

# Environmental Science: Advances

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### Cover

See Felina Armbruster *et al.*, pp. 1524–1536. Image reproduced by permission of Felina Armbruster from *Environ. Sci.: Adv.*, 2024, 3, 1524.



### Inside cover

