

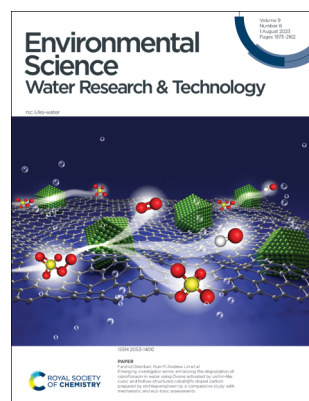
# Environmental Science Water Research & Technology

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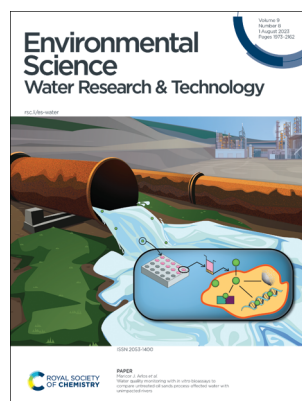
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## IN THIS ISSUE

ISSN 2053-1400 CODEN ESWRAR 9(8) 1973–2162 (2023)



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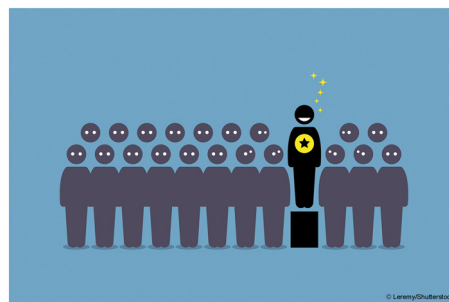


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## EDITORIAL

1981

**Outstanding Reviewers for *Environmental Science: Water Research & Technology* in 2022**

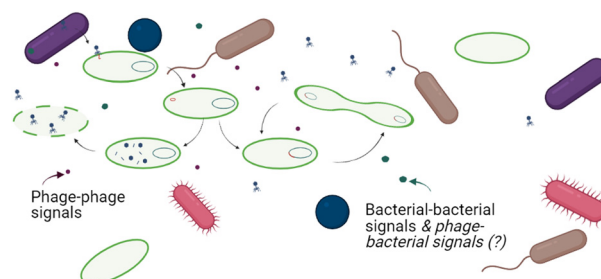


## FRT

1982

**Emerging investigator series: the role of phage lifestyle in wastewater microbial community structures and functions: insights into diverse microbial environments**

Jeseth Delgado Vela\* and Mitham Al-Faliti



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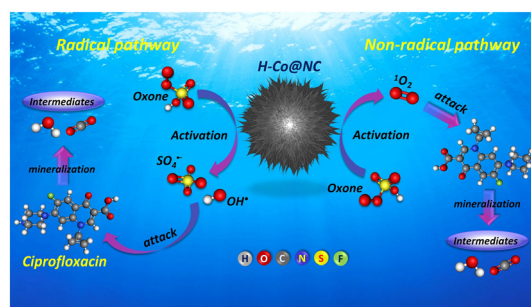
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1992

### Emerging investigator series: enhancing the degradation of ciprofloxacin in water using Oxone activated by urchin-like cubic and hollow-structured cobalt@N-doped carbon prepared by etching-engineering: a comparative study with mechanistic and eco-toxic assessments

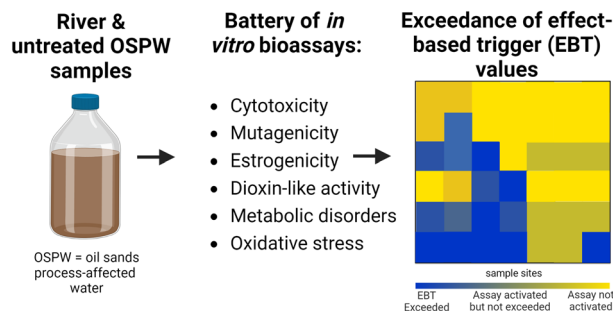
Duong Dinh Tuan, Young-Kwon Park, Jet-Chau Wen, Ha Manh Bui, Xiaoguang Duan, Farshid Ghanbari,\* Suresh Ghotekar, Wei-Hsin Chen and Kun-Yi Andrew Lin\*



2008

### Water quality monitoring with *in vitro* bioassays to compare untreated oil sands process-affected water with unimpacted rivers

