

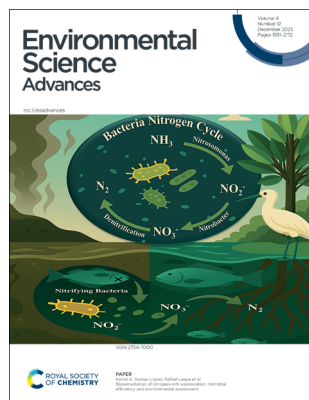
Environmental Science: Advances

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Cover

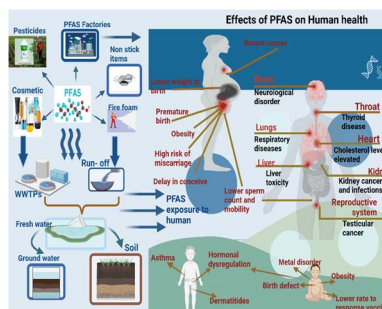
See Kelvin A. Sanoja-López, Rafael Luque *et al.*, pp. 2043–2054. Image reproduced by permission of Kelvin A. Sanoja-López from *Environ. Sci.: Adv.*, 2025, 4, 2043.

CRITICAL REVIEWS

1939

Potential human health effects of per- and polyfluoroalkyl substances (PFAS) prevalent in aquatic environment: a review

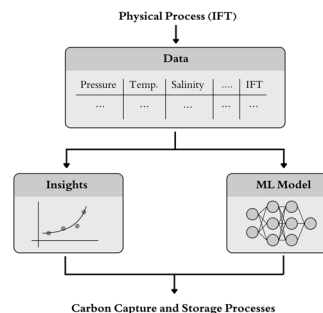
Srinithi Mayilswami, Nirav P. Raval, Rinki Tomar, Shailja Sharma, Sarva Mangala Praveena, Navish Kataria, Rangabhashiyam Selvasembian, Saravanan Ramiah Shanmugam, Ravinder Nath, Arindam Malakar, Sudeshna Dutta and Santanu Mukherjee*



1963

A comprehensive review of characterizing CO₂-brine interfacial tension in saline aquifers using machine learning

M. Saud Ul Hassan, Kashif Liaqat* and Laura Schaefer



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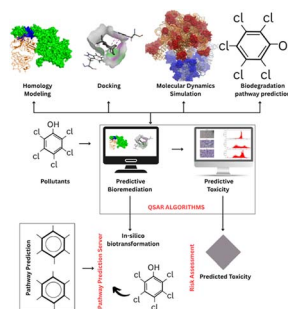


CRITICAL REVIEWS

1987

Artificial intelligence driven bioinformatics for sustainable bioremediation: integrating computational intelligence with ecological restoration

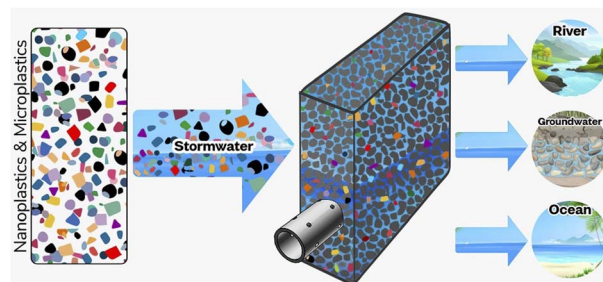
Kashif R. Siddique, Debajyoti Bose,* Riya Bhattacharya, Raul Villamarin Rodriguez and Aritra Ray



1998

Microplastics and nanoplastics in stormwater management engineered porous media systems: a systematic review of their sources, transport, retention, and removal characteristics

Aniekan E. Essien,* Sarah E. Dickson-Anderson* and Yiping Guo

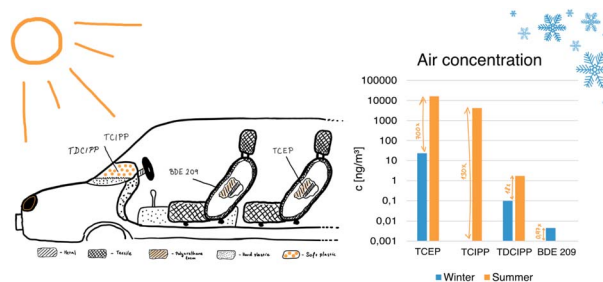


COMMUNICATION

2027

Investigation of seasonal changes in flame retardant concentrations in car interiors

