsK3IIsmo5TTV1M0JUL0doNDZsQkE4T2NZdWVneDNXaz0=>), [Shejiang Liu](#) (<https://sciprofiles.com/profile/2087399>) and [Xiuli Liu](#) (<https://sciprofiles.com/profile/author/aEJYaTVJeE40L1R6WXNYNFovbmMraXcwYVJOMUJ3UmJUd3BFdW4wWkQ2TT0=>)  
*Water* **2022**, *14*(24), 4004; <https://doi.org/10.3390/w14244004> (<https://doi.org/10.3390/w14244004>) - 08 Dec 2022

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**Abstract** Heavy metal pollution in China's soil is very serious, and soil remediation is urgent. At present, most of the domestic and foreign research is aimed at one soil type for soil heavy metal pollution remediation. However, the distribution of heavy metals and the [...] [Read more](#).

(This article belongs to the Special Issue [Control and Remediation of Contaminants in Soil and Groundwater](#) ([/journal/water/special\\_issues/Remediation\\_Soil\\_Groundwater](/journal/water/special_issues/Remediation_Soil_Groundwater).)

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### Bayesian Calibration and Uncertainty Assessment of HYDRUS-1D Model Using GLUE Algorithm for Simulating Corn Root Zone Salinity under Linear Move Sprinkle Irrigation System [\(2073-4441/14/24/4003\)](#)

by [Farzam Moghbel](#) (<https://sciprofiles.com/profile/author/MnBvWkl6NII4ciZvUDNEY2xKMINmRUdJWC9kdU8vYTJ4bnptc05HaWtGZz0=>), [Abolfazi Mosaedi](#) (<https://sciprofiles.com/profile/741821>), [Jonathan Aguilar](#) (<https://sciprofiles.com/profile/2446777>), [Bijan Ghahraman](#) (<https://sciprofiles.com/profile/author/b1NQRkZMS0IBSEtd2RhNnInbHNDN1QzYmxVem5UV2VYUIBoeFV4bzlxND0=>), [Hossein Ansari](#) (<https://sciprofiles.com/profile/1182434>) and [Maria C. Gonçalves](#) (<https://sciprofiles.com/profile/2446162>)  
*Water* **2022**, *14*(24), 4003; <https://doi.org/10.3390/w14244003> (<https://doi.org/10.3390/w14244003>) - 08 Dec 2022

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**Abstract** Soil salinization is one of the significant concerns regarding irrigation with saline waters as an alternative resource for limited freshwater resources in arid and semi-arid regions. Thus, the investigation of proper management methods to control soil salinity for irrigation with saline waters is [...] [Read more](#).

(This article belongs to the Special Issue [Agricultural Practices to Improve Irrigation Sustainability](#) ([/journal/water/special\\_issues/irrigation\\_sustainability](/journal/water/special_issues/irrigation_sustainability).)

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### River–Lake System Connectivity Effectively Reduced the Salinity of Lake Water in Bosten Lake, Northwest China [\(2073-4441/14/24/4002\)](#)

by [Honghua Zhou](#) (<https://sciprofiles.com/profile/952907>), [Yaning Chen](#) (<https://sciprofiles.com/profile/495746>), [Zhaoxia Ye](#) (<https://sciprofiles.com/profile/154155>), [Yupeng Li](#) (<https://sciprofiles.com/profile/author/Ujh2UTFqR2ZKbWIINzVJNkFIUmhiMidNbkdUUDFTUEh5NkNWV1lwbm5CND0=>) and [Chenggang Zhu](#) (<https://sciprofiles.com/profile/151387>)  
*Water* **2022**, *14*(24), 4002; <https://doi.org/10.3390/w14244002> (<https://doi.org/10.3390/w14244002>) - 08 Dec 2022

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**Abstract** This study aims to ensure you get the best experience in environment management of Bosten Lake. Weak water exchange and water [...] [Read more](#).

(This article belongs to the Special Issue [Advances in Studies on Ecohydrological Processes in the Arid Area](#) ([/journal/water/special\\_issues/ecohydrological\\_processes\\_arid\\_areas](/journal/water/special_issues/ecohydrological_processes_arid_areas).)

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### **Evaluation of Potential Seawater Intrusion in the Coastal Aquifers System of Benin and Effect of Countermeasures Considering Future Sea Level Rise (2073-4441/14/24/4001)**

by [Amos Agossou](#) (<https://sciprofiles.com/profile/1933728>), [Jeong-Seok Yang](#) (<https://sciprofiles.com/profile/98396>) and [Jae-Boem Lee](#) (<https://sciprofiles.com/profile/author/NXRMOVhKNnh6WUdqNkNDL2R0eGZxTjZNBW1WaGtQMExUU2JtS1BKQStCbz0=>)  
*Water* **2022**, *14*(24), 4001; <https://doi.org/10.3390/w14244001> (<https://doi.org/10.3390/w14244001>) - 08 Dec 2022

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**Abstract** In the present study, a three-dimensional SEAWAT model was developed to generally simulate the impact of climate change and anthropogenic activities on seawater intrusion (SWI) in the coastal region of Benin by the end of 2050. The model was calibrated and validated from [...] [Read more](#).

(This article belongs to the Special Issue [Coastal Aquifers: Seawater/Saltwater Intrusion](#) ([/journal/water/special\\_issues/coastal\\_aquifers\\_seawater\\_intrusion](#)))

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### **Ultrasonic Vibration Technology to Improve the Thermal Performance of CPU Water-Cooling Systems: Experimental Investigation (2073-4441/14/24/4000)**

by [Amin Amiri Delouei](#) (<https://sciprofiles.com/profile/1343300>), [Hasan Sajjadi](#) (<https://sciprofiles.com/profile/2634878>) and [Goodarz Ahmadi](#) (<https://sciprofiles.com/profile/38413>)  
*Water* **2022**, *14*(24), 4000; <https://doi.org/10.3390/w14244000> (<https://doi.org/10.3390/w14244000>) - 08 Dec 2022

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**Abstract** The rapid growth of the electronics industry and the increase in processor power levels requires new techniques to improve the heat transfer rate in their cooling systems. In this study, ultrasonic vibration technology was introduced as an active method to enhance the thermal [...] [Read more](#).

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### **Soil Microbiome Study Based on DNA Extraction: A Review (2073-4441/14/24/3999)**

by [Urszula Wydro](#) (<https://sciprofiles.com/profile/684867>)  
*Water* **2022**, *14*(24), 3999; <https://doi.org/10.3390/w14243999> (<https://doi.org/10.3390/w14243999>) - 08 Dec 2022

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**Abstract** In recent years, many different methods that allow for the analysis of the biodiversity and structure of the community of microorganisms inhabiting the soil environment have emerged. Many of these approaches are based on molecular methods including the study of genetic biodiversity based [...] [Read more](#).

(This article belongs to the Special Issue [Presence of Microorganisms in Soil and Water](#) ([/journal/water/special\\_issues/microorganisms\\_soil\\_water](#)))

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**Nanomaterials for Water Remediation: An Efficient Strategy for Prevention of Metal(loid) Hazard** (/2073-4441/14/24/3998)

by [Jyoti Mathur](#) (<https://sciprofiles.com/profile/411132>), [Pooja Goswami](#) (<https://sciprofiles.com/profile/author/MVNjRXJ1b2w0VnhXRTJ4TGh4NzduVGM4OFerVUVRNW5UTFpoazFCbFpJTT0=>), [Ankita Gupta](#) (<https://sciprofiles.com/profile/2544935>), [Sudhakar Srivastava](#) (<https://sciprofiles.com/profile/1652977>), [Tatiana Minkina](#) (<https://sciprofiles.com/profile/1051394>), [Shengdao Shan](#) (<https://sciprofiles.com/profile/author/cHFPMXBINK1KTjRQdCs0TWdMbHF3MEJqQ1FiWIBzVzE2Q3hxZkINTEhPaz0=>) and [Vishnu D. Rajput](#) (<https://sciprofiles.com/profile/1001921>).

Water 2022, 14(24), 3998; <https://doi.org/10.3390/w14243998> (<https://doi.org/10.3390/w14243998>) - 08 Dec 2022

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**Abstract** Different natural and anthropogenic global events and activities such as urban settlements and industrial development have led to a build-up of numerous pollutants in the environment, creating problems for nature and human health. Among the pollutants, metal(loid)s are persistent and ubiquitously present in [...]. [Read more.](#)

(This article belongs to the Special Issue **An Innovative Approach to Cleaning Up Organic and Inorganic Contaminations from Soil and Water** ([/journal/water/special\\_issues/27359D8584](/journal/water/special_issues/27359D8584)))

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**Model Test and Numerical Simulation of Slope Instability Process Induced by Rainfall** (/2073-4441/14/24/3997)

by [Yongshuai Sun](#) (<https://sciprofiles.com/profile/2322335>), [Ke Yang](#) (<https://sciprofiles.com/profile/author/SXltdHRTWVpBcWlWmK9WmmlSZ3VDbnBQdIRBVWlwOW9EaHNuSWJzL3Zxbz0=>), [Ruilin Hu](#) (<https://sciprofiles.com/profile/author/S25FR01SL0dwNDNBV4wRIZVOXdETmtzMmEwWUNIN0pKUHRCWW9IVHdYbz0=>), [Guihe Wang](#) (<https://sciprofiles.com/profile/510490>) and [Jianguo Lv](#) (<https://sciprofiles.com/profile/2585151>)

Water 2022, 14(24), 3997; <https://doi.org/10.3390/w14243997> (<https://doi.org/10.3390/w14243997>) - 07 Dec 2022

