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Environmental Science Water Research & Technology

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ISSN 2053–1400 CODEN ESWRAR 12(1) 1–338 (2026)

Cover
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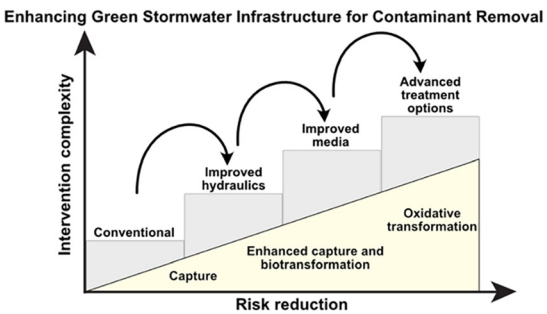
A tiered complexity conceptual framework for treating water soluble, hydrophilic contaminants in green stormwater infrastructure

Stephanie Spahr,* Gregory H. LeFevre* and Elodie Passeport*



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N. Moore, D. Pousty, D. Ma, R. Hofmann, A. Pras, R. E. Higbee, H. Mamane* and S. E. Beck*

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CRITICAL REVIEWS

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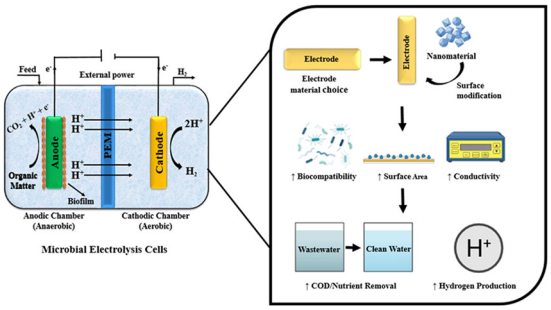
Surface characteristics of electrodes in microbial electrolysis cells: a review on wastewater treatment

Nicoly Welter and Vinka Oyanedel-Craver*



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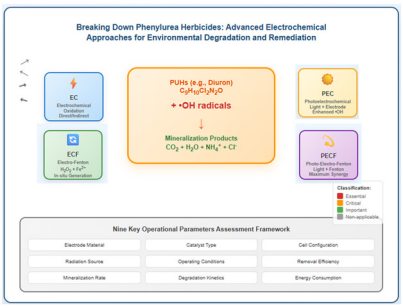
Breaking down phenylurea herbicides: advanced electrochemical approaches for environmental degradation and remediation

Ranil C. T. Temgoua,* Jan Lisec and Matthias Koch



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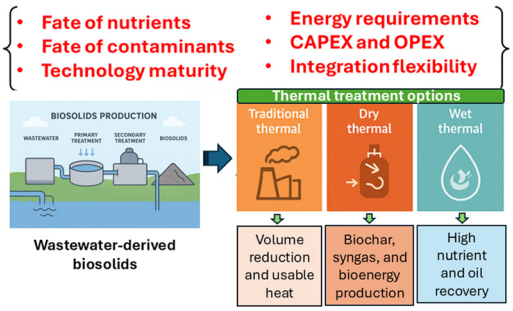
Thermal treatment options for biosolids management: a critical review

Savankumar Patel, Ibrahim Gbolahan Hakeem, Mojtaba Hedayati Marzbali, Pobitra Halder, Arun K. Vuppaladadiyam, Lalit Kumar, Aravind Surapaneni, Abhishek Sharma, Damien J. Batstone and Kalpit Shah*



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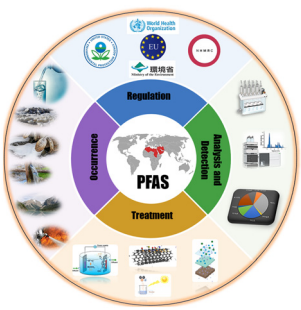
Comprehensive review of PFAS occurrence, regulatory frameworks, analytical, and remediation methodologies: emphasis on the Arabian Gulf and arid regions

Arun K. K., Haya Saleh Al Yasi, Ojima Z. Wada, Fares AlMomani* and Khaled A. Mahmoud*



