

Environmental Science Water Research & Technology

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See Manuela Melucci *et al.*,
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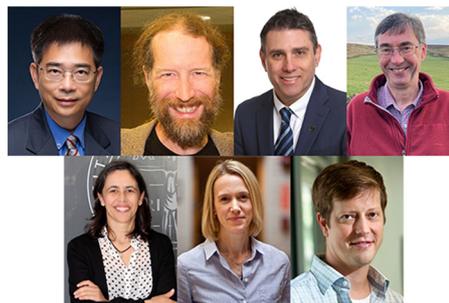
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Water Res. Technol.*,
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2023 Outstanding Papers published in the *Environmental Science* journals of the Royal Society of Chemistry

Zongwei Cai, Neil Donahue, Graham Gagnon,
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and Peter J. Vikesland

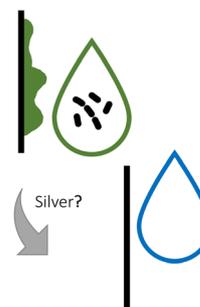


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Moving beyond silver in point-of-use drinking water pathogen control

Daniel P. Huffman, Sarah Pitell, Paige Moncure,
Janet Stout, Jill E. Millstone, Sarah-Jane Haig*
and Leanne M. Gilbertson*



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Fundamental questions
Elemental answers

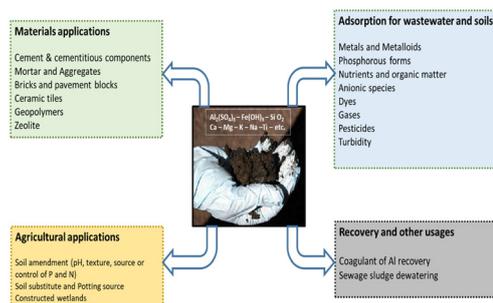


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Re-utilization of drinking water treatment residuals (DWTR): a review focused on the adsorption of inorganic and organic contaminants in wastewater and soil

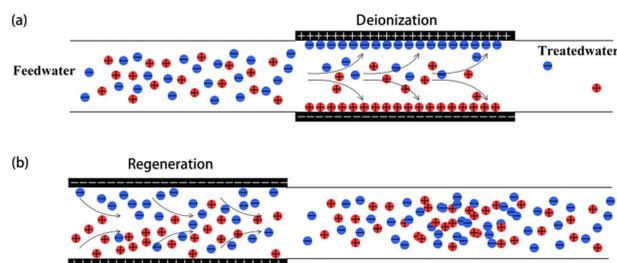
Nelson Belzile* and Yu-Wei Chen



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Enhancing capacitive deionization for water desalination: the role of activated carbon in contaminant removal

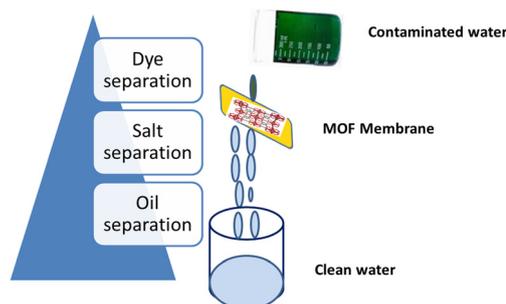
Xuan Wang, Shuya Shan, Yaoli Zhang,* Sheldon Q. Shi* and Changlei Xia



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Recent progress in 2D and 3D metal-organic framework-based membranes for water sustainability

Talib Hussain Banglani, Imamdin Chandio, Akbar Ali, Ayaz Ali Memon,* Jun Yang,* Mohsin Kazi and Khalid Hussain Thebo*



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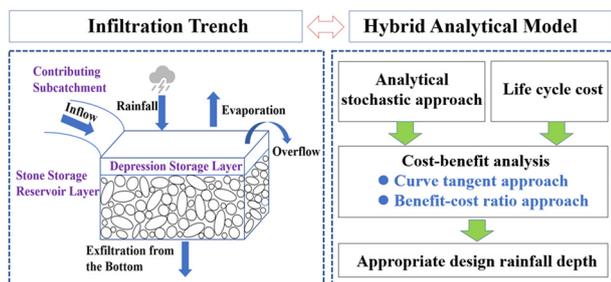
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Upcycling of plastic membrane industrial scraps and reuse as sorbent for emerging contaminants in water

Sara Khaliha, Francesca Tunioli, Luca Foti, Antonio Bianchi, Alessandro Kovtun, Tainah Dorina Marforio, Massimo Zambianchi, Cristian Bettini, Elena Briñas, Ester Vázquez, Letizia Bocchi, Vincenzo Palermo, Matteo Calvaresi, Maria Luisa Navacchia and Manuela Melucci*