Petra Svobodová, Simona Rozárka Jílková, Jiří Kohoutek, Ondřej Audy and Lisa Melymuk*

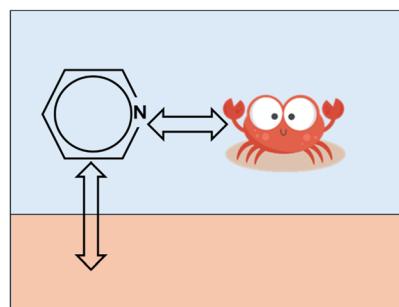


COMMENTS

2034

Comment on "Why there is no evidence that pyridine killed the English crabs" by A. T. Ford, M. F. Fitzsimons and C. Halsall, *Environ. Sci.: Adv.*, 2024, 3, 1385, DOI: <https://doi.org/10.1039/D4VA00006D>

Adam Peters*



COMMENTS

2040

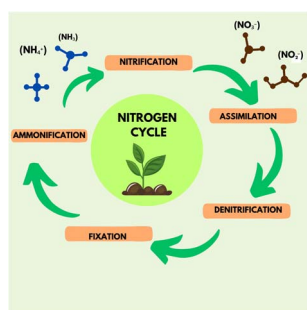


Reply to the 'Comment on "Why there is no evidence that pyridine killed the English crabs"' by A. Peters, *Environ. Sci.: Adv.*, 2025, 4, DOI: 10.1039/D4VA00420E

Alex T. Ford,* Mark F. Fitzsimons and Crispin Halsall

PAPERS

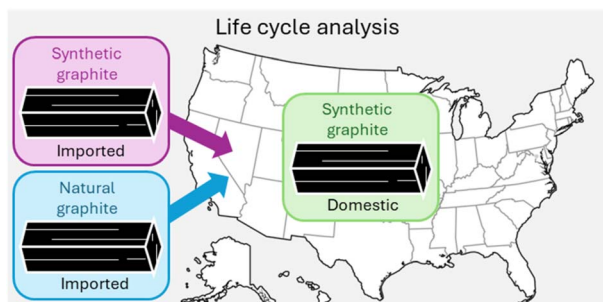
2043



Bioremediation of nitrogen-rich wastewaters: microbial efficiency and environmental assessment

Viviana Tamay, Jorge Flores, Oscar Navia-Pesantes, Carlos Camba, Marianela Barona-Obando, Cesar F. Suarez, Kelvin A. Sanoja-López* and Rafael Luque*

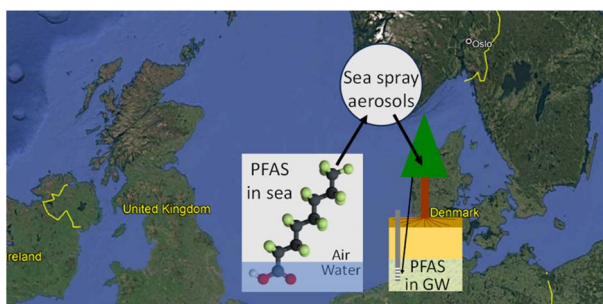
2055



Energy, greenhouse gas, and water life cycle analysis of synthetic graphite anode production in the United States

Ramsharan Pandey, Ulises R. Gracida-Alvarez, Rakesh K. Iyer and Jarod C. Kelly*

2069



Sea spray aerosols can be a source of PFAS pollution in coastal aquifers

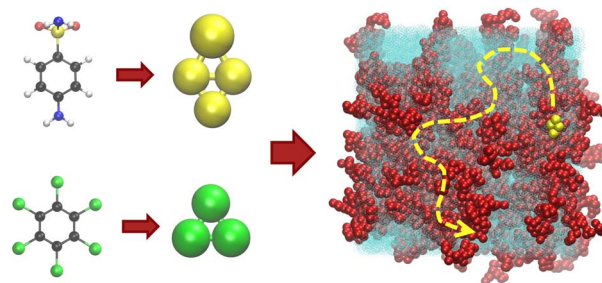
Christian Nyrop Albers* and Denitza Voutchkova