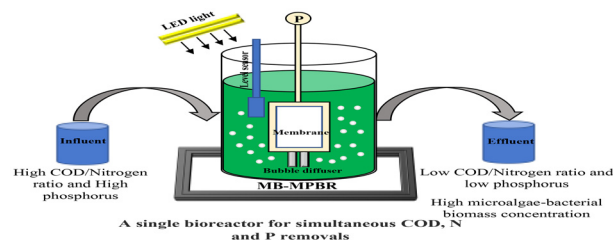
Kia Barrow, Beate I. Escher, Keegan A. Hicks, Maria König, Rita Schlichting and Maricor J. Arlos\*



2021

### Effect of the organic carbon to nutrient (N and P) ratio on the biological performance of a microalgal-bacterial membrane photobioreactor

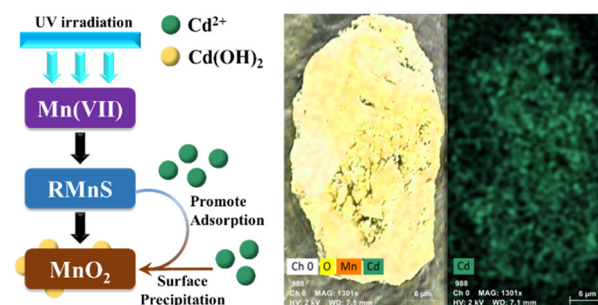
Hana Lafi, Umed Panu and Baoqiang Liao\*



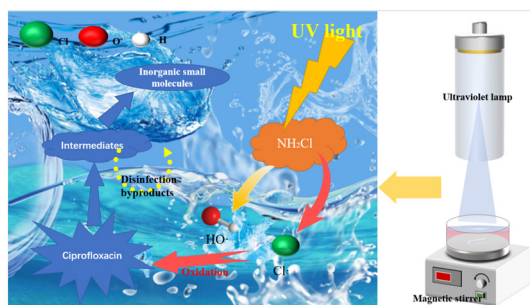
2031

### The removal of Cd(II) by the UV/permanganate process: role of continuously *in situ* formed MnO<sub>2</sub> and reactive species

Wenrui Wei, Xinwen Kang, Sining Wu, Virender K. Sharma, Ruijie Xie, Beicheng Xia, Kaiheng Guo\* and Jingyun Fang



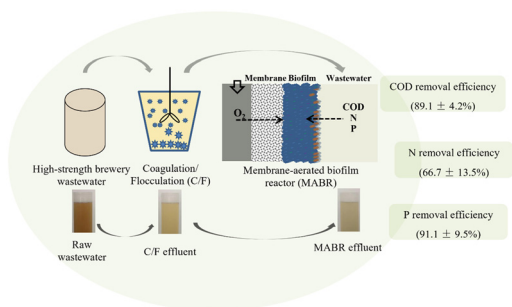
2041



### The degradation of ciprofloxacin in the UV/NH<sub>2</sub>Cl process: kinetics, mechanism, pathways and DBP formation

Ruihua Zhang, Cheng Peng, Qiongfang Wang,\*  
Xinyu Zou, Qiming Zhao, Jiajun Wang, Jiayu Zhang,  
Lei Dong, Xin Zhang and Naiyun Gao

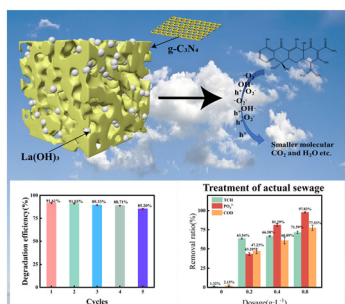
2053



### Evaluating the performance of an integrated membrane-aerated biofilm reactor (MABR) system for high-strength brewery wastewater treatment

Hailong Tian, Jisheng Zhang, Yifei Zheng,  
Guipeng Zheng, Yuanyuan Li, Yingchun Yan, Zhiwen Li\*  
and Ming Hui\*

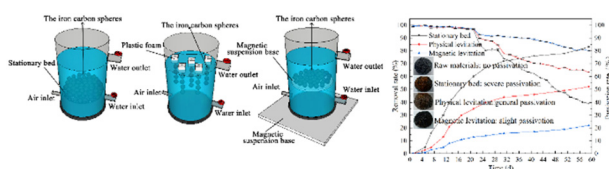
2065



### Visible-light driven tetracycline hydrochloride degradation by nano-lanthanum hydroxide modified carbon nitride: performance, mechanism, and application in real wastewater treatment

Jian Xiong,\* Hanghang Xu, Xuejie Yin, Bei Yang,  
Evangelos Petropoulos, Lihong Xue, Linzhang Yang  
and Shiyang He\*

2076



### Construction of a novel magnetic levitation iron-carbon micro-electrolysis treatment system for dye wastewater and its anti-passivation strategy

