Environmental Science Water Research & Technology

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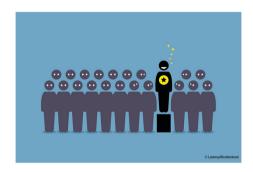
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Inside cover See Jiahai Ma et al., pp. 1785-1794. Image reproduced by permission of Jiahai Ma from Environ. Sci.: Water Res. Technol., 2024, 10, 1785.

EDITORIAL

Outstanding Reviewers for Environmental Science: Water Research & Technology in 2023



TUTORIAL REVIEW

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Process intensification in the fields to separate, recycle and reuse waste through membrane technology

Swapna Rekha Panda,* Sudeep Asthana, Krunal Suthar, Arvind S. Madalgi, Amit Kumar, Haresh Dave, Rakesh Kumar Sinha, Koshal Kishor and Ahmad F. Ismail*





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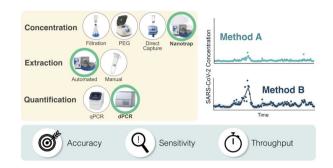
Fundamental questions Elemental answers

Registered charity number: 207890

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Wastewater-based protocols for SARS-CoV-2: insights into virus concentration, extraction, and quantitation methods from two years of public health surveillance

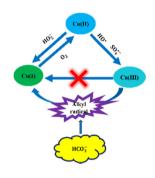
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Strongly enhanced persulfate activation by bicarbonate accelerated Cu(III)/Cu(I) redox cycles

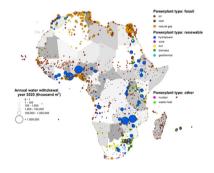
Jun Zhang, Shenjun Wang, Yuhao Wu and Jiahai Ma*



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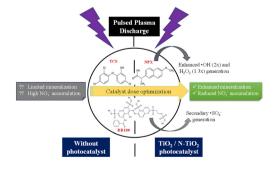
Spatially distributed freshwater demand for electricity in Africa

P. W. Gerbens-Leenes,* S. D. Vaca-Jiménez, Bunyod Holmatov and Davy Vanham*



Catalytic pulsed plasma treatment for organic micropollutants: unveiling the synergistic role of photocatalysts in radical generation and degradation mechanisms

Ritik Anand and Ligy Philip*



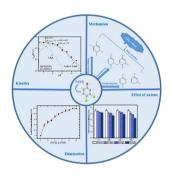
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Improved methanogenesis from aqueous pyrolysis liquid (APL) by inoculum selection and preozonation

Saba Seyedi,* Kaushik Venkiteshwaran and Daniel Zitomer

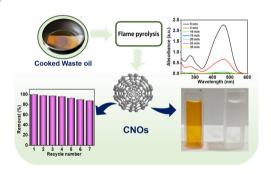
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Removal of 3,4-dichlorophenol from water utilizing ferrate(vi): kinetic and mechanistic investigations and effects of coexisting anions

Yiwen Luo, Qing Zheng, Zhiyong Luo,* Shuqing Xiang and Mei Dai

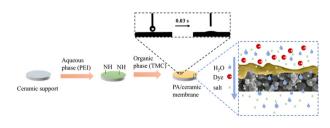
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Ecologically viable carbon nano-onions for the efficient removal of methyl orange azo dye and its environmental assessment

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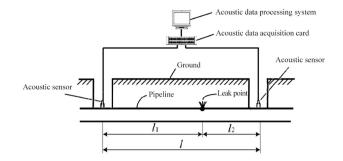
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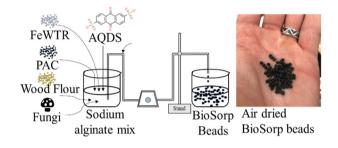
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Development of composite alginate bead media with encapsulated sorptive materials and microorganisms to bioaugment green stormwater infrastructure

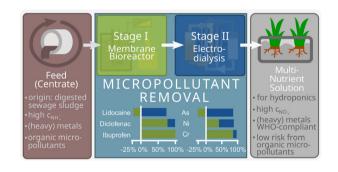
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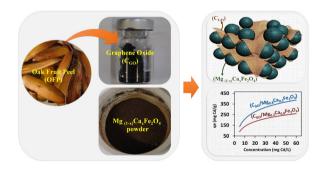
Multiple barriers for micropollutants in nutrient recovery from centrate - combining membrane bioreactor and electrodialysis

Paul Genz, Anna Hendrike Hofmann, Victor Takazi Katayama and Thorsten Reemtsma*

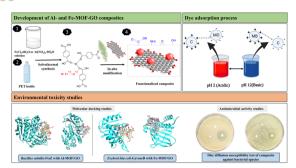


Resource utilization of oak fruit peel as biomass waste for the synthesis of carbon with graphene oxide-like composition and its composite with $Mg_{1-x}Ca_xFe_2O_4$ for Cd(II) removal from water: characterization, magnetic properties, and potential adsorption study

Younes Zohrabi, Mohammad Ebrahim Ghazi,* Morteza Izadifard, Alireza Valipour* and Sivasankaran Ayyaru*

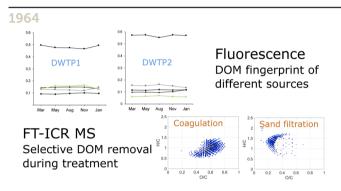


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Unveiling the dye adsorption capability of Moringa oleifera functionalized hybrid porous MOF-GO composites: in vitro and in silico ecotoxicity assessment via antibacterial and molecular docking studies

Anil Kumar K., Arpit Bisoi, Yeshwanth M., Shobham, Mohan Jujaru, Jitendra Panwar* and Suresh Gupta*



Molecular level seasonality of dissolved organic matter in freshwater and its impact on drinking water treatment

Anna Andersson,* Leanne Powers, Mourad Harir, Michael Gonsior, Norbert Hertkorn, Philippe Schmitt-Kopplin, Henrik Kylin, Daniel Hellström, Ämma Pettersson and David Bastviken