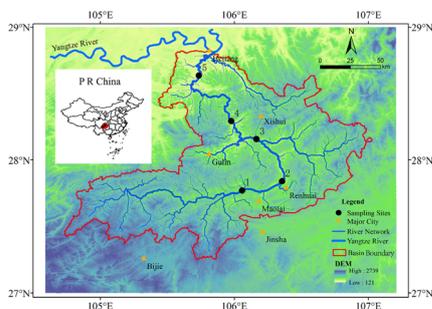
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Jun Wang,* Yijiao Diao, Shengle Cao,* Jiachang Wang, Jingjing Jia and Yiping Guo

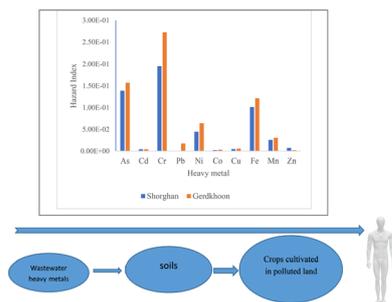
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Geochemistry, health risk assessment and statistical source identification of dissolved trace elements in surface water of the Chishui River, China

Xiwei Song, Liqiang Chao, Xutao Jiang, Kejia Liu and Xunchi Pu*

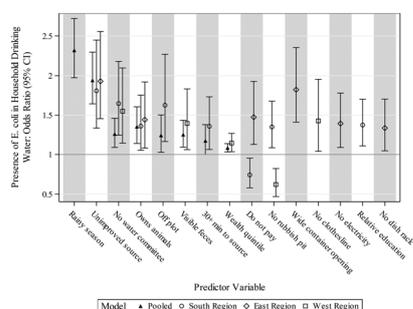
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Risk assessment of heavy metals in soil and simultaneous monitoring in wheat irrigated with groundwater and treated wastewater and its long-term effects for residents of adjacent regions

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Donald Fejfar, Wren Tracy, Emma Kelly, Michelle Moffa, Robert Bain, Jamie Bartram, Darcy Anderson and Ryan Cronk*

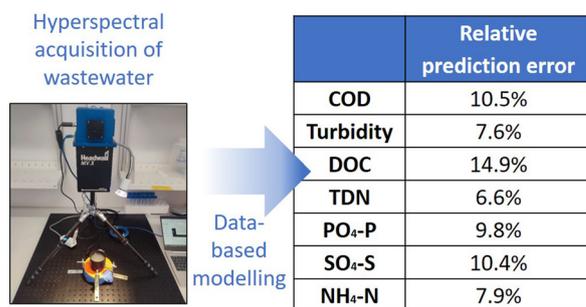


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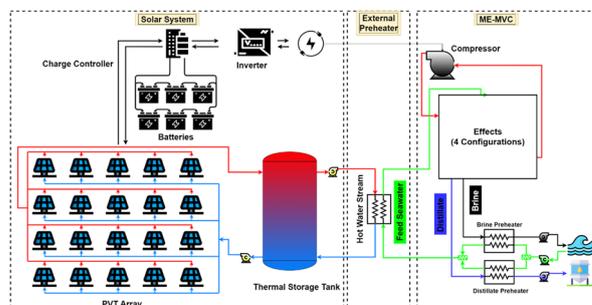
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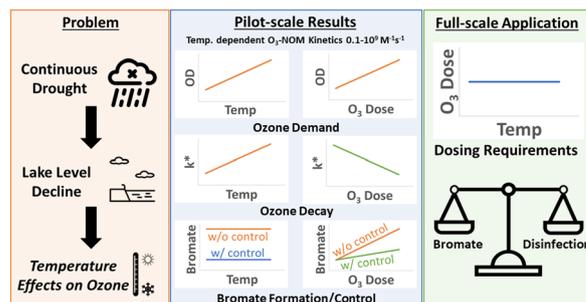
Mahmoud Sheta and Hamdy Hassan*



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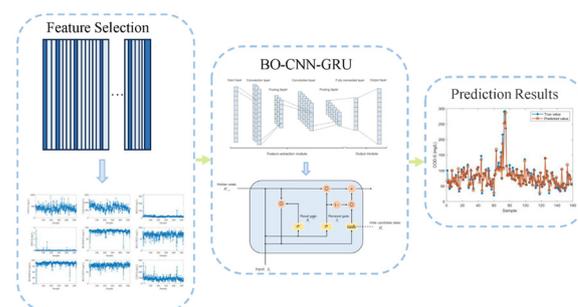
Bilal Abada, Ariel J. Atkinson and Eric C. Wert*