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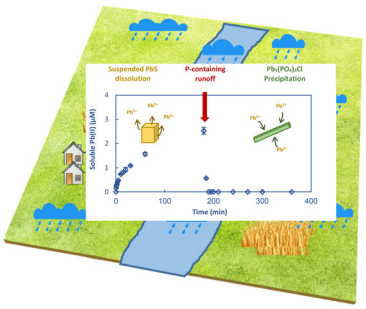

Transformation and immobilization of sedimental galena (PbS) by phosphate from surface runoff in simulated storm suspensions

Yi-Pin Lin* and Ze-Xuan Tan

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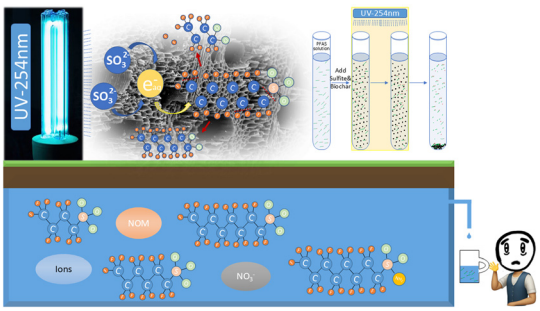

Chitosan-modified biochar enhanced PFAS degradation in UV/sulfite: impact of environmental conditions and applicability across different PFAS

Ziteng Song,* Jianzhou He, Steven Mai, Thorsten Knappenberger and Yaniv Olshansky*

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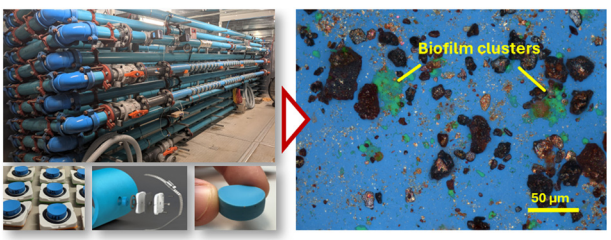

- Biofilms facilitated the attachment of iron oxide particles on PVC pipes.
- Biofilms increased particles resistance to mobilization through flushing.

The synergy between particles and biofilms that drives drinking water discolouration processes in PVC pipes

Artur Sass Braga,* Yves Filion and Benjamin Anderson

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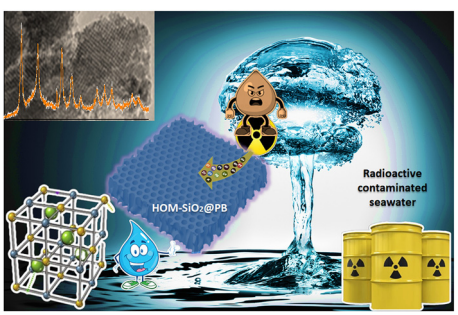

Mesoporous SiO_2–Prussian blue composite for high-efficiency cesium ion removal

Mubarak A. Eldoma,* Nasser Zouli, Mohamed Hassan, Salah Eldeen F. Hegazi, Mohamed A. Mahmoud, Ahmed F. F. Abouatiaa, Mohammad S. Alomar, Nada Abdelmageed, Emad A. Elshehy,* Mahmoud T. Abdu and Maiada S. Abdelrahman

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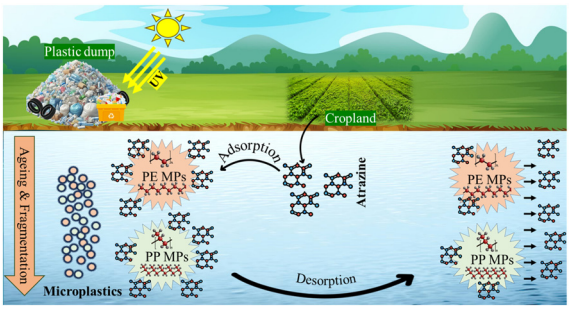
Microplastics in river water: occurrence, weathering, and adsorption behaviour