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**Abstract** Due to rainfall infiltration, slope instability becomes frequent, which is the main reason for landslide disasters. In this study, the stability of slope affected by rainfall was analyzed using an indoor model test and geo-studio simulation method, and the variation law of phreatic [...]. [Read more.](#)

(This article belongs to the Special Issue **Rainfall-Induced Geological Disasters** ([/journal/water/special\\_issues/geological\\_disasters](/journal/water/special_issues/geological_disasters)))

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**Contrast Analysis of Flow-Discharge Measurement Methods in a Wide-Shallow River during Ice Periods** (/2073-4441/14/24/3996)

by [Jinzhi Lu](#) (<https://sciprofiles.com/profile/2520230>), [Xinlei Guo](#) (<https://sciprofiles.com/profile/2525005>), [Weijia Fan](#) (<https://sciprofiles.com/profile/author/1PvCS3D0ER29QjVzZ29RbG1Odz09>), [Ruijun Qiu](#) (<https://sciprofiles.com/profile/author/2P0T2RRb1NkQm9NUnFxeINfD3RHb9KVMtZSXhha0RCVmfRFSnp0Qk5maz0=>), [Yihong Wu](#) (<https://sciprofiles.com/profile/1824302>) and [Zeyu Mao](#) ([https://sciprofiles.com/profile/author/NUHjQm90eUxUSXdlldWgybUhBRWc10EhvMjdjTmtxR0JJdnNkeXRSW5EwVZ0spt\\_cookies](https://sciprofiles.com/profile/author/NUHjQm90eUxUSXdlldWgybUhBRWc10EhvMjdjTmtxR0JJdnNkeXRSW5EwVZ0spt_cookies))

Water 2022, 14(24), 3996; <https://doi.org/10.3390/w14243996> (<https://doi.org/10.3390/w14243996>) - 07 Dec 2022

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**Abstract** The discharge of natural rivers is one of the important hydrological factors that are considered when responding to ice-flood disasters during ice periods. Traditionally, holes need to be dug along the cross-section on the ice cover to gauge velocity distributions along the flow [...] [Read more.](#) (This article belongs to the Special Issue **Advanced Turbulence Measurements and Simulations in River Flow Research: From Experimental Flume- and Field- Scale Experiments to Computational Fluid Dynamics (CFD)** ([/journal/water/special\\_issues/Turbulence\\_CFD.](#)))

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**Simulation Study on the Effect of Non-Point Source Pollution on Water Quality in the Upper Reaches of the Lijiang River (2073-4441/14/24/3995)**

by [Zitao Li](#) (<https://sciprofiles.com/profile/author/QW5zTkIITWYrZGFJUFg4YTZBWSsxQT09>),

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[Baoli Xu](#) (<https://sciprofiles.com/profile/1201215>).

*Water* 2022, 14(24), 3995; <https://doi.org/10.3390/w14243995> (<https://doi.org/10.3390/w14243995>) - 07 Dec 2022

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**Abstract** Maintaining good water quality in the Lijiang River is a scientific and practical requirement for protecting and restoring the environmental and ecological value of the river. Understanding the influence of non-point source pollution on the water quality of the Lijiang River is important [...] [Read more.](#) (This article belongs to the Section **Water Quality and Contamination** ([/journal/water/sections/Water\\_Quality\\_Contamination](#)))

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**Risk-Based Inspection and Rehabilitation Planning of Service Connections in Intermittent Water Supply Systems for Leakage Management in Arid Regions (2073-4441/14/24/3994)**

by [Husnain Haider](#) (<https://sciprofiles.com/profile/1799560>), [Muath Abdullah Almutlaq](#) (<https://sciprofiles.com/profile/2588460>),

[Abdullah Alodah](#) (<https://sciprofiles.com/profile/712432>), [Abdul Razzaq Ghumman](#) (<https://sciprofiles.com/profile/383155>),

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[Md. Shafiquzzaman](#) (<https://sciprofiles.com/profile/356808>)

*Water* 2022, 14(24), 3994; <https://doi.org/10.3390/w14243994> (<https://doi.org/10.3390/w14243994>) - 07 Dec 2022

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**Abstract** Most of the leakage in water distribution systems operating with plastic pipes occurs at service connections (SCs), while the existing tools plan rehabilitation of pipes. With limited water resources, intermittent supplies in arid regions further enhance the failure vulnerability of metal fittings on [...] [Read more.](#)


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### [Application of Regression-Based Machine Learning Algorithms in Sewer Condition Assessment for Ålesund City, Norway](#) [\(/2073-4441/14/24/3993\)](#)

by  [Lam Van Nguyen](#) (<https://sciprofiles.com/profile/1976631>) and  [Razak Seidu](#) (<https://sciprofiles.com/profile/636957>)

*Water* **2022**, 14(24), 3993; <https://doi.org/10.3390/w14243993> (<https://doi.org/10.3390/w14243993>) - 07 Dec 2022

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**Abstract** Predicting the condition of sewer pipes plays a vital role in the formulation of predictive maintenance strategies to ensure the efficient renewal of sewer pipes. This study explores the potential application of ten machine learning (ML) algorithms to predict sewer pipe conditions in [...]. [Read more.](#)

(This article belongs to the Special Issue [Urban Sewer System Management](#) ([/journal/water/special\\_issues/urban\\_sewer\\_system](#)))



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### [Frequency Characteristic Analysis of Acoustic Emission Signals of Pipeline Leakage](#) [\(/2073-4441/14/24/3992\)](#)

by  [Weiping Cheng](#) (<https://sciprofiles.com/profile/546194>) and  [Yongxin Shen](#) (<https://sciprofiles.com/profile/1826831>)

*Water* **2022**, 14(24), 3992; <https://doi.org/10.3390/w14243992> (<https://doi.org/10.3390/w14243992>) - 07 Dec 2022

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

**Abstract** The leakage detection of a water distribution system (WDS) needs the support of a large number of field data. This paper collected over 6800 leak detection signals from cast iron pipelines used in a WDS. We found that 3280 signals indicated leakage, and [...]. [Read more.](#)

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### [A Virological Perspective on the Use of Bacteriophages as Hydrological Tracers](#) [\(/2073-4441/14/24/3991\)](#)

by  [Perrine Florent](#) (<https://sciprofiles.com/profile/2295123>),  [Henry-Michel Cauchie](#) (<https://sciprofiles.com/profile/131080>) and

 [Leslie Ogorzaly](#) (<https://sciprofiles.com/profile/133566>)

*Water* **2022**, 14(24), 3991; <https://doi.org/10.3390/w14243991> (<https://doi.org/10.3390/w14243991>) - 07 Dec 2022

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**Abstract** Hydrological tracers, commonly used for characterizing water flow paths and sources, do not often meet all the requirements of an ideal tracer. Trans-disciplinary approaches are advocated as the way forward to enlarge the number of tracers available for investigating hydrological processes. Since the [...]

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## Deformation Prediction of Cihaxia Landslide Using InSAR and Deep Learning (2073-4441/14/24/3990)

by  [Yuxiao Wang](https://sciprofiles.com/profile/2449790) (https://sciprofiles.com/profile/2449790),

[Shouyi Li](https://sciprofiles.com/profile/author/OFRkWEJSR3JmVTIVdk5VZW1LT2dvaFR1cnBUQik2L200UTFSTzIBVGgVTT0=) (https://sciprofiles.com/profile/author/OFRkWEJSR3JmVTIVdk5VZW1LT2dvaFR1cnBUQik2L200UTFSTzIBVGgVTT0=) and

[Bin Li](https://sciprofiles.com/profile/author/RGNTSEU3NzIqNVB3eU1zeGplcnE5dWhGZktvMctDa0hhM2NjQ3R1WnYrRT0=) (https://sciprofiles.com/profile/author/RGNTSEU3NzIqNVB3eU1zeGplcnE5dWhGZktvMctDa0hhM2NjQ3R1WnYrRT0=)

Water 2022, 14(24), 3990; <https://doi.org/10.3390/w14243990> (https://doi.org/10.3390/w14243990) - 07 Dec 2022

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**Abstract** Slope deformation monitoring and analysis are significant in the geological survey of hydraulic engineering. However, predicting future slope deformation is a vital and challenging task for engineers. The accurate estimation of slope displacement is required for the risk assessment of slope stability. This [...] [Read more](#).

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## Evidence for Links between Feeding Behavior of *Daphnia magna* and Water Framework Directive Elements: Case Study of Crestuma-Lever Reservoir (2073-4441/14/24/3989)

by [Bárbara S. Diogo](https://sciprofiles.com/profile/2532215) (https://sciprofiles.com/profile/2532215), [Sara Rodrigues](https://sciprofiles.com/profile/1752777) (https://sciprofiles.com/profile/1752777),

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Water 2022, 14(24), 3989; <https://doi.org/10.3390/w14243989> (https://doi.org/10.3390/w14243989) - 07 Dec 2022

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**Abstract** The Water Framework Directive (WFD) is the European legislation on water policy that assesses water quality according to time-consuming metrics and specific taxonomic needs. In this sense, the objective of this study was to evaluate the sensitivity of *Daphnia magna* feeding rate assays [...] [Read more](#).

