

# Environmental Science: Advances

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## IN THIS ISSUE

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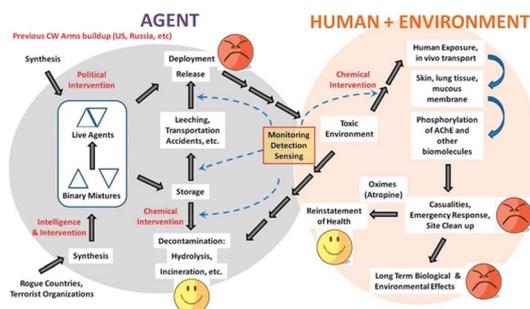
**Cover**  
See Visakha Singh and M. Kiranmai Reddy, pp. 1594–1598. Image reproduced by permission of Visakha Singh and M. Kiranmai Reddy from *Environ. Sci.: Adv.*, 2025, 4, 1594.

## CRITICAL REVIEWS

1538

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

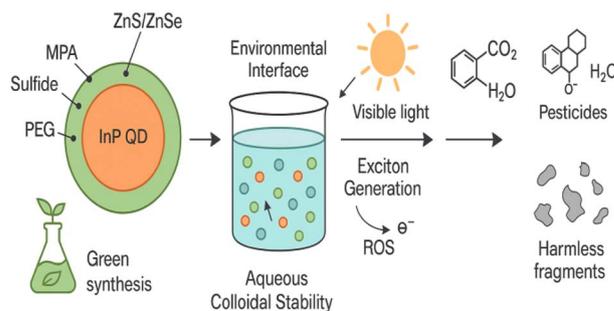
Veera M. Boddu,\* Justin Morales, Mallikarjuna N. Nadagouda, Lukas Oudejans and Lance Brooks



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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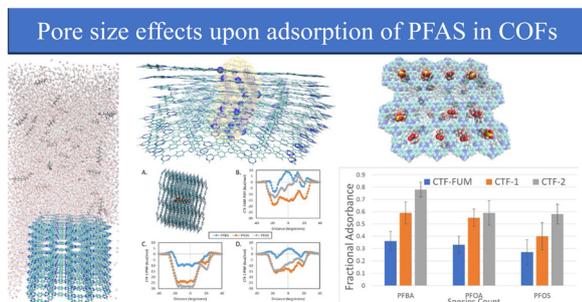
1622



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

Omnia I. Ali,<sup>\*</sup> Sheta M. Sheta,<sup>\*</sup> Eman A. Elmenofy, A. T. Kandil and Said M. El-Sheikh<sup>\*</sup>

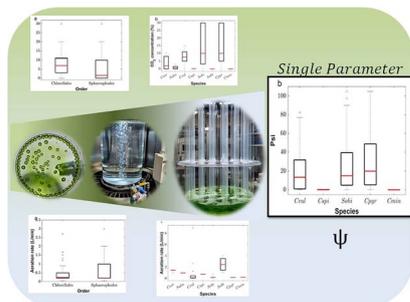
1633



### 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<sup>\*</sup>

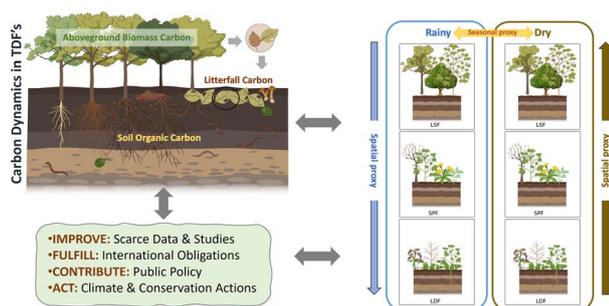
1650



### Reconciling algal growth understanding in photobioreactors through a statistical and facile single parameter ( $\psi$ ) approach

Rupesh Kumar, Zohar Barnett-Itzhaki, Asher Wishkerman, Snehanu Saha, Santonu Sarkar and Anirban Roy<sup>\*</sup>

1663



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

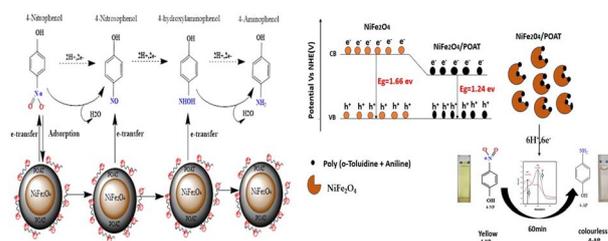
Michael Macias-Pro,<sup>\*</sup> Emilio Jarre Castro, Juan Manuel Moreira Castro, José María Montoya Terán and Ezequiel Zamora-Ledezma<sup>\*</sup>



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

