

Environmental Science: Advances

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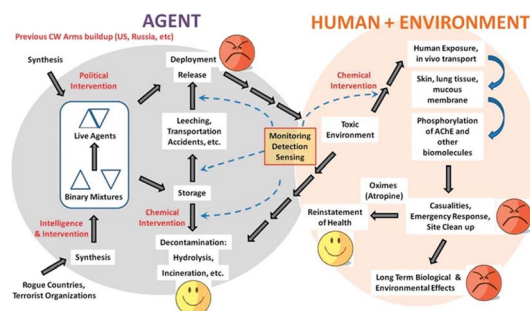
Cover
See Visakha Singh and M. Kiranmai Reddy, pp. 1594–1598. Image reproduced by permission of Visakha Singh and M. Kiranmai Reddy from *Environ. Sci.: Adv.*, 2025, 4, 1594.

CRITICAL REVIEWS

1538

Thermophysical treatment technologies for chemical warfare agents sulfur mustard, sarin, and nerve agent VX – a review

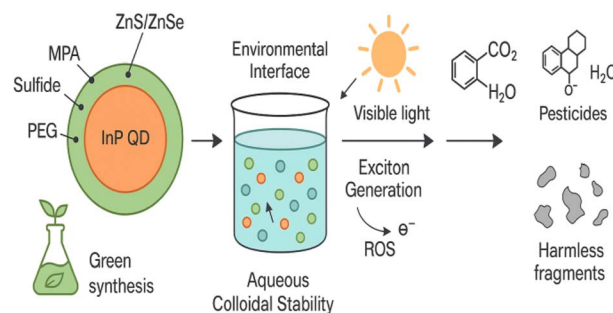
Veera M. Boddu,* Justin Morales, Mallikarjuna N. Nadagouda, Lukas Oudejans and Lance Brooks



1553

Indium phosphide quantum dots as green nanosystems for environmental detoxification: surface engineering, photocatalytic mechanisms, and comparative material insights

Rima Heider Al Omari, Anjan Kumar, Ali Fawzi Al-Hussainy, Shaker Mohammed, Aashna Sinha, Subhashree Ray and Hadi Noorizadeh*



Environmental Science: Atmospheres

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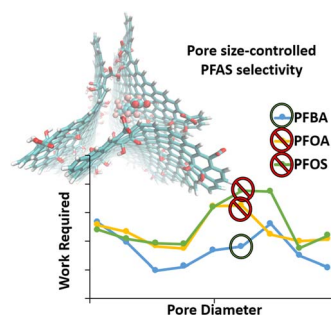
Fundamental questions
Elemental answers



1587

Impacts of pore size in binding dynamics of per- and polyfluoroalkyl substances (PFAS) on modified graphene materials

Timothy C. Schutt,* Caitlin G. Bresnahan, Timothy C. Ricard and Manoj K. Shukla*

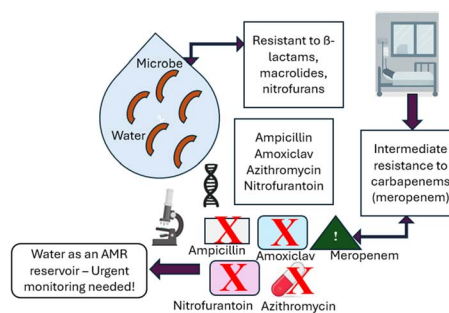


PAPERS

1594

Detection of multidrug resistance in Enterobacteriaceae in drinking water

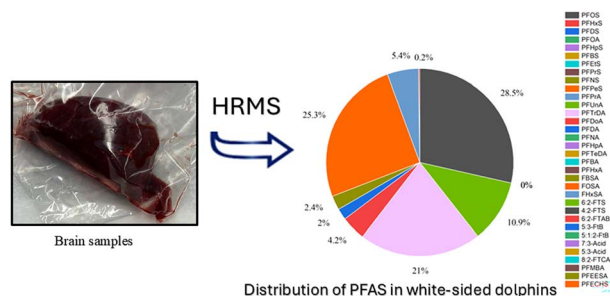
Visakha Singh and M. Kiranmai Reddy*



1599

Presence of per- and poly-fluoroalkyl substances (PFAS) in brain samples of marine mammals from the St. Lawrence Estuary and Gulf, Canada