(This article belongs to the Special Issue [Ecological and Ecotoxicological Assessment of Water Quality](/journal/water/special_issues/Ecological_Ecotoxicological_Assessment_of_Water_Quality) (/journal/water/special\_issues/Ecological\_Ecotoxicological\_Assessment\_of\_Water\_Quality))

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## Removal of Environmentally Harmful and Hardly Degradable Pharmaceuticals Sulfamethoxazole, Diclofenac, and Cetirizine by Adsorption on Activated Charcoal (2073-4441/14/24/3988)

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**Abstract** The removal of three environmentally harmful and hardly degradable pharmaceuticals, namely sulfamethoxazole, diclofenac, and cetirizine, from aqueous solution by the adsorption onto two types of activated charcoals (WSC12 and HWOH) was investigated. The volume of micropores and mesopores in  [Accept \(accept cookies\)](#) [Back to top](#)


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*Water* 2022, 14(24), 3987; <https://doi.org/10.3390/w14243987> (<https://doi.org/10.3390/w14243987>) - 07 Dec 2022

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**Abstract** One of the most important aspects for the regulation of a water distribution system in a city is the accurate projection of the population to be supplied. Accordingly, it is necessary to know the social, cultural, and economic characteristics of the inhabitants, as [...] [Read more](#).

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[Real-Time Groundwater Dynamics Verification in the Embankment's Substrate during the Transition of a Flood Wave \(/2073-4441/14/24/3986\)](#)

by  [Filip Bujakowski \(https://sciprofiles.com/profile/566711\)](#),  [Tomasz Falkowski \(https://sciprofiles.com/profile/724379\)](#),  [Anna Podlasek \(https://sciprofiles.com/profile/113680\)](#) and  [Piotr Ostrowski \(https://sciprofiles.com/profile/1687542\)](#)

*Water* 2022, 14(24), 3986; <https://doi.org/10.3390/w14243986> (<https://doi.org/10.3390/w14243986>) - 07 Dec 2022

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**Abstract** The scope of the presented research included real-time verification of groundwater dynamics in the zone of the filled erosion channel (crevasses) and in the non-transformed zone of the floodplain area during the transition of a flood wave in the river channel. The technical [...] [Read more](#).

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by  [Ahmad Shakibaeinia \(https://sciprofiles.com/profile/1102423\)](#) and  [Amir Reza Zarrati \(https://sciprofiles.com/profile/1417970\)](#)

*Water* 2022, 14(24), 3985; <https://doi.org/10.3390/w14243985> (<https://doi.org/10.3390/w14243985>) - 07 Dec 2022


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**Abstract** Rapid advances in computational power and numerical techniques in recent years have provided us with the opportunity to solve challenging problems in many science and engineering fields [...] [Full article \(/2073-4441/14/24/3985\)](#)

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*Water* **2022**, *14*(24), 3984; <https://doi.org/10.3390/w14243984> (<https://doi.org/10.3390/w14243984>) - 07 Dec 2022

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**Abstract** Although the impact of floods on the agricultural sector is relevant, with potential consequences on food security, in the new EU Common Agricultural Policy (CAP) proposal, agricultural risk management tools have been reinforced and extended. As far as we know, guidelines for the [...] [Read more](#). (This article belongs to the Special Issue [Advances and Challenges in Flood Map Development and Its Applications \( /journal/water/special\\_issues/Challenges\\_Flood \)](#))

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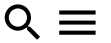
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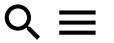
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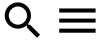


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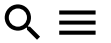


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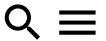
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**Interests:** climate change; water resource; surface process; ecohydrology; arid region

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**Interests:** water resources; wastewater engineering; water sensitive cities; eutrophication and cyanobacterial blooms; algal toxins; waste stabilisation ponds; lakes and limnology; aquatic ecology; environmental policy

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Department of Plant, Soil and Microbial Sciences, Center for Global Change and Earth Observations, Center for European, Russian, and Eurasian Studies, Michigan State University, Okemos, MI, USA

**Interests:** water-energy-food; agriculture; food security; food systems

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**Interests:** hydrology; fluvial geomorphology; biogeochemical cycling; sediment transport

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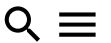
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**Interests:** computational hydro-environmental modelling; laboratory hydraulic modelling; hydrodynamic processes; water quality; sediment transport and morphology; faecal indicator organisms; contaminant fate and transport; coastal, estuarine and river restoration; flood risk assessment; quantitative health risk assessment; global water security

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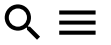
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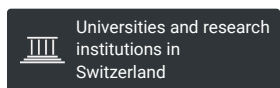
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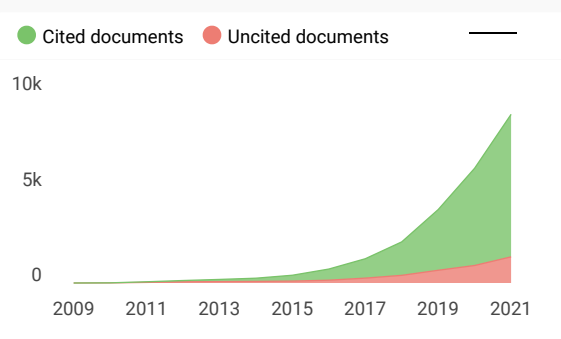
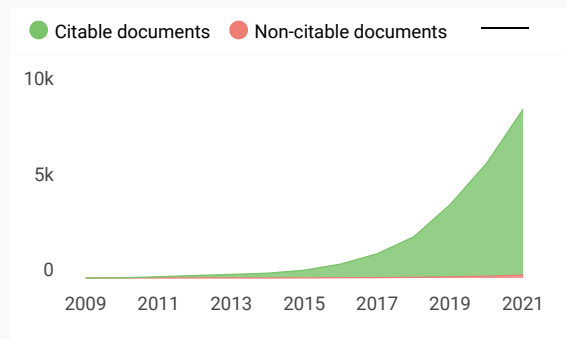
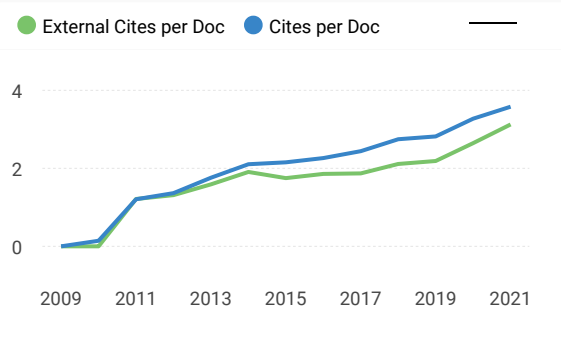
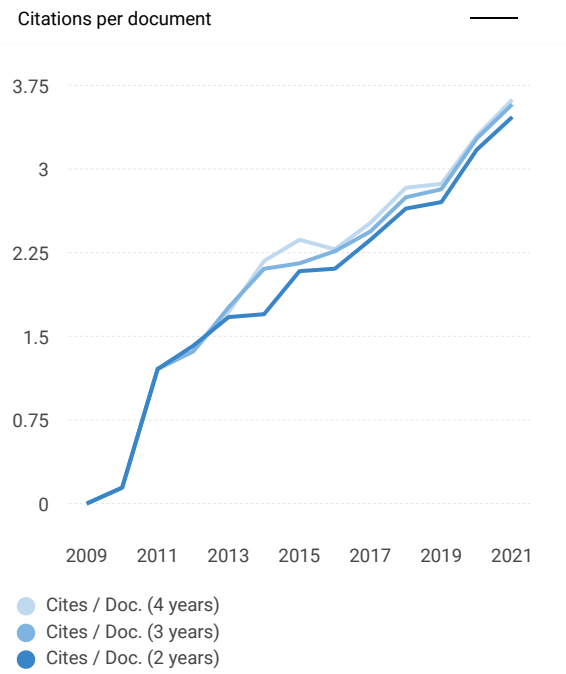
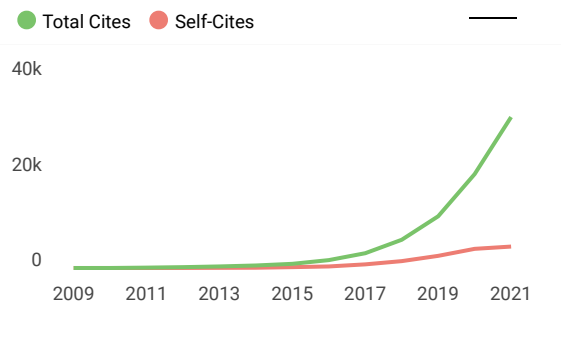
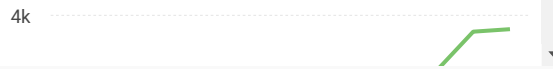
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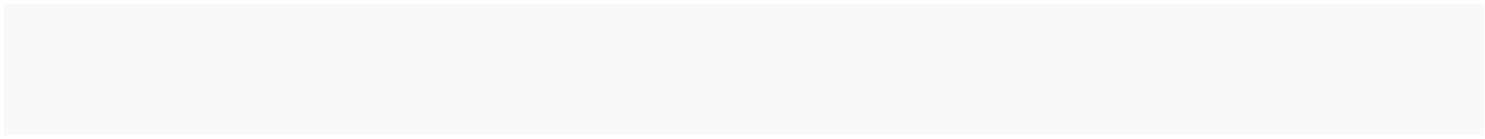
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## Article

# Uncertainty and Sensitivity Analysis of the Effective Implementation of Water Quality Improvement Programs for Citarum River, West Java, Indonesia

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**Abstract:** Pollution of rivers is a challenge for many countries. In the Citarum watershed, Indonesia, where pollution has been an emerging issue nationwide, many programs and policies have been set up. However, implementation of all the planned programs and the significance of their contributions toward water quality improvement of the Citarum River have not been analyzed. In this paper, we present original research on evaluating water quality programs planned to achieve outputs by using uncertainty and sensitivity analysis for a river. The essential inputs included: (1) key parameters, (2) priority planned programs, and (3) interrelationships between programs, parameters, and the level of successfulness of water quality control programs. The first and second inputs were prepared simultaneously using Principal Component Analysis (PCA) and Analytical Hierarchy Process (AHP). The latter was obtained using the Delphi method to obtain the related stakeholders' opinions. Finally, we explore Monte Carlo simulation to analyze parameter uncertainty and sensitivity contributing to the program's effectiveness. By implementing all the water quality control programs, the results showed that cadmium, BOD, and fecal coliform were the most affected parameters. In addition, the most effective programs to improve the pollution index were domestic waste, farming, solid waste, and water resource programs. If those programs were implemented collectively, the probability of reducing the pollution index was within a range 2.01–36.22% from the base case.

