### **Environmental Science** Water Research & Technology

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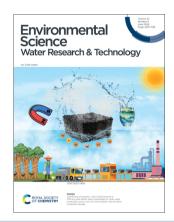
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Cover See Xinlei Jiang, Xin Wang et al., pp. 1355-1364. Image reproduced by permission of Xin Wang from Environ. Sci.: Water Res. Technol., 2024, 10, 1355.

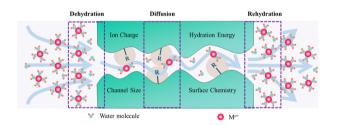


Inside cover See Laemthong Chuenchom, Decha Dechtrirat et al., pp. 1365-1376. Image reproduced by permission of Parichart Onsri from Environ. Sci.: Water Res. Technol., 2024, 10, 1365.

#### TUTORIAL REVIEW

Mechanism of lithium ion selectivity through membranes: a brief review

Jian Zhang, Qiang Gao, Bo Han\* and Chenggang Zhou

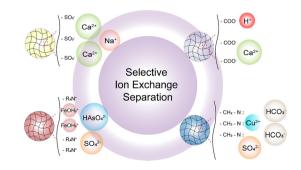


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Ion exchange enabled selective separation from decontamination to desalination to decarbonization: recent advances and opportunities

Dian Wang, Yunhao Zhang, Hang Dong,\* Hao Chen and Arup SenGupta\*





## **EES Catalysis**



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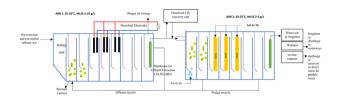
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Poh Lin Lau and Antoine P. Trzcinski\*

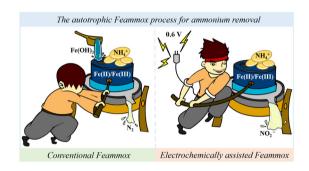


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Bioelectrochemically enhanced autotrophic Feammox for ammonium removal via the Fe(II)/Fe(III) cycle

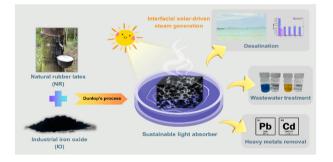
Tuo Wang, Jiayao Zhang, Ziyuan Wang, Qian Zhao, Yue Wu, Nan Li, Xinlei Jiang\* and Xin Wang\*



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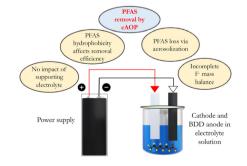
Efficient solar-driven steam generation for clean water production using a low-cost and scalable natural rubber composite sponge

Parichart Onsri, Piyatida Thaveemas, Pongthep Prajongtat, Whijitra Suvandee, Supanna Techasakul, Laemthong Chuenchom\* and Decha Dechtrirat\*



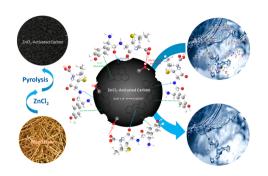
Effect of chain length, electrolyte composition and aerosolization on the removal of per- and polyfluoroalkyl substances during electrochemical oxidation

Kaushik Londhe and Arjun K. Venkatesan\*



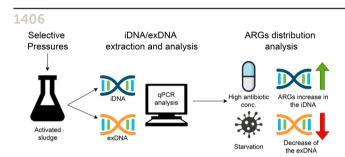
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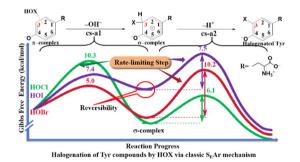
Suwiwat Sangon, Kanokwan Kotebantao, Theerakan Suyala, Yuvarat Ngernyen, Andrew J. Hunt and Nontipa Supanchaiyamat\*



Antibiotic resistance response of activated sludge to sulfamethoxazole: insights from the intracellular and extracellular DNA fractions

M. Martínez-Quintela.\* D. Calderón-Franco. M. C. M. van Loosdrecht, S. Suárez, F. Omil and D. G. Weissbrodt

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New insights into the iodination mechanism of tyrosine and its dipeptides and comparison with chlorination and bromination reactions

Yue Qiu, Yong Dong Liu\* and Rugang Zhong

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Orange peel biochar/clay/titania composites: low cost, high performance, and easy-to-reuse photocatalysts for the degradation of tetracycline in water

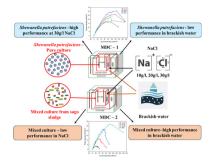
Morenike O. Adesina, Moses O. Alfred, Harald Seitz, Katlen Brennenstuhl, Harshadrai M. Rawel, Pablo Wessig, Jiyong Kim, Armin Wedel, Wouter Koopman, Christina Günter, Emmanuel I. Unuabonah and Andreas Taubert\*

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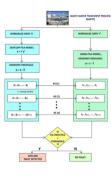
Sandhya Prakash, Samsudeen Naina Mohamed and Kalaichelvi Ponnusamy\*



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Enhanced data-driven monitoring of wastewater treatment plants using the Kolmogorov-Smirnov

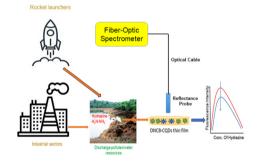
K. Ramakrishna Kini, Fouzi Harrou,\* Muddu Madakyaru\* and Ying Sun



#### 1481

Fiber-optic thin film chemical sensor of 2,4 dinitro-1-chlorobenzene and carbon quantum dots for the point-of-care detection of hydrazine in water samples

Tanmay Vyas, Hritik Kumar, Gunjan Nagpure and Abhijeet Joshi\*



#### 1492

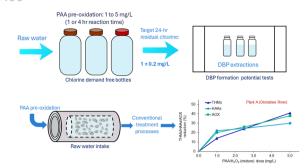
Artificial neural network-based QSAR model for predicting degradation techniques of pharmaceutical contaminants in water bodies with experimental verification

Jhon Alex González-Amaya, Andrea Nadith Niño-Colmenares. Andrés Felipe Cárdenas-Rodríguez and James Guevara-Pulido\*

Affinity = -10kcal/mol to -10.5kcal/mol IC<sub>50</sub> Predicted = 0.23 nm to 0.33 nm

#### **PAPERS**

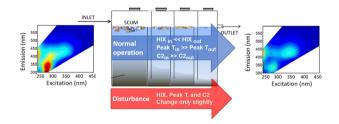
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#### Peracetic acid to reduce disinfection by-product formation in drinking water

Subhajit Mondal,\* Erin Mackey and Ron Hofmann

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#### Tracking performance and disturbance in decentralized wastewater treatment systems with fluorescence spectroscopy

Natalie Mladenov,\* Scott Sanfilippo, Laura Panduro, Chelsi Pascua, Armando Arteaga and Bjoern Pietruschka

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