

Environmental Science Water Research & Technology

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IN THIS ISSUE

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See Martin M. Shafer *et al.*,
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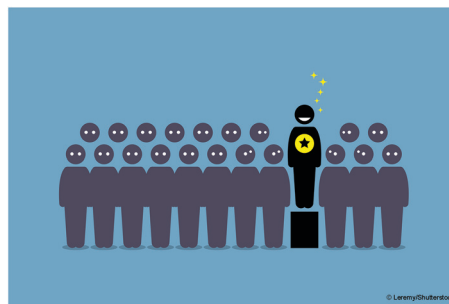


Inside cover
See Jiahai Ma *et al.*,
pp. 1785–1794.
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Res. Technol.*, 2024, **10**, 1785.

EDITORIAL

1737

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



TUTORIAL REVIEW

1738

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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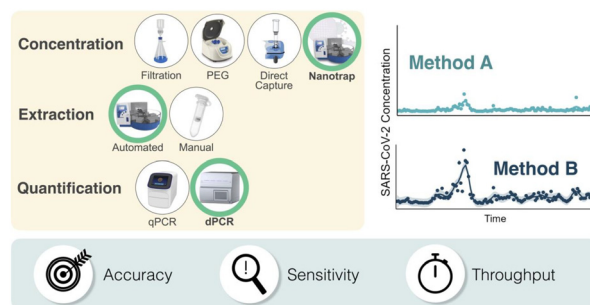


PAPERS

1766

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

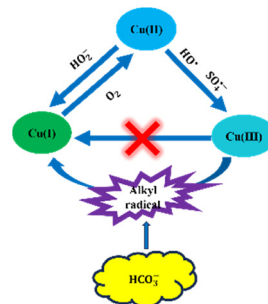
Dagmara S. Antkiewicz, Kayley H. Janssen, Adélaïde Roguet, Hannah E. Pilch, Rebecca B. Fahney, Paige A. Mullen, Griffin N. Knuth, Devin G. Everett, Evelyn M. Doolittle, Kaitlyn King, Carter Wood, Angellica Stanley, Jocelyn D. C. Hemming and Martin M. Shafer*



1785

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

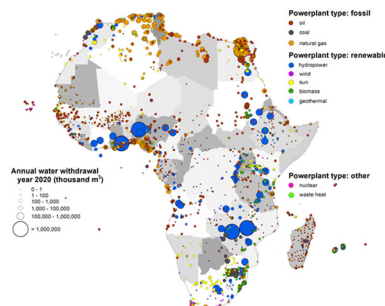
Jun Zhang, Shenjun Wang, Yuhao Wu and Jiahai Ma*



1795

Spatially distributed freshwater demand for electricity in Africa

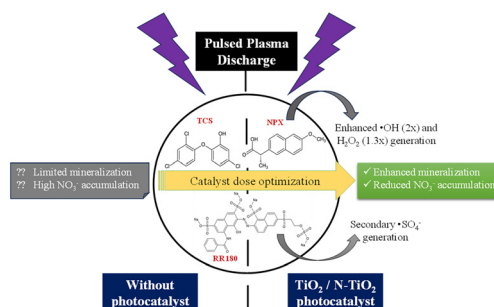
P. W. Gerbens-Leenes,* S. D. Vaca-Jiménez, Bunyod Holmatov and Davy Vanham*



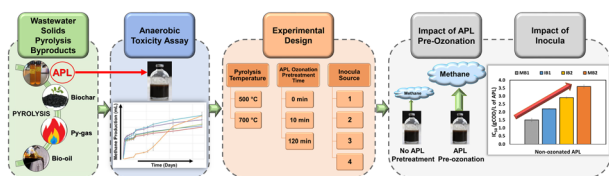
1809

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

Ritik Anand and Ligy Philip*



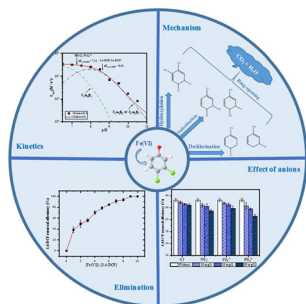
1827



Improved methanogenesis from aqueous pyrolysis liquid (APL) by inoculum selection and pre-ozonation

Saba Seyedi,* Kaushik Venkiteshwaran and Daniel Zitomer

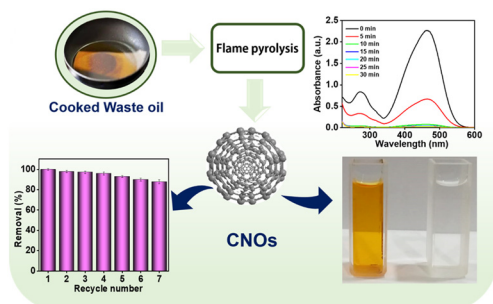
1840



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

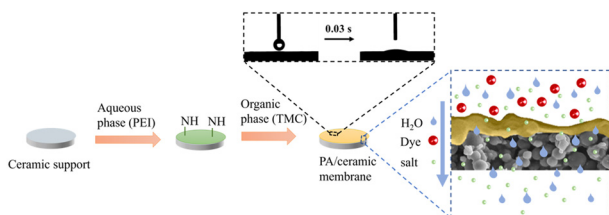
1856



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

Poonam Kumari, Kumud Malika Tripathi, Kamendra Awasthi* and Ragini Gupta*

1871



Constructing polyamide/ceramic composite membranes for highly efficient and selective separation of dyes and salts from solution