**Keywords:** PCA; AHP; Delphi method; Monte Carlo simulation; Citarum



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## 1. Introduction

Water pollution is a global concern, as it is a challenge for many countries with rapidly growing economies and populations [1,2]. The deterioration of rivers in developing countries is mainly due to inadequate waste management policies or infrastructure [3]. On the island of Java, Indonesia, particularly in the western part, pollutants entering the catchment and its rivers come from various activities, primarily urban population and industrial [4]. Such a condition has brought negative externalities to downstream water users, resulting in an increased threat to public health and affecting the general welfare of the population [5].

The Citarum River plays a pivotal role in many sectors of West Java province, Indonesia, and its surroundings. Pollution of the Citarum River has been an emerging nationwide issue for years. To handle this, the Government of Indonesia issued Presidential Regulation No. 15/2018 concerning the Acceleration of Pollution and Damage Control in the Citarum River Watershed [6]. One of the mandates stated is to implement the government regulation action plan, consisting of twelve pollution control programs by the related stakeholders.

However, implementation of all the planned programs and the significance of their contributions toward water quality improvement of the Citarum River have not been analyzed. Additionally, evaluating the planned programs mentioned above is essential for proper water quality management.

This study explores uncertainty and sensitivity analysis to evaluate the effectiveness of water quality programs planned to achieve outputs for a river. We employed three methods to obtain inputs of uncertainty and sensitivity analysis: Principal Component Analysis (PCA), Analytic Hierarchy Process (AHP), and the Delphi method. The first two were simultaneously employed to assess the present water quality's key parameters and determine priority planned programs. Then, the relationships between the planned programs and key parameters were defined using the Delphi method. PCA was used to identify key parameters having a great impact on rivers [7,8] or evaluation of spatial and temporal variations in water quality [9]. Meanwhile, many researchers have successfully applied AHP to determine the relative weights of available alternatives [4], for instance, the use of AHP for the water environmental-carrying capacity of a city in the Huaihe River Basin [10], the evaluation of urban river landscape design for Weihe River in China [11], and the development of a river water quality index for West Java, Indonesia [4]. All the inputs are then connected and used to perform uncertainty and sensitivity analysis.

In general, uncertainty and sensitivity analysis can be carried out by analytical and the probabilistic methods. The Delta method is a widely used analytical method compared to other analytical methods, such as Rosenblueth's point estimation method and Harr's point estimation method [12]. Additionally, Monte Carlo simulation is one of the most popular probabilistic methods, which generates outputs from the range of input variables of a model, and then combines these outputs to show the effect of the input variability on the output [12,13].

In this study, Monte Carlo simulation was used to perform uncertainty and sensitivity analysis, which has been widely applied and is a suitable method for modeling [14]. For instance, it has been successfully used to identify the uncertainty and sensitivity of the Environmental Sustainability Index—ESI [15], West Java Water Sustainability Index—WJWSI [13], and performed for projecting uncertainty ranges [16]. It has also been used for uncertainty and sensitivity analysis of water quality parameters or pollutants in a river [17–19]. Monte Carlo simulation defines parameter model uncertainty through repeated iterations using the values of parameters, which are randomly selected within the identified probability distribution.

The principal objective of this study was to identify the most effective program to improve water quality in the Citarum River by performing models of water quality changes after the planned programs were conducted. If the most influencing programs are known, then the decision-makers can set pollution control programs in a more accurate, focused, and effective manner. This research contributes to scholarship on river water quality management by applying an integrated PCA, AHP, and Delphi method to obtain essential inputs for uncertainty and sensitivity analysis using Monte Carlo simulation, namely, (1) key parameters, (2) priority planned programs, and (3) interrelationships between programs and parameters and the level of successfulness of water quality control programs. Therefore, using these integrated methods to generate essential inputs of uncertainty and sensitivity analysis, a similar study with regard to water quality programs improvements can be replicated for other rivers nationwide or worldwide.

The following section introduces the study area and methodology used. In Section 3, we present the results. We discuss the results in Section 4, and the conclusions are presented in Section 5.

## 2. Material and Methods

### 2.1. Study Area Description

The Citarum River extends 297 km from its upstream catchment at Situ Cisanti, located at Mount Wayang, Bandung, and flows into the North Coast of Java Island, Muara

Gembong, Bekasi Regency, across thirteen cities. It serves as a raw source of drinking water and has been utilized as the irrigation water source for rice fields and the catchment and hydropower plants for Java and Bali [20,21]. Along the stream are three large reservoirs: Cirata, Saguling, and Jatiluhur Reservoir. The Citarum watershed covers fifteen subwatersheds and is divided into four segments, as illustrated in Figure 1. WJEA conducts regular monitoring on the Citarum River at seven sampling locations, as seen in Figure 1, including (1) Wangisagara, (2) Koyod, (3) Cisirung WWTP, (4) Nanjung, (5) Jatiluhur Reservoir Outlet, (6) Walahar Dam, and (7) Tunggak Jati.

Up to now, 15 agencies have monitored 356 monitoring points, resulting in a fragmented database that is difficult to use by policy-makers [22]. Several parameters were measured high and exceeded the effluent standard, such as nitrite, nitrate, BOD, COD, cyanide, chlorine, sulfide, and E. coli. Heavy metals were also high in the river segment, namely, cadmium, hexavalent chromium, zinc, mercury, lead, and copper [23].

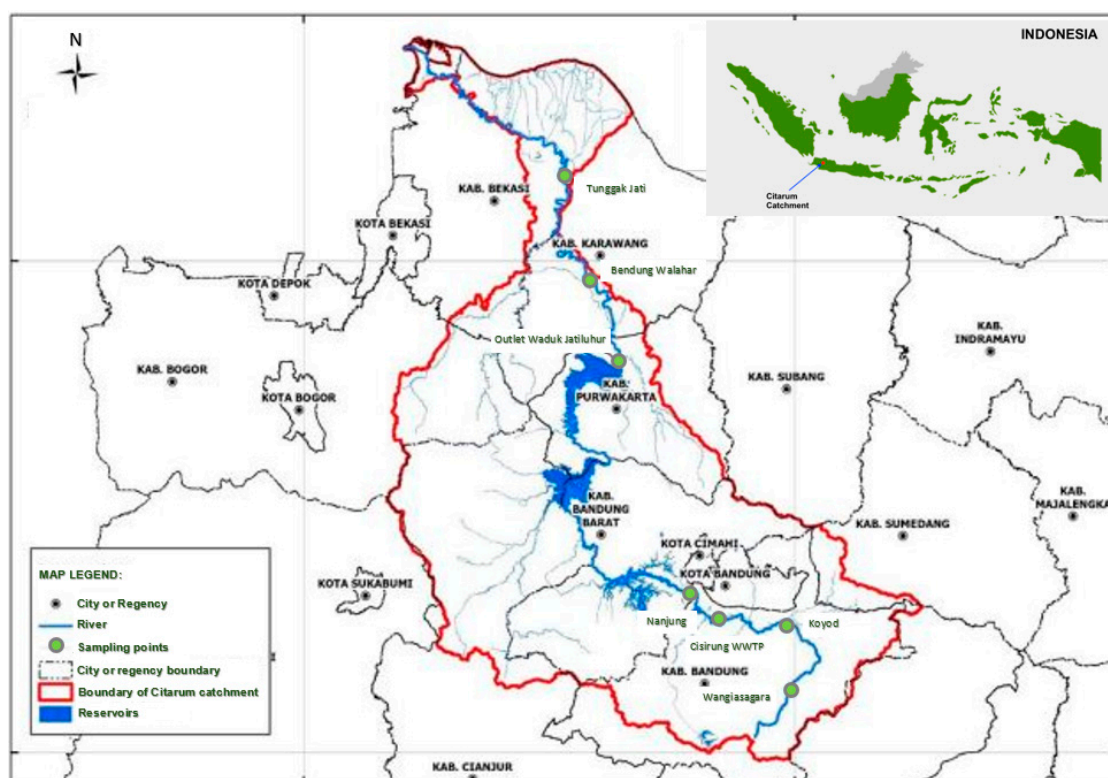


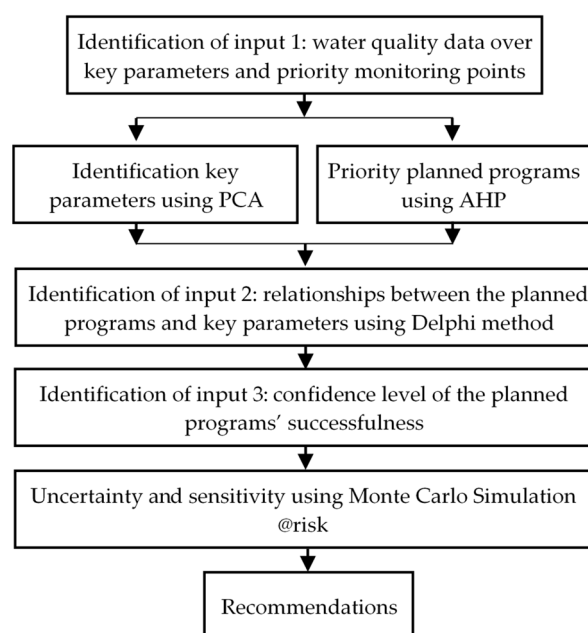
Figure 1. Citarum River monitoring locations, adapted from [24].