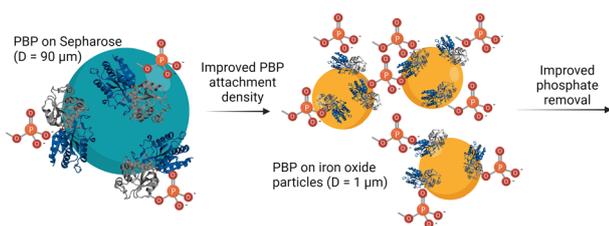
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Optimized deep learning models for effluent prediction in wastewater treatment processes

Canyun Yang, Zhuoyue Guo, Yun Geng, Fengshan Zhang, Wenguang Wei and Hongbin Liu*



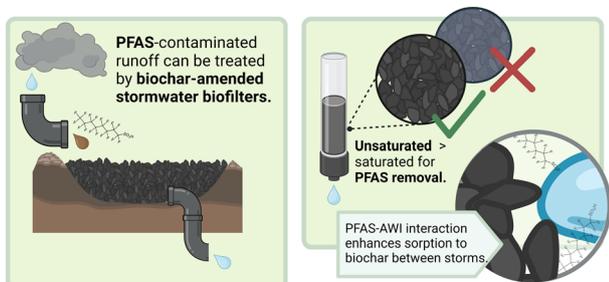
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Faten B. Hussein, Andrew H. Cannon, Justin M. Hutchison, Christopher B. Gorman, Yaroslava G. Yingling and Brooke K. Mayer*

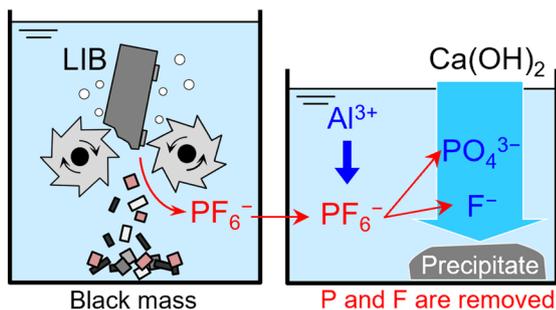
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Controlling saturation to improve per- and polyfluoroalkyl substance (PFAS) removal in biochar-amended stormwater bioretention systems

Kathleen Mills Hawkins, James Conrad Pritchard, Scott Struck, Yeo-Myoung Cho, Richard G. Luthy and Christopher P. Higgins*

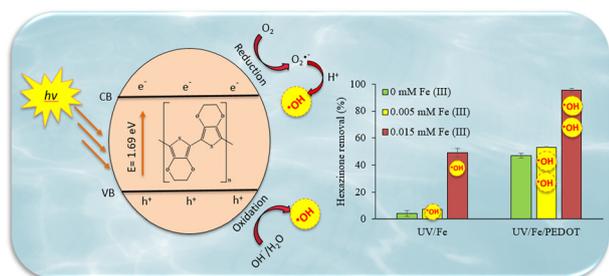
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Removal of phosphorus and fluorine from wastewater containing PF_6^- via accelerated decomposition by Al^{3+} and chemical precipitation for hydrometallurgical recycling of lithium-ion batteries

Takuto Miyashita,* Kouji Yasuda* and Tetsuya Uda*

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Mechanistic investigation of the photocatalytic activity of PEDOT for aqueous contaminant removal: the role of iron and hydroxyl radicals

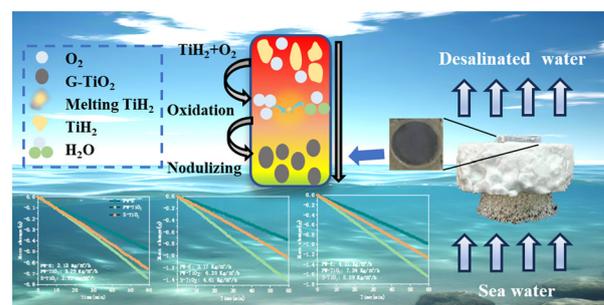
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Fei Li, Chang Liu, Yuanjiang Dong, Huacheng Jin, Baoqiang Li, Fei Ding and Fangli Yuan*



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Swadhina P. Lenka, Melanie Kah, Jack L.-Y. Chen, Bryan Andres Tiban-Anrango and Lokesh P. Padhye*