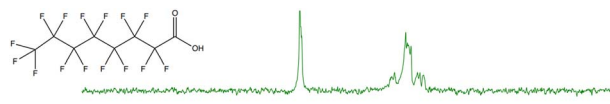
Nejuma Kannankeril Khalid, Amira Aker, Stéphane Lair and Sébastien Sauvé*



1612

¹⁹F solid-state nuclear magnetic resonance as a tool to study the bioaccumulation of per- and polyfluoroalkyl substances in murine tissue samples

Rachel Neita, Sophie Kieft, Haley Adams, Grace V. Mercer, Céline M. Schneider and Lindsay S. Cahill*



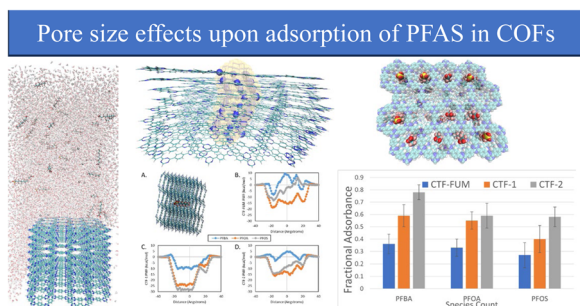
1622



Environmental and industrial impacts of Cr(vi) in wastewater: high performance removal efficiency using novel ZIF-8 MOFs doped with cesium

Omnia I. Ali,* Sheta M. Sheta,* Eman A. Elmenofy, A. T. Kandil and Said M. El-Sheikh*

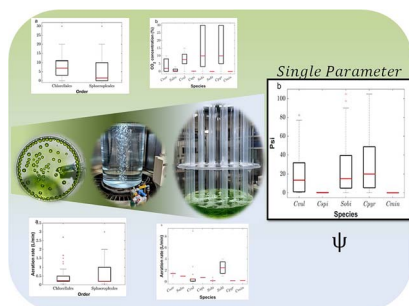
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Pore size effects upon adsorption of PFAS in covalent organic frameworks: molecular dynamics study

Timothy C. Ricard, Timothy C. Schutt, Caitlin G. Bresnahan and Manoj K. Shukla*

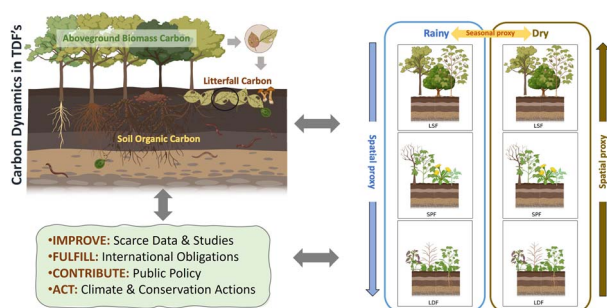
1650



Reconciling algal growth understanding in photobioreactors through a statistical and facile single parameter (ψ) approach

Rupesh Kumar, Zohar Barnett-Itzhaki, Asher Wishkerman, Snehanu Saha, Santonu Sarkar and Anirban Roy*

1663



Does the carbon pool vary among Ecuador's tropical dry forests and seasons? Experimental evidence from spatio-temporal assessments

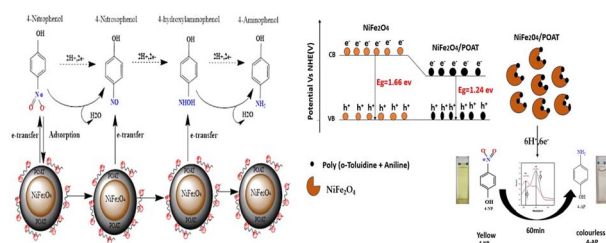
Michael Macias-Pro,* Emilio Jarre Castro, Juan Manuel Moreira Castro, José María Montoya Terán and Ezequiel Zamora-Ledezma*



1684

Polymer-enhanced nickel ferrite catalyst for the efficient reduction of 4-nitrophenol as a hazard pollutant

Ghizlene Boudghene Stambouli, Belkacem Benguella, Makhoukhi Benamar and Ayman H. Kamel*



CORRECTION

1699

Correction: Microbial degradation of bioplastic (PHBV) is limited by nutrient availability at high microplastic loadings

Michaela K. Reay,* Martine Graf, Lucy M. Greenfield, Rafael Bargiela, Charles Onyije, Charlotte E. M. Lloyd, Ian D. Bull, Richard P. Evershed, Peter N. Golyshin, David R. Chadwick and Davey L. Jones