In alleviating pollution and damage to the restoration of the Citarum watershed, it is necessary to take accelerated and strategic measures in an integrated manner for control and law enforcement, which will integrate multistakeholders and the government. The President of the Republic of Indonesia stipulated Presidential Decree Number 15 of 2018 concerning the acceleration of pollution control measures to avoid severe impacts on the Citarum watershed [6]. The presidential decree led to the formation of twelve pollution control programs within the Citarum Watershed Management Action Plan, which was compiled by the pollution and damage control task force. For this study, we focused on eight major control programs: (1) Critical land management; (2) Industrial waste management; (3) Livestock waste management; (4) Domestic wastewater treatment plant planning and design; (5) Municipal solid waste management; (6) Open space utilization control; (7) Integrated water resources management, and (8) Water quality monitoring management.

## 2.2. Methodology

Uncertainty and sensitivity analysis aims to identify changes in water quality parameters implemented in the planned programs as defined in the pollution index. The expected output is to obtain the most effective program for water quality improvement. Meanwhile, the inputs being used were the level of confidence concerning the success of the planned programs, existing water quality parameters, and the relationship between key water quality parameters and the planned programs. Water quality as an uncertainty factor is caused by several monitoring sites (7 points) and the frequency of water quality monitoring (5 times a year), resulting in different results with large variation. In addition, we also considered the planned programs' implementation as an uncertain factor due to the various issues related to the success of the implementation. Therefore, identification of parameters, locations, and the planned programs are required.

Figure 2 presents the steps used for the uncertainty and sensitivity analysis in the study.



**Figure 2.** Steps used for uncertainty and sensitivity analysis in the study.

We selected critical parameters to focus on water quality data, input, and factors in a water quality model. The selected statistical method used was PCA. This method is a part of the multivariate analysis, which can provide a unique solution so that a very large number of variables can be reduced [25]. Mathematically, PCA starts from the covariance matrix, describing the dispersion of the measured variables, to obtain the variance of the Pearson product–moment correlation (eigenvalues) and a list of loading coefficients (eigenvectors) [9]. Linear combinations of the original variables and eigenvectors result in new uncorrelated variables, which are performed through varimax rotation, referred to as principal components (PCs) [7,9,26]. The equation used in performing PCA can be expressed as:

$$Z_{ij} = A_{i1}X_{1j} + A_{i2}X_{2j} + A_{i3}X_{3j} + \dots + A_{im}X_{mj} \quad (1)$$

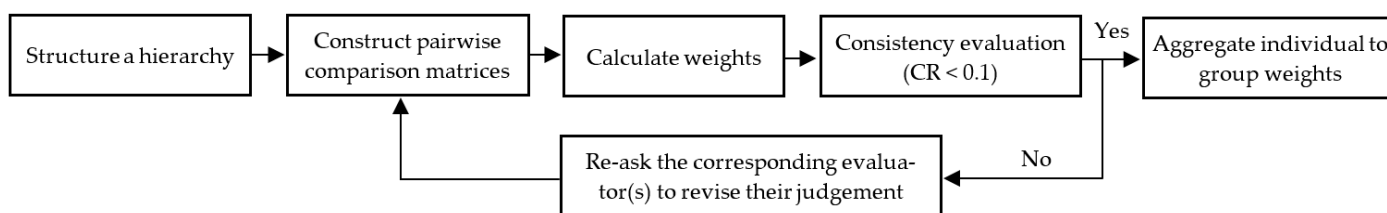
where  $Z$  = component score;  $A$  = component loading;  $x$  = measured value of variables;  $i$  = component number;  $j$  = sample number; and  $m$  = total number of variables.

In PCA, the original data matrix was standardized, followed by measurements of sampling adequacy and sphericity by the Kaiser–Meyer–Olkin (KMO) and Bartlett's tests; the eigenvectors corresponding to the eigenvalues were used to transform the normalized data into the principal component, and finally, the number of principal components was determined by the cumulative contribution of the variance [7]. We can find the application of PCA in many areas, such as data microarray [27]. Water monitoring variables have been

reduced into three components, representing (a) domestic, (b) industry, and (c) animal husbandry and fishery.

The study also focused on monitoring points of the most prioritized subwatershed to serve as input for authorities to conduct monitoring programs. For this sake, AHP was used to identify the priority level of control programs in certain prioritized segments and subwatersheds across the Citarum, along with priority water quality monitoring points conducted by WJEA. According to Saaty [28], AHP is generally a method used to support the decision-making process using varied criteria by comparing weights among those factors or criteria [29]. A few recent studies have also used it to identify weights, as found in [1,30–33]. AHP has advantages, i.e., readily understandable and easily implemented [34], provides a better focus on decision-making criteria [35,36], and integrates the diverse judgments and preferences [37–39]. Just as with any research tool, disadvantages exist in AHP, such as unclear guidance on structuring the problem [40], different competing preference point scales and aggregation methods to be used [36], and it is almost impossible to perform completely consistent pairwise comparisons if there are more than nine criteria [41]. However, compared to other available methods, AHP is the most commonly used to determine the weights of alternatives [41,42]. We used AHP since the advantages outweigh the disadvantages; hence, AHP was an attractive tool that can be used to establish weights.

Steps used for establishing the weights are structuring a hierarchy, constructing pairwise comparison matrices, calculating weight (i.e., the priority eigenvector), evaluating the consistency, and aggregating individual weights to group weights, as presented in Figure 3.



**Figure 3.** Main steps used in AHP.

The principal eigenvector, the consistency index, and the consistency ratio of AHP can be estimated by solving Equations (2)–(4):

$$Aw = \lambda_{\text{Max}}w \quad (2)$$

$$CI = (\lambda_{\text{Max}} - N)/(N - 1) \quad (3)$$

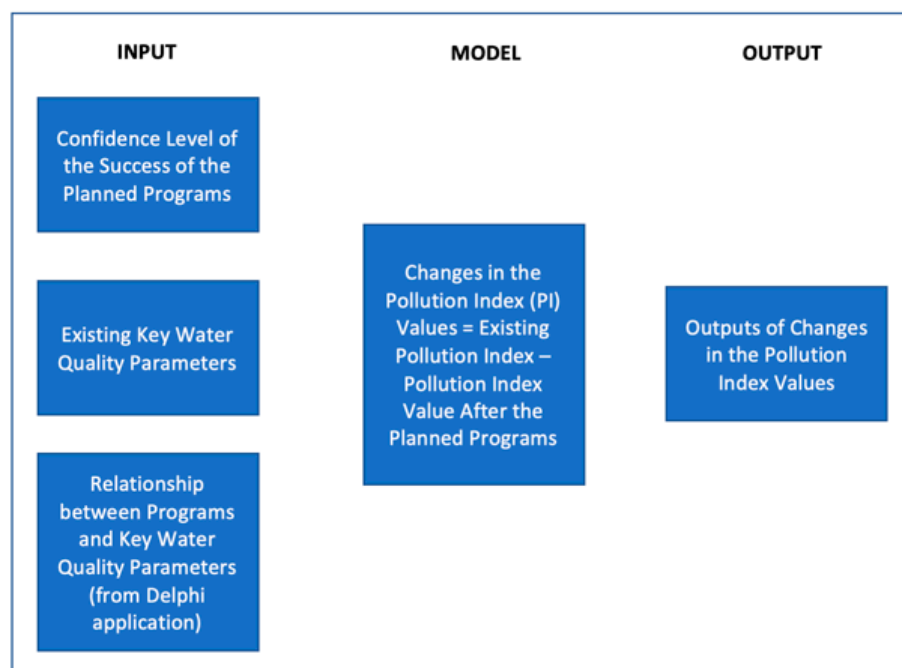
$$CR = CI/RI \quad (4)$$

where  $A$  = matrix  $A$ ;  $w$  = principal eigenvector;  $\lambda_{\text{Max}}$  = largest eigenvalue of the matrix  $A$  and corresponding eigenvector  $w$ ;  $CI$  = consistency index;  $N$  = dimension of the matrix;  $CR$  = consistency ratio, and  $RI$  = random index value.

To analyze associations between the planned programs and related parameters, we needed an assessment for level linkages among the planned associated programs and parameters. The study used the Delphi method to collect the values of those linkages. The Delphi is one of the methods to obtain a panel of expert judgments; without any necessity, they gather at the same time and place [43]. It has been widely applied in many areas, one of which has been used to define selected parameters of the water quality index [44] and has advantages in identifying and making a decision based on respondents' questionnaires [45]. We selected the Delphi method from many group decision-making methods since it ensures that inputs from all related stakeholders can be processed appropriately [45], providing sufficient time for experts to give their opinions and reducing variances in judgments [46]. The Delphi method has been applied in several fields to develop, identify, model, and validate data [47], defining parameters for the water quality index [44].

