

# Environmental Science Processes & Impacts

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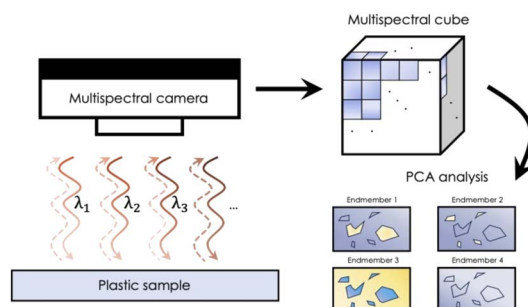
**Inside cover**  
See Philip T. Gidley *et al.*, pp. 814–823. Image reproduced by permission of Philip T. Gidley from *Environ. Sci.: Processes Impacts*, 2024, 26, 814. Cover art design by: Alvin Foster – Information Technology Laboratory. Photography by: Carlos E. Ruiz – Environmental Laboratory.

## PAPERS

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### Identification of spectral responses of different plastic materials by means of multispectral imaging

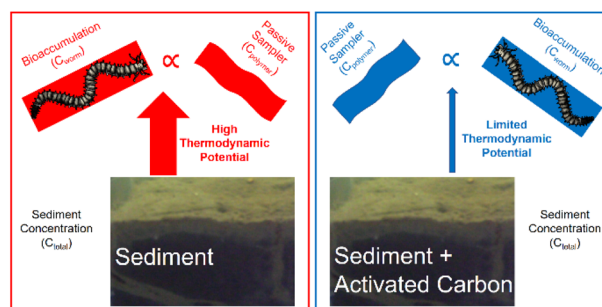
Giovanni Bragato, Giovanni Piccolo, Gabriele Sattier and Cinzia Sada\*



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### Quantitative thermodynamic exposure assessment of PCBs available to sandworms (*Alitta virens*) in activated carbon remediated sediment during ongoing sediment deposition

Philip T. Gidley,\* Guilherme R. Lotufo, Stine N. Schmidt, Philipp Mayer and Robert M. Burgess



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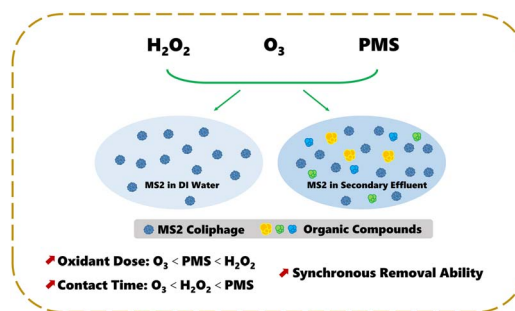
Fundamental questions  
Elemental answers



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### Ozone, hydrogen peroxide, and peroxymonosulfate disinfection of MS2 coliphage in water

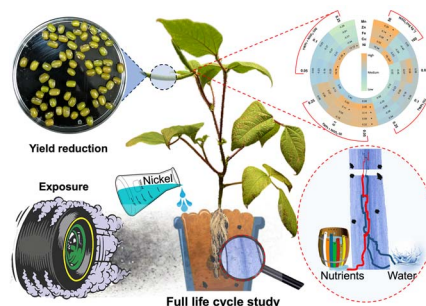
Zi-Chen Yang, Wen-Long Wang, Zi-Bo Jing, Yi-Qing Jiang, He-Qing Zhang, Min-Yong Lee, Lu Peng\* and Qian-Yuan Wu



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### Co-exposure to tire wear particles and nickel inhibits mung bean yield by reducing nutrient uptake

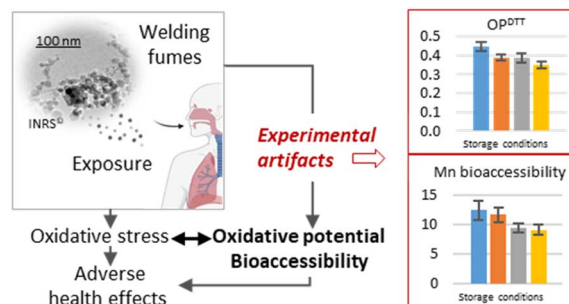
Imran Azeem, Muhammad Adeel,\* Noman Shakoor, Muhammad Zain, Hamida Bibi, Kamran Azeem, Yuanbo Li, Muhammad Nadeem, Umair Manan, Peng Zhang, Jason C. White and Yukui Rui\*