Bishwatma Biswas, Anuja Joseph and Sudha Goel*



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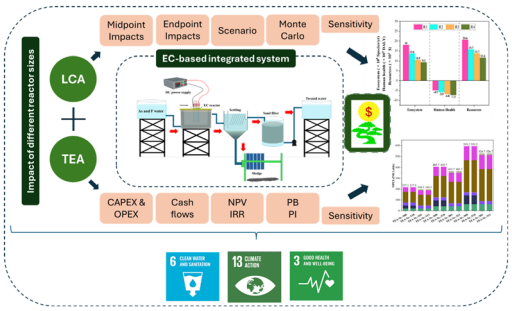
Techno-economic and life cycle assessment of an integrated electrocoagulation process for sustainable treatment of arsenic and fluoride contaminated groundwater

Hemant Goyal and Prasenjit Mondal*



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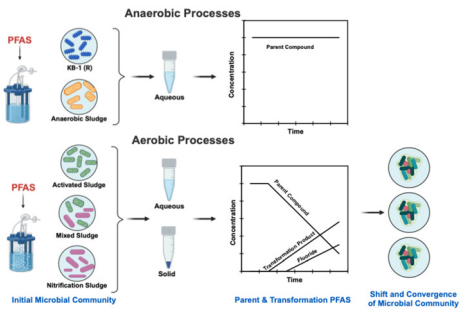
Biotransformation and partitioning of structurally different PFAS by wastewater microbial consortia

Sumaiya Saifur, Nisa Vyverberg, John Michael Aguilar, Jonathan Antle, Nirupam Aich, Diana S. Aga and Ian M. Bradley*



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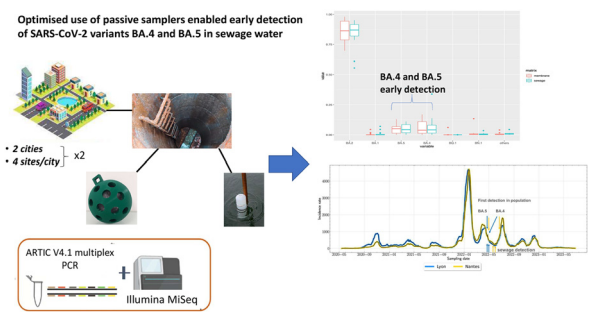
Optimised use of passive samplers enabled early detection of SARS-CoV-2 variants BA.4 and BA.5 in sewage water

Françoise Vincent-Hubert,* El Hacene Djaout, Marie Courbariaux, Nicolas Cluzel, Marion Desdouits, Julien Schaeffer, Valentin Tilloy, Virginie Lattard, Sionfoungo Daouda Soro, Mickaël Boni, Elodie Monchatre-Leroy, Françoise S. Le Guyader and Vincent Maréchal



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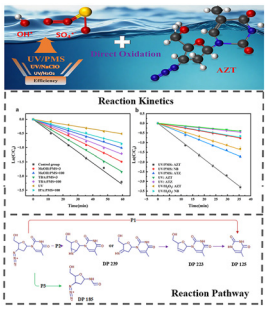

Effects of UV/PMS oxidation on the degradation of zidovudine: kinetics, degradation products, and reaction pathways

Zhenqi Du, Yiran Jia, Zhangbin Pan, Xiaohong Wang, Baozhen Liu, Guifang Li, Yonglei Wang* and Ruibao Jia*

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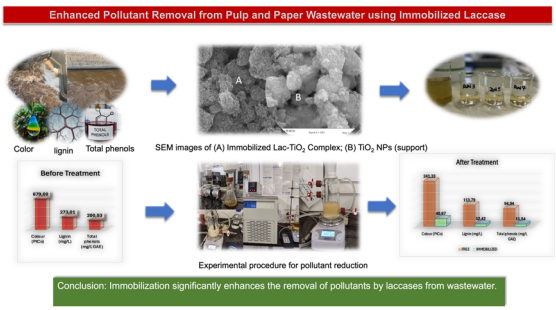

Optimization of color, lignin, and total phenol removal from pulp and paper wastewater using immobilized laccase: a Taguchi approach