This study obtained the relationships between the planned programs and key parameters from extensive literature and expert judgments using questionnaires. The related stakeholders who participated in this study were selected from universities, environmental consultants, the government, and the community. Additionally, in-depth interviews were also conducted to gather the convergence of the respondents' final opinions. The application of the Delphi method consists of a few steps, including identification of the related stakeholders, questionnaire design and distribution, collection of completed questionnaires, and result analysis [45]. The method used was proportional to the level of relationships for each program, so we obtained their contribution values. The results of those assessments provided different range values. These differences led to uncertainty and were then analyzed using the same approach as the previous uncertainty.

In the uncertainty and sensitivity analysis of the study, a model was made to present relationships between sources of pollutants and levels of pollution in the Citarum River, to define increasing or decreasing parameter concentration related to the planned pollution control programs applied to the Citarum River. The model inputs were the confidence level of the twelve pollution control programs' success, existing data of key water quality parameters, and the relationship between key water quality parameters and the planned programs. The output from these simulation models was the Citarum River pollution level stated in the pollution index. Figure 4 presents framework for the Monte Carlo simulation used in this study.



**Figure 4.** Framework for the Monte Carlo simulation.

The simulations were statistical correlations resulting in equations. In this analysis, it would be identified sources of pollutants and influence significance to output variables. Five thousand uncertainty and sensitivity analysis simulations were carried out to obtain representative data. These analyses can define the level of water quality index confidences modeled [13].

### 3. Results

#### 3.1. Identification of Key Parameters

For the Citarum River, key monitored parameters likely affected by the implementation of control programs were unclear. Using PCA, we selected the key parameters to focus on the water quality data, known as essential inputs and factors in the overall Citarum water



quality model. Key parameters were identified by statistical analysis using thirty-three water quality parameters measured by the WJEA. Based on the interpretation of factors, key parameters for the domestic, industrial, and livestock sectors were obtained for each monitoring point, shown in Table 1. Determination of key pollutants was carried out at each monitoring point (seven locations), as identified in Figure 1.

**Table 1.** Summary of the selected key parameters.

Location <sup>a</sup>	Industry	Domestic	Livestock
1	Pb	COD	Fecal Coliform
2	Pb	Fecal Coliform	Nitrate
3	Cd	BOD	Fecal Coliform
4	Fe	Fecal Coliform	Nitrate
5	Mn	BOD	Fecal Coliform
6	Pb	Fecal Coliform	Nitrite
7	Mn	BOD	Fecal Coliform

Note: <sup>a</sup> see Figure 1.

The results of PCA analysis for all monitoring points reduced the initial water quality parameters from thirty-two to only three key parameters. To meet the requirements of the PCA method, we ensured that the test results were valid because they passed through testing all requirements and seven stages of the PCA method [43], namely, (1) Kaiser–Meyer–Olkin testing, (2) community testing, (3) total variance testing, (4) scree plot testing, (5) component matrix testing, (6) rotated component matrix testing, and (7) factor interpretation. Based on the analysis of each stage, all monitoring points produce different key parameter results. This is because the characteristics at each point are also different.

### 3.2. Determination of Prioritized Points in the Citarum Watershed

We selected the water quality data for this research from a monitoring location in the most prioritized subwatershed of the Citarum. In this study, we identified priority levels of subwatersheds and segments within the Citarum watershed. Therefore, at this stage, the aim was to make a priority arrangement of (1) segments, (2) subwatersheds from priority segments, and (3) monitoring points on the Citarum River. The method used in determining the priority arrangement was scoring and weighting, based on criteria that affect the water quality of the Citarum. The weighting process was done using AHP, a globally well-known framework for identifying the weighting criteria. Questionnaires circulated to experts were collected and then analyzed, which took about one month to complete. The results for each factor's scoring and weighting are shown in Table 2. In this study, three evaluators were dismissed since they provided inconsistent judgments. Even though additional time was given to revise their judgments, they did not respond nor return their answers. Therefore, only seven out of the initially selected ten stakeholders were used for further analysis to obtain the weights of levels for the subwatersheds and segments. This value met the consistency ratio below 10% [8]. The consistency value for each evaluator can be seen in Table A1 of the Appendix A. After determining the weight of each aspect, scoring was done subsequently.

**Table 2.** The weighting of segment selection.

Criteria	Weight	Priority	Parameter	Score <sup>a</sup>
Water quality status	0.23	2	Consistency Vector Mean	5.084
Pollution loading	0.30	1	Consistency Index (CI)	0.021
Land use	0.17	4	Consistency Ratio (CR)	1.89%
Population	0.20	3	Result	Consistent
Land area	0.10	5		

Note: <sup>a</sup> score was calculated using the AHP method.

Based on the scoring and weighting process, we found that the priority for Citarum River management was in segment 1, the Cisangkuy subwatershed, specifically at the monitoring point of location 3 (Cisirung WWTPs). Therefore, the next stage was to focus on this monitoring point. The overall order of priority on the Citarum River management is shown in Table 3, as follows:

**Table 3.** Order of priority for the Citarum River management plan.

No.	Segment	No.	Subwatershed
A-1	I	B-1	Cisangkuy
		B-2	Cikapundung
		B-3	Cihaur
		B-4	Citarik
		B-5	Cirasea
		B-6	Ciwidey
		B-7	Cikeruh
A-2	IV	B-8	Citarum Hilir
		B-9	Cibeet
		B-10	Cikao
A-3	II	B-11	Cisokan
		B-12	Cimeta
		B-13	Ciminyak
A-4	III	B-13	Jatiluhur
		B-14	Cikundul

### 3.3. Association between Program and Parameters

Out of the twelve pollution control programs, those directly related to water quality pollution were selected. The association between programs and parameters was one of the inputs in the model, expressed by the level of confidence of the experts or stakeholders on the effect of implementing the pollution control program on the key parameters. The value of the association between each control program with key parameters was obtained by taking opinions from experts. The linkage values were collected using the Delphi method through a few steps: identifying stakeholders, designing questionnaires, distributing and collecting questionnaires, and analyzing results. The overall process of this Delphi method needed one month to be completed.

The output at this stage was the confidence distribution frequency and the range as input in the model. Respondents consisted of the academic sector, community groups, and the government sector. Twenty-six respondents were willing to participate in this questionnaire. Respondents comprised 50% of the academic sector, 12% of community groups, and 38% of the government. All selected respondents have strong links to environmental management, water quality management, and the Citarum River. Respondents were asked to rate the relationship on a scale of 1–5, representing a 0–100% value. All the results of the Delphi questionnaire were then used as input for the uncertainty and sensitivity analysis.

### 3.4. Confidence Level in a Successful Program Implementation

The level of confidence in the program's success was one of the model's inputs, expressed by the percentage of successful program implementation achievements from 2019 to 2020, namely, the success rate of program implementation in one year. The achievement of the pollution control program implementation would affect the effect of the successful implementation of the program on the parameters: the higher the program implementation achievement, the greater the value of program implementation's influence on water quality. All existing value data were obtained from each Citarum River pollution control working group and the West Java Planning Agency in the form of a Carryover Target Program Achievement document dated 14 July 2020. All data obtained represent the pollution

control program's success in the entire Citarum River watershed. Table 4 presents the calculation of the confidence level of the pollution control program's success.

**Table 4.** Confidence level in the pollution control program's success.

Program	Confidence Level
Critical Land Handling	0.04%
Industrial Waste Handling	34.20%
Livestock Waste Handling	35.00%
Domestic Waste Handling	3.52%
Waste Management	45.81%
Spatial Arrangement	0.00%
Water Quality Monitoring	17.65%
Water Resources Management	50.00%

### 3.5. Uncertainty and Sensitivity Analysis

In this stage, we created a model to identify quality changes in the key parameters after implementing the pollution control program. This stage aimed to determine the relationship between input and output to identify the influential input. The output was (1) the pollution control program that most affects each key parameter, (2) the key parameters most affected by the implementation of the entire pollution control program, and (3) the pollution control program that affects the key parameter's pollution index, and the probability range of the pollution index reduction in percentage.

