

# Environmental Science Water Research & Technology

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### Cover

See Zhiliang Zhu *et al.*,  
pp. 1446–1459.

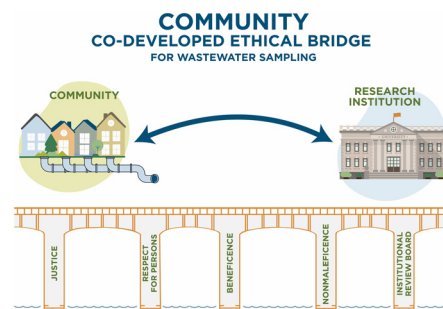
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Technol.*, 2025, **11**, 1446.

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Kathleen Clarke, Lauren B. Anderson, Arnita Gadson,  
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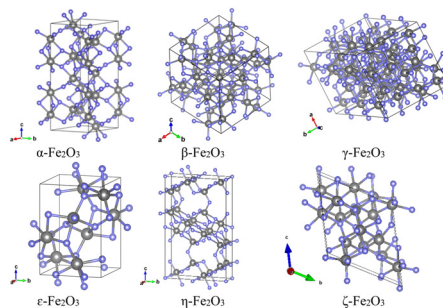


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### Recent developments of iron oxide-based photocatalysts in water treatment technology: a review

Chao Li, Shilong He, Hong Mo, Xueqing Xu, Peixian Yang  
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# Environmental Science: Atmospheres

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Elemental answers

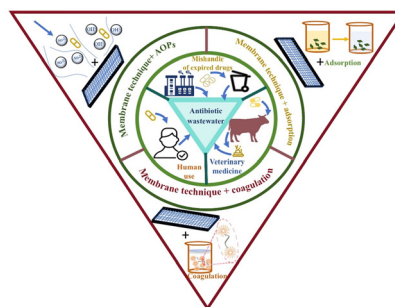


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**Research status of membrane separation technology in the treatment of antibiotic wastewater**

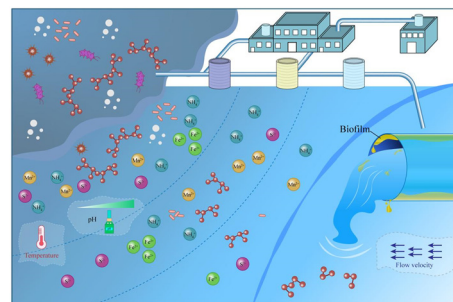
Shida Zhang, Xuewan Zhang, Xue Shen,\* Xiangrui Lu, Yuqi Guo, Yingqiang Li, Xue Han, Rupeng Liu,\* Feiyong Chen and Cuizhen Sun



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**Microbial dynamics at different stages of drinking water treatment systems**

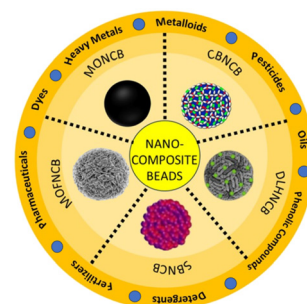
Zhenru Zhao, Wenjun Sun,\* Yanchu Ke, Yuanna Zhang and Xiaohui Wang\*



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**Recent innovations in nanocomposite beads for the removal of pollutants from water: a critical review**

Abdullah, Zumra and Saeed Ahmed\*

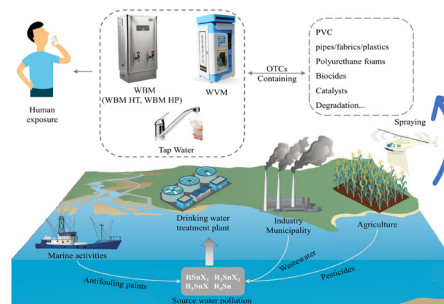


## PAPERS

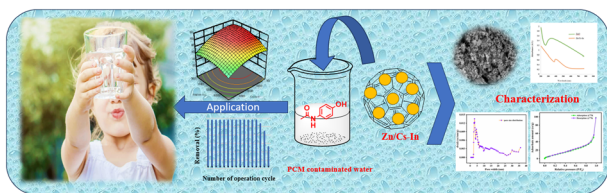
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**Source apportionment of organotin pollution in different types of drinking water from megacity communities using multiple receptor models: a case study in Shanghai, China**

Qinghui Huang, Ying Meng, Yang Lu, Zhiliang Zhu,\* Yanling Qiu and Åke Bergman



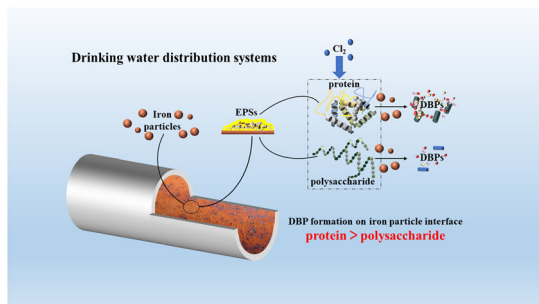
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### Mechanistic insights into paracetamol adsorption from water using ZnO nanoparticle-immobilized chitosan-inulin composites: fractal kinetics, statistical physics, thermodynamic analysis, and application to real water samples

Mohd Nasir,\* Daniya Shahid, Wajiha Khan, Atif Afroz, Mohammad Shahzad Samdani and Md. Abdur Rashid Mia