Zhihao Chen, Minquan Feng,\* Yibo Wang,\* Qi Ma  
and Qian Yin



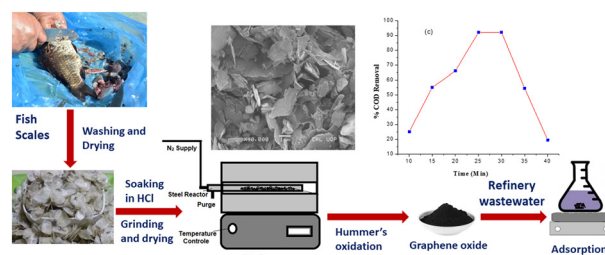


## PAPERS

2089

### Batch mode and continuous flow adsorption of hydrocarbon pollutants from refinery wastewater using graphene oxide derived from fish scales

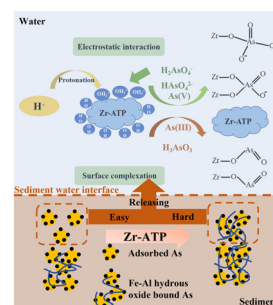
Waqas Ahmad, Sajid Ullah, Imtiaz Ahmad,  
Taj Muhammad, Yu Shuang Ren and Muhammad Ilyas\*



2099

### Enhanced remediation of As(III) and As(V) by new zirconium-loaded attapulgite and its mechanisms in the aquatic environment

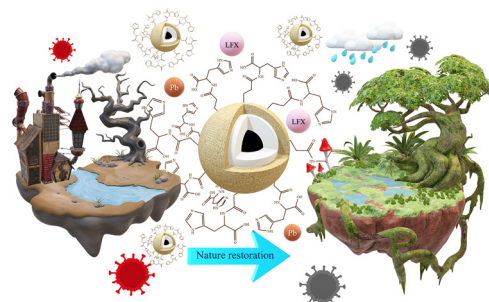
Jinhui Wang, Qin Sun,\* Qi Gao and Xinyu Sun



2112

### A magnetic nano-sorbent incorporating antimicrobial papain for the rapid and efficient removal of levofloxacin and Pb(II) from aqueous systems

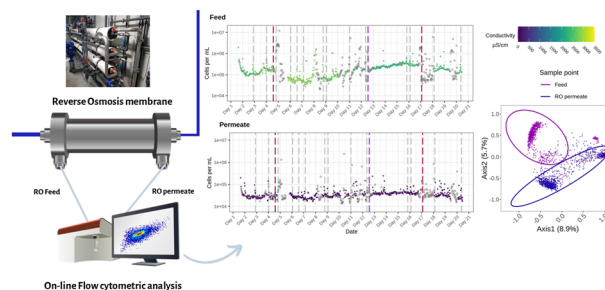
Mahdi Akhgari, Elias Mosaffa, Haniyeh Dogari,  
Nasim Amiri Ramsheh, Hossein Ghafuri\*  
and Atanu Banerjee



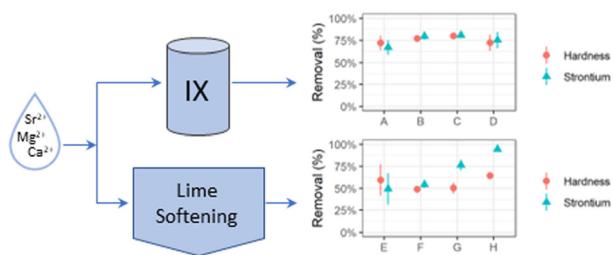
2128

### Flow cytometry for on-line microbial regrowth monitoring in a membrane filtration plant: pilot-scale case study for wastewater reuse

Thomas Pluym, Cristina García-Timmermans,  
Sander Vervloet, Riet Cornelissen, Nico Boon  
and Bart De Gussemé\*



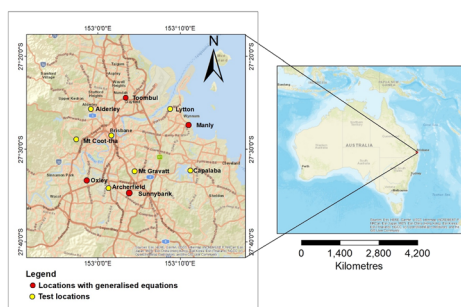
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### Removal of strontium by ion exchange and lime softening at eight drinking water treatment plants

Darren A. Lytle,\* Asher E. Keithley, Daniel Williams and Hannah Chait

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### Spatial sensitivity of generalised equations to predict rainwater tank outcomes: a case study for Brisbane

Mohammad Saarim Khan and Monzur Alam Imteaz\*