Yujie Zang, Linlin Yan, Tieying Yang, Kai Wang, Yingjie Zhang, Enrico Drioli, Jun Ma, Yonggang Li,* Shanshan Ji* and Xiquan Cheng*

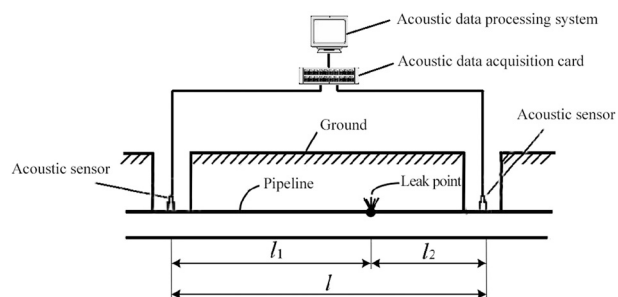


PAPERS

1881

Acoustic-based approach for micro-leakage detection and localization in water supply pipelines

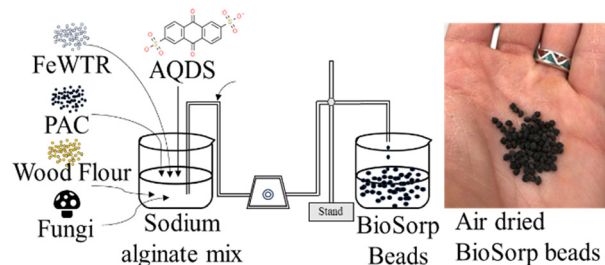
Cuimin Feng,* Jiancong Zhao, Qiangsan Ran, Mengchao Qu and Zixiao Guo



1890

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

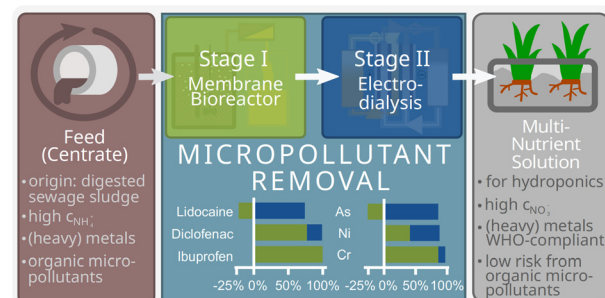
Debojit S. Tanmoy and Gregory H. LeFevre*



1908

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

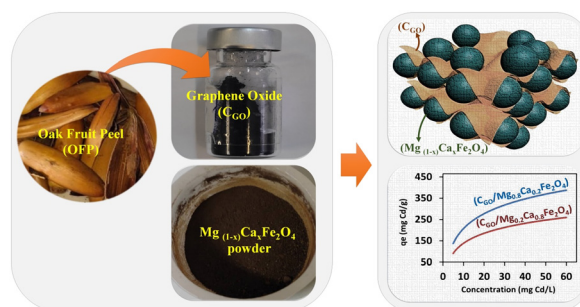
Paul Genz, Anna Hendrike Hofmann, Victor Takazi Katayama and Thorsten Reemtsma*



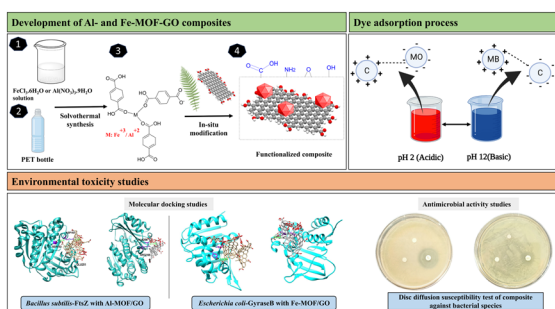
1920

Resource utilization of oak fruit peel as biomass waste for the synthesis of carbon with graphene oxide-like composition and its composite with $\text{Mg}_{1-x}\text{Ca}_x\text{Fe}_2\text{O}_4$ 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*



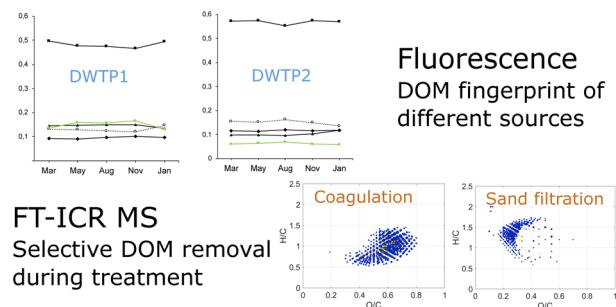
1938



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*

1964



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, Åmma Pettersson and David Bastviken