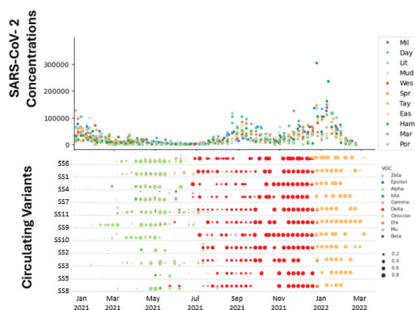
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### Effects of polysaccharides and proteins in EPSs on DBP formation during iron release

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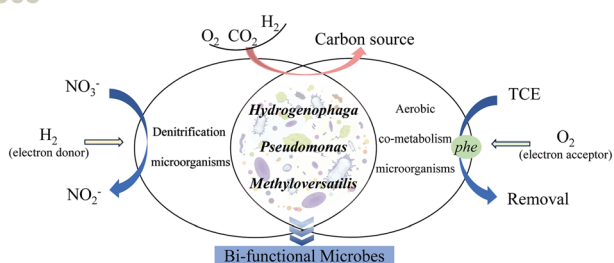
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### Dynamics of SARS-CoV-2 variants in southwest Ohio municipal wastewater

Maitreyi Nagarkar, Scott P. Keely, Emily A. Wheaton, Chloe Hart, Michael A. Jahne, Jay L. Garland, Eunice Varughese and Nichole E. Brinkman\*

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### Nitrate enhances TCE removal by enriching bifunctional denitrifying/aerobic co-metabolizing microbes in the joint H<sub>2</sub>/O<sub>2</sub> system

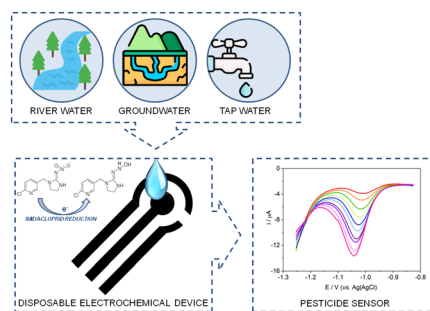
Wenyi Huang, Weiwei Ouyang, Haonan Bian and Hui Liu\*



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### A highly sensitive disposable electrochemical sensor based on copper nanoparticles for pesticide imidacloprid determination in contaminated water sources

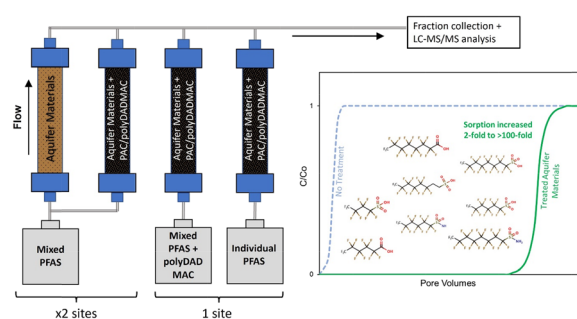
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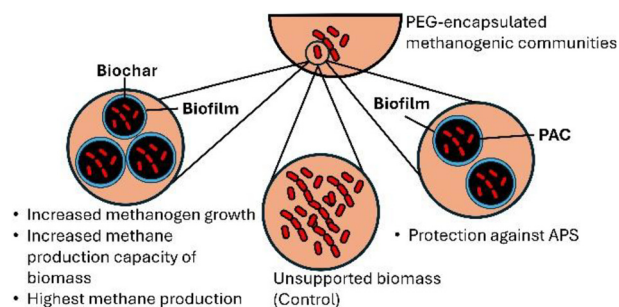
William M. Longo, Sneha Sinha, Mito Imagawa, William A. Arnold, James Hatton, Kurt D. Pennell and Matt F. Simcik\*



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### Protection and enrichment: how two different carbonaceous biofilm supports improve methane yield from encapsulated anaerobic microorganisms

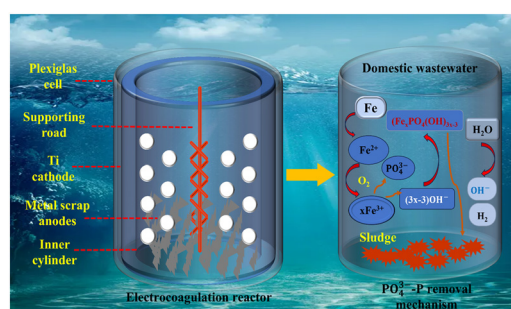
Annesh Borthakur,\* Mariah Dorner, Kendall Johnson, William A. Arnold and Paige J. Novak\*

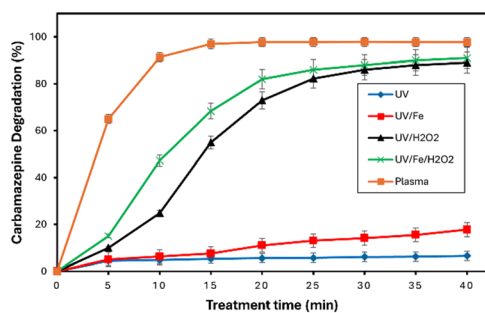


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### Chemical and electrochemical coagulation processes as a tertiary treatment for residual phosphate removal from domestic wastewater: effect of operating parameters and calculation of operating cost

Nawid Ahmad Akhtar, Mehmet Kobya and Erhan Gengec\*





## Insights into the degradation of carbamazepine using a continuous-flow non-thermal plasma: kinetics and comparison with UV-based systems

Samuel O. Babalola, Michael O. Daramola and Samuel A. Iwarere\*