2079

Coarse-grained simulations of sulfanilamide and hexachlorobenzene mobility in soil organic matter

Lorenz F. Dettmann, Oliver Kühn* and Ashour A. Ahmed



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Are you being served? An examination of chemical risks posed by compostable single-use food service items

Alexander Wotton,* Iliana Delcheva, Jason Gascooke, David Springer, Simon Mills, Anna Ernst, Melanie MacGregor and Helen Prifti



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Lignite as a natural active immobilization system for surface/drainage water polluted by fertilizers

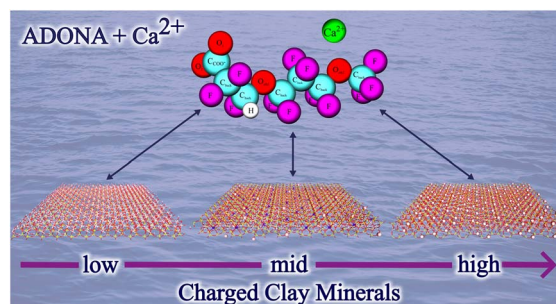
Martina Klučáková,* Petra Závodská, Marcela Pavlíková, Lukáš Buršík and Veronika Sobotková



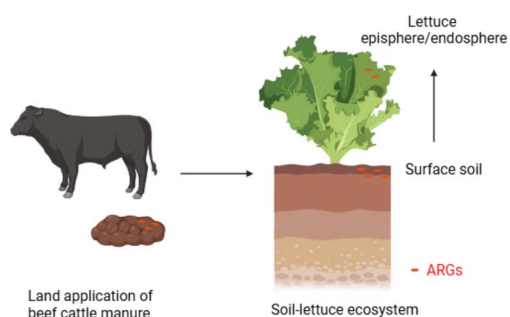
2116

Interaction of ADONA with neutral and charged clay interfaces: molecular insights

Christina E. Schumm, Narasimhan Loganathan, James Hager and Angela K. Wilson*



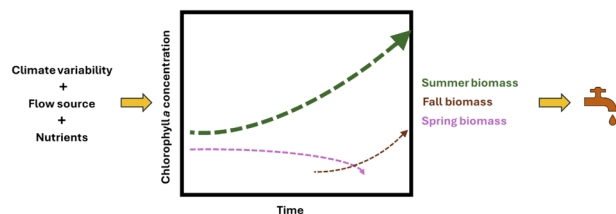
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Land application of beef cattle manure facilitates the transmission of antibiotic resistance genes from soil to lettuce

Yuepeng Sun,^{*} Daniel Snow, Harkamal Walia and Xu Li

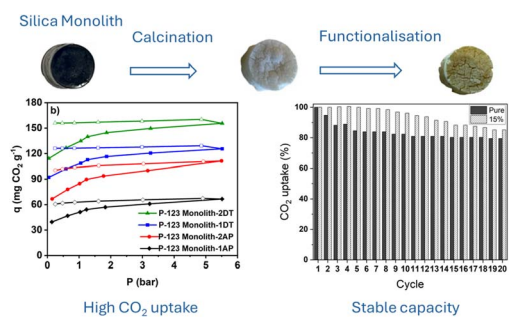
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Climate variability and flow management impact phytoplankton biomass in a shallow reservoir

Danielle S. Spence,^{*} Kristin J. Painter, Ali Nazemi, Jason J. Venkiteswaran and Helen M. Baulch

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Amine-functionalised monolithic silica adsorbents for CO₂ capture

Ali Kasiri, R. Sanz, Eloy S. Sanz-Pérez and Amaya Arencibia^{*}