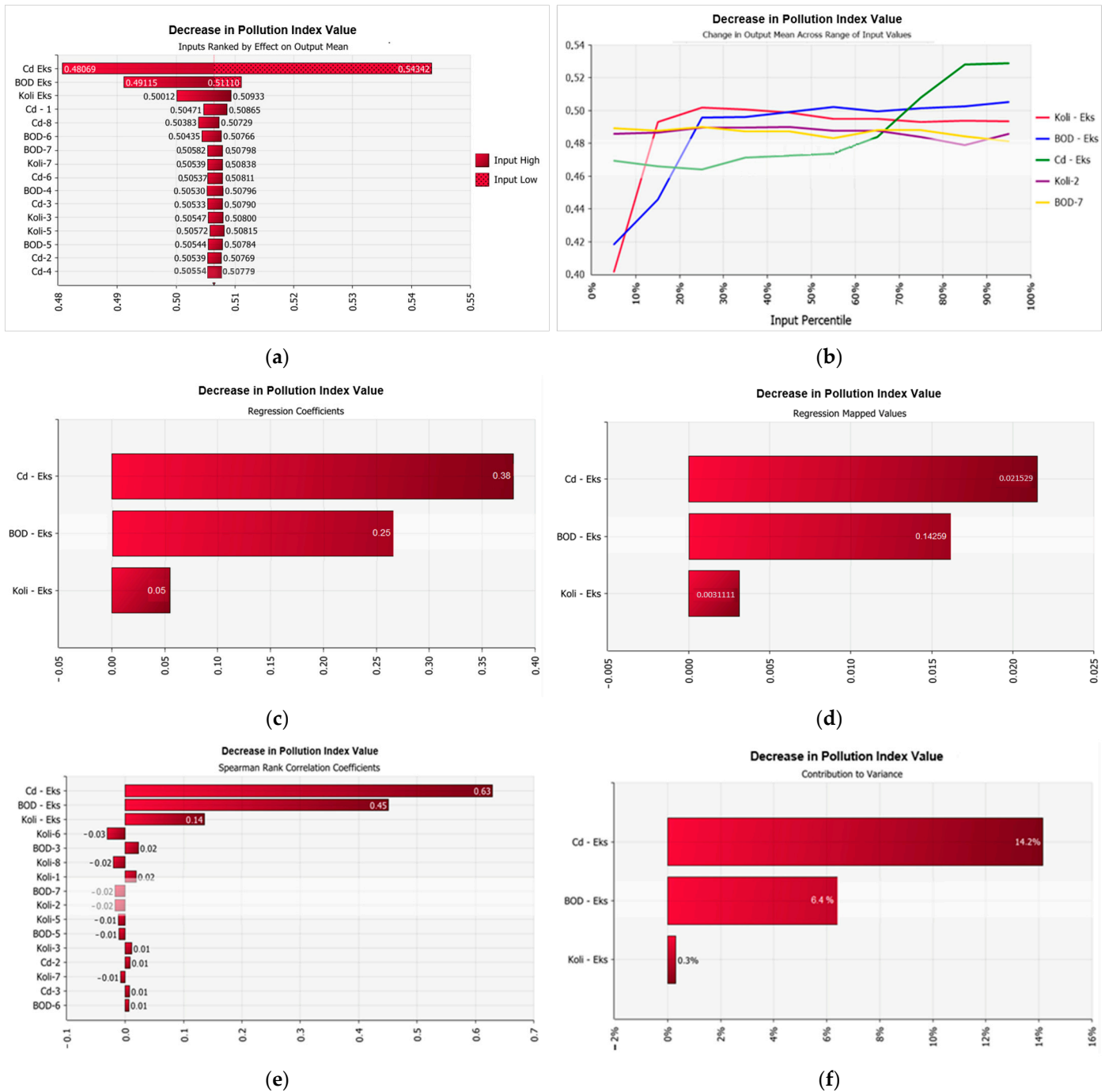
The inputs used were (1) key parameters of water quality, which are Cd, BOD, and fecal coli with the location focus on monitoring point 3, Cisirung WWTPs; (2) the association of eight pollution control programs with three key parameters; (3) the confidence level in the pollution control program's successfulness. These inputs were used to identify the water quality concentration related to the pollution control program. Based on all the specified inputs, we implemented Monte Carlo simulation by using @Risk Software in the next stage. The output of this simulation model was the pollution index. The simulation of uncertainty analysis was taken from as many as 5000 runs so that the simulation produced representative data, as presented in Figure 5a–f.

Uncertainty analysis in this simulation was intended to test the uncertainty of the input, which had the highest sensitivity to the output. The step taken to perform uncertainty analysis was determining the distribution pattern of the inputs. The distribution pattern for the three water quality parameters, Cd, BOD, and fecal coli, was exponential, Kumaraswamy, and gamma, respectively. In addition, there were distribution patterns for 24 program and parameter linkages. After knowing the distribution pattern, simulation of the output was carried out 5000 times. In the Monte Carlo simulation, the value of the three inputs is one by one to simulate the pollution index so that the pollution index was obtained after the simulation. The output used in the analysis was the output of decreasing the total pollution index from all pollution control programs and all key parameters, which covers all inputs used.

We used the Monte Carlo simulation to ensure that we were able to calculate all inputs based on their distribution pattern, which is one of the advantages of this method. The simulation calculated the pollution index based on the association between input and output equations to determine which input uncertainty affects the output sensitivity. The association between the determined input and output equations was linear. The simulation of pollution index was calculated based on the existing pollution index with the added influence factor, program linkage, and program success. Because the association was linear, the input with the highest uncertainty was the variable that most affected the sensitivity of the output.

The analysis used the output from 5000 simulations and applied the features of the Risk software by analyzing the tornado and spider graphs, according to Figure 3. The entire graph has the same analysis result. The highest value indicates the input with the highest

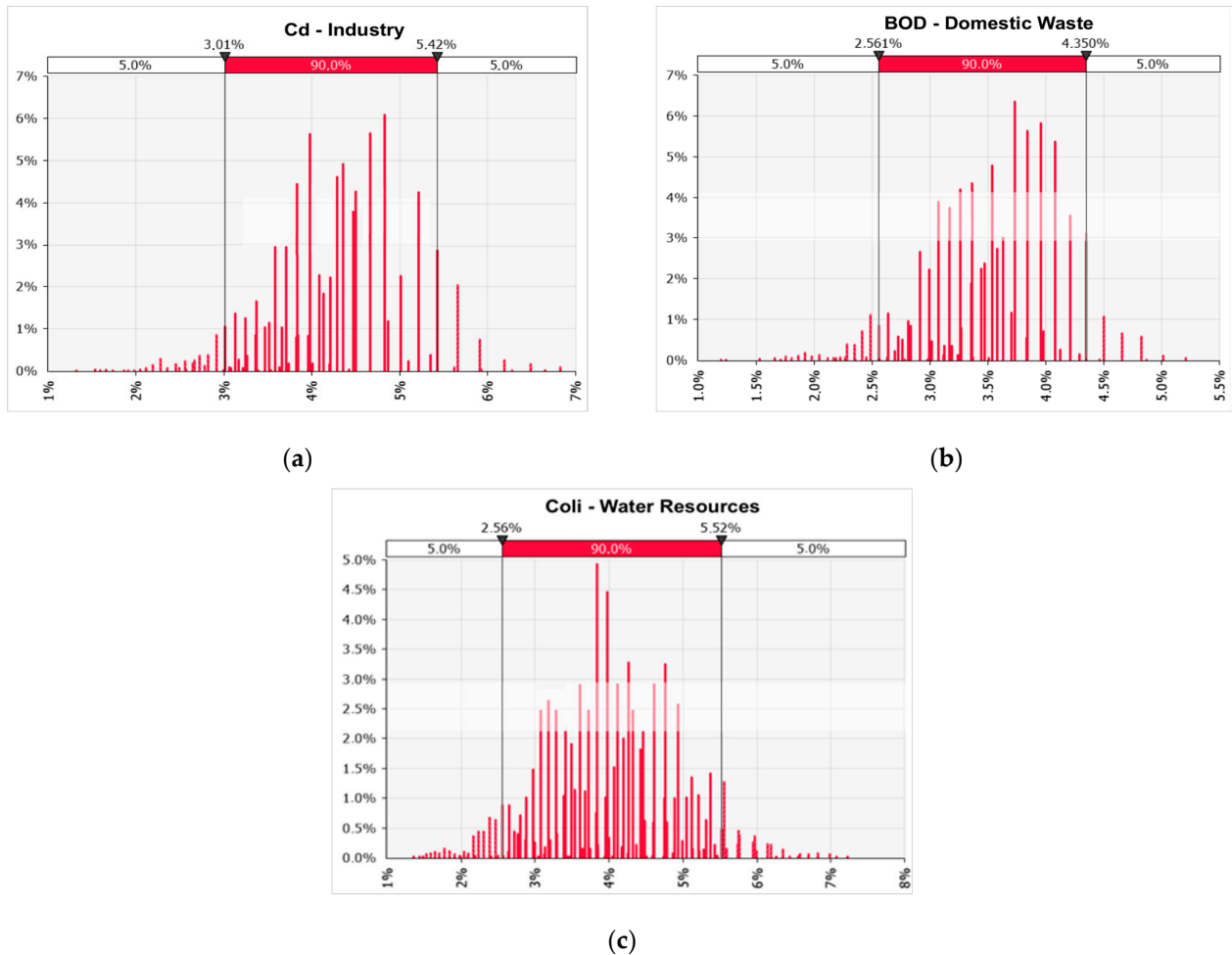
uncertainty and affects the most output sensitivity. Based on the results of visual analysis, the input that had the most influence on the output was the existing water quality data of key parameters, namely, the specifics for Cd, BOD, and fecal coli (Figure 5a,b). Similarly, how those parameters (Cd, BOD, and fecal coli) affect the value of the pollution index can also be explained by the regression values between each of the three parameters and their respective pollution index, as shown in Figure 5c,d. In addition, Figure 5e,f show the superiority of Cd, BOD, and fecal coli parameters when their correlation coefficients and contributions to variance are compared.



**Figure 5.** Uncertainty input: (a) tornado—change in output statistic; (b) spider—change in output statistic; (c) tornado—change in regression coefficient; (d) tornado—regression mapped values; (e) tornado—correlation coefficient; (f) tornado—contribution to variance.

### 3.5.1. The Pollution Control Program That Most Affects Each Key Parameter

This analysis aimed to see the sensitivity of the planned programs to water quality parameters. The program success value in this analysis was the average of all successes or was considered constant for each parameter. The sequence of programs that had the most effect on each parameter is shown in Figure 6 and Table 5.



**Figure 6.** Simulations of the relationship between the pollution programs to each key parameter: (a). *Cadmium* with Industrial Waste Treatment Program; (b). *Biochemical Oxygen Demand* with Domestic Waste Treatment Program; (c). *Fecal Coli* with Water Resource Improvement Program.