Toritsegbone Erik Tite,* Peterson Thokozani Ngema and Thobeka Pearl Makhathini

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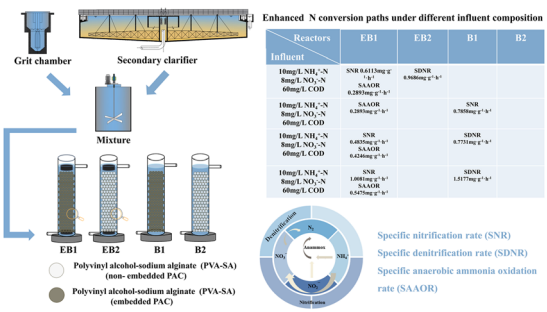

Effect of PAC-embedded fillers coupled with electrochemical systems on nitrogen transfer pathways and removal

Zhaoxu Peng,* Meiqi He, Yingjian Zhang, Likun Gu, Yan Wang, Liyun Sun and Lulu Cheng

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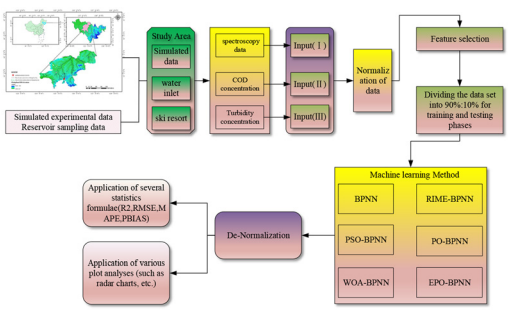

Research on a small-concentration chemical oxygen demand prediction algorithm based on an enhanced parrot optimizer–BPNN and ultraviolet-visible spectroscopy

Hongmei Wang, Qiaoling Du* and Xin Wang

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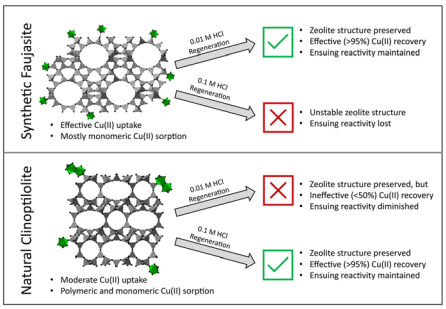
Molecular-scale investigation of Cu(II) interactions with synthetic and natural zeolites during removal and recovery

Case M. van Genuchten,* Kaifeng Wang, Claus Kjøller and Knud Dideriksen



COMMENTS

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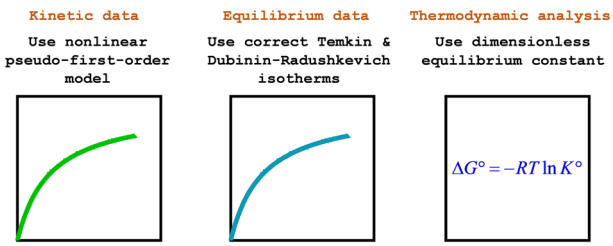
Comment on "Shallow Shell SSTA63 resin: a rapid approach to remediation of hazardous nitrate" by E. Çendik, M. Saygı, Y. K. Recepoğlu and Ö. Arar, *Environ. Sci.: Water Res. Technol.*, 2024, 10, 2765

Khim Hoong Chu*



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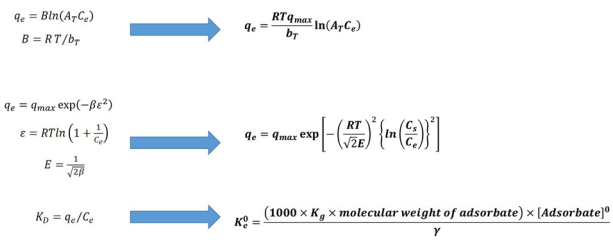
Reply to the 'Comment on "Shallow Shell SSTA63 resin: a rapid approach to remediation of hazardous nitrate"' by K. H. Chu, *Environ. Sci.: Water Res. Technol.*, 2026, 12, DOI: 10.1039/D4EW00976B

Elif Çendik, Mügenur Saygı, Yaşar Kemal Recepoğlu and Özgür Arar*



CORRECTION

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Correction: A novel water-from-air technology: creeping clathrate desalination of deliquescent salt solutions

Anke Snauwaert, Estelle Becquevort, Maarten Houlleberghs, Robin Peeters, Sambhu Radhakrishnan, Eric Breynaert and Johan Martens*