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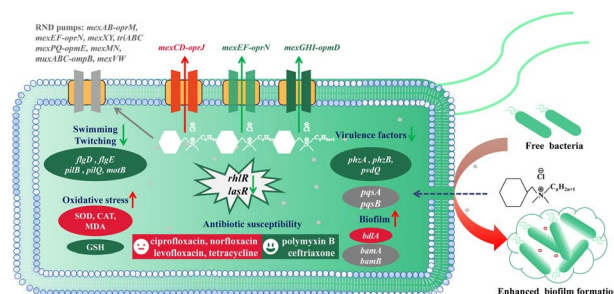
Manuella Ghanem, Laurent Y. Alleman, Davy Rousset,\* Esperanza Perdrix and Patrice Coddeville



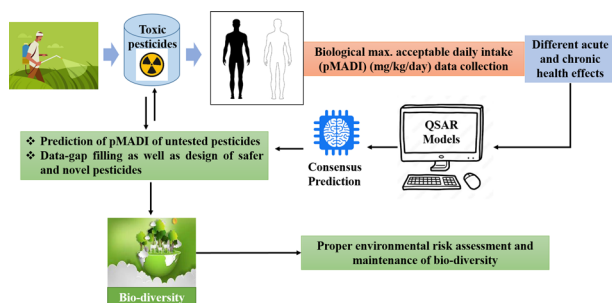
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Caihong Wang, Qiao Ma,\* Jiaxin Zhang, Nan Meng and Dan Xu



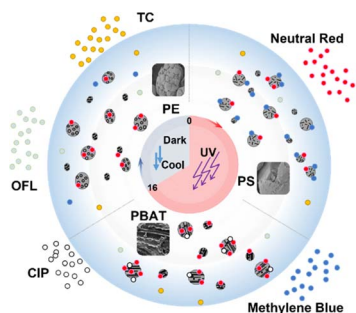
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## The first report on the assessment of maximum acceptable daily intake (MADI) of pesticides for humans using intelligent consensus predictions

Ankur Kumar, Probir Kumar Ojha\* and Kunal Roy\*

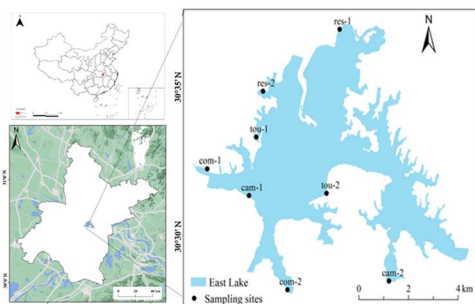
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## Characteristics and adsorption behavior of typical microplastics in long-term accelerated weathering simulation

Fei Yu, Qiyu Qin, Xiaochen Zhang and Jie Ma\*

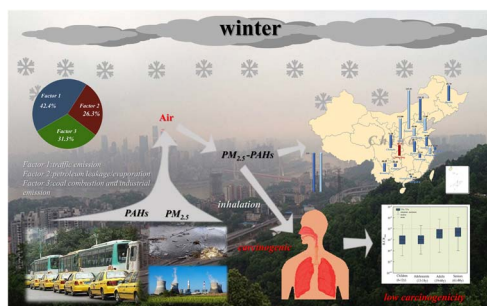
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## Impacts of rainfall and lakeshore soil properties on microplastics in inland freshwater: A case study in Donghu Lake, China

Yan Jiang, Yinuo Yang, Chenxi Zhan and Bo Cheng\*

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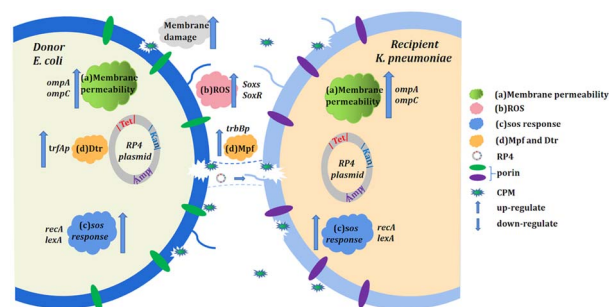
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## Carbonaceous particulate matter promotes the horizontal transfer of antibiotic resistance genes

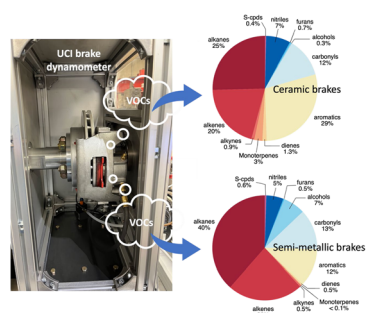
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## The molecular diversity of dissolved organic matter in forest streams across central Canadian boreal watersheds

V. Mangal,\* W. Y. Lam, E. J. S. Emilson, R. W. Mackereth and C. P. J. Mitchell\*