**Table 5.** Programs that most affect the parameters.

Cd	BOD	Fecal Coli
Industrial Waste Handling	Domestic Waste Handling	Water Resources Management
Water Resources Management	Livestock Waste Handling	Domestic Waste Handling
Water Quality Monitoring	Waste Management	Livestock Waste Handling
Waste Management	Industrial Waste Handling	Water Quality Monitoring
Spatial Arrangement	Spatial Arrangement	Waste Management
Critical Land Handling	Water Quality Monitoring	Spatial Arrangement
Domestic Waste Handling	Water Resources Management	Critical Land Handling
Livestock Waste Handling	Critical Land Handling	Industrial Waste Handling

Figure 6a shows that with the 90% confidence level, the Cd parameter might change in the range 3.01–5.42% from its original value when the Industrial Waste program was applied. Figure 6b,c provide similar information for the other two key parameters related to their respective programs: BOD with the Domestic Treatment program and fecal coli

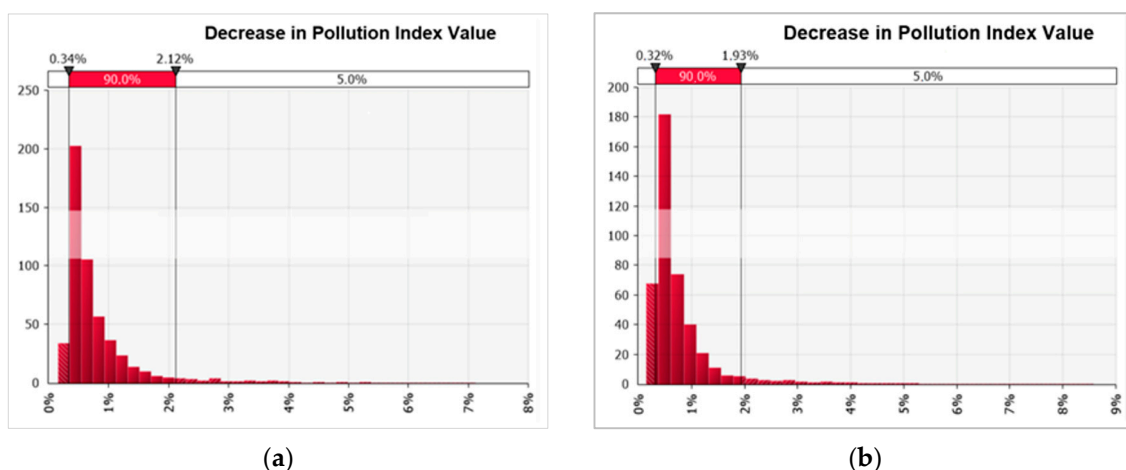
with the Water Resource program. For the BOD parameter, based on the Monte Carlo simulation with the confidence level of 90%, as shown in Figure 5b, the Domestic Treatment program might change the BOD value within the range 2.56–4.35% from its original value. With the same confidence level, the value of original fecal coli value might be affected by the Water Resource program, within the range 2.56–5.52%.

### 3.5.2. The Key Parameters Most Affected by All Pollution Control Programs

If all programs were implemented, the sensitivity for the Cd parameter was in the range 4.9–48.46% (minimum to maximum). The value for BOD was 5.34–41.3%, while that calculated for fecal coli was 4.8–46.53%. Based on the average value, with the implementation of all programs, it is shown that Cd was the most influential key parameter.

### 3.5.3. The Pollution Control Program That Most Affects the Key Parameter's Pollution Index

At this stage, we examined the sensitivity of each program to all water quality parameters. We identified sensitivity by investigating the effect of each program on the pollution index for the Cd, BOD, and fecal coli parameters, as presented in Figure 7. The implementation of the most effective program was domestic waste management with an average of 0.8%, followed by livestock waste management (an average of 0.7621%), waste management, and water resources management.



**Figure 7.** Percentage of reduction in pollution index in the program: (a) domestic waste handling; (b) livestock waste handling.

## 4. Discussion

Our results show that key parameters of water quality will be affected differently by different water management programs. For the Cadmium (Cd) key parameter, this research indicates that its value is affected the most by Industrial Waste Handling, Water Resource Management, and Water Quality Monitoring. The Cd key parameter is affected the most by the Industrial Waste Handling because the main Cd pollution source is mostly industry, as pointed out by Roosmini et al. [48], Wardhani et al. [49], and Wulandari et al. [50]. Hundreds of industries use the Citarum River as their main wastewater discharge [51–53]. Cadmium is utilized by many industries, such as metals, paints, and steel [48,50]. In the Citarum cases, Cadmium has settled into sediments and potentially causes damage to plants and other living organisms. One of the critical consequences of Cadmium content in the Citarum River is that raw water for various water treatment plants in West Java is taken from the Citarum River. Shara et al. [54] found that the Cadmium level in the Citarum River already exceeded the threshold, which is potentially reaching customers of water companies in many areas of West Java.

It is also worth noted that compared to other key parameters, Cd is the parameter with the highest sensitivity value. This means, in this study, that Cd is the parameter that

affects the value of the pollution index the most. Any changes in the value of Cd will have considerable changes in the value of the pollution index of the Citarum River, as the results of both statistical inputs and expert judgments, as explained in the previous subsection. Therefore, in the future, there should be emphasis on how to control and manage the leaching of Cadmium to the Citarum River.

As for BOD, as another example of how a key parameter is affected by different water management programs (see Figure 6), results show that its values are affected most significantly by the Domestic Waste Handling program. This is relevant to various research and literature indicating a strong relationship between BOD and domestic activities, which highlights a considerable increase in BOD in the river as domestic activities intensify [55–58]. In many subwatersheds of the Citarum, domestic pollution contributes to the increase in the BOD parameter above its maximum pollution load [55,56]. Thus, as indicated by this study, in the future, priorities should be given by local and national authorities to programs with a strong emphasis on reducing river pollution caused by household activities.

The other notable parameter is the fecal coli, which is mostly affected by the Water Resource programs undertaken by the provincial government of West Java, as also shown by previous studies, which include land-use management [59,60], law enforcement [61,62], and relocation of slum areas located on river banks [63,64]. Thus, in the future, such programs should be further encouraged and extended to ensure their impacts on the reduction in fecal coli levels in the Citarum River.

As indicated earlier, the sensitivity analysis in this study shows that the most effective program undertaken by the different institutions for the Citarum River is the domestic waste management program (Figure 7), which includes the programs such as wastewater treatment plants [60,65,66], education for mothers living close to the river [67–69], and encouraging community groups to raise social awareness on preventing river pollution [70–72].

Concerning the adopted method used in this study, the weighting process was done using AHP, a globally well-known framework for identifying the weighting criteria. However, we understood that AHP has drawbacks, as mentioned in the methodology section. The use of the original AHP might be the limitation of the study. Therefore, other better methods for determining weights, as they are proven in other areas, should be considered for use in future research. For example, in the transportation sector, recently, there have been main extensions of AHP proposed by some scholars. The fuzzy AHP–linear assignment model has been applied to eliminate untrustworthy responses of the participants and avoid subjectivity in responses [73]. Interval AHP has been performed to attain a consensual preference ranking [74]. A hybrid approach, the fuzzy AHP–interval AHP considers specific group interests of decision-makers [75]. An integrated gray AHP and the Multiobjective Optimization by Ratio Analysis (MOORA) model decreases the subjectivity of the decision-makers [76]. Integration of the AHP–Best Worst Method (BWM) reduces time consumption [77]. Application of the Pareto optimality test in AHP has been proposed to obtain optimality of the eigenvectors while determining weights for alternatives or criteria [78].

Further, along with its merits, for future use of similar methods, in particular methods related to expert judgments as was used in this study, the selection of experts for AHP and Delphi method should be carefully undertaken. The experts to be selected should be representing different expert groups, such as academicians, governmental institutions, the community, and other related groups. In addition, it is important to note that such expert judgment exercises might be time-consuming, both for the respondents (the evaluators) and the researchers. Respondents may spend a significant amount of time giving their judgment when managing a large number of pairwise comparison matrices [41]. To reduce this issue, for at least  $5 \times 5$  pairwise comparison matrices or more, it is suggested to integrate the BWM model in AHP [77] or decompose the complex problem into simpler and more logical judgments of the attributes [79].

## 5. Conclusions

This research examined the effective implementation of water quality improvement programs for the Citarum River, West Java, Indonesia, by using uncertainty and sensitivity analysis. Our research shows that industry, domestic, and animal husbandry parameters for each monitoring point were Cd, BOD, and fecal coli. Furthermore, we identified that the most significant key parameter influencing outputs was only Cd. This study also showed that the most influencing programs for pollution control in the Citarum were the planned programs related to the treatment of domestic wastewater. Using Monte Carlo simulation, we projected that there will be a range of increasing probability percentage in pollution index: a minimum of 2%, an average of 5.7%, and a maximum of 36.2%, if all the planned programs stated in the Action Plan were appropriately implemented in the Citarum watershed. This research offers a new approach to help policy-makers prioritize the measures to manage river water quality by considering three essential inputs: (1) key parameters, (2) priority planned programs, and (3) interrelationships between programs, parameters, and the level of successfulness of water quality control programs. Thus, a similar study can be replicated elsewhere.

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## Appendix A

**Table A1.** Consistency ratio value for each evaluator.

Evaluator	1	2	3	4	5	6	7	8	9	10
Consistency Ratio	0.02	<b>0.18</b>	<b>0.31</b>	0.04	0.02	0.00	0.02	0.01	<b>0.26</b>	0.02

Consistency ratio values greater than 0.10 are inconsistent and are in bold.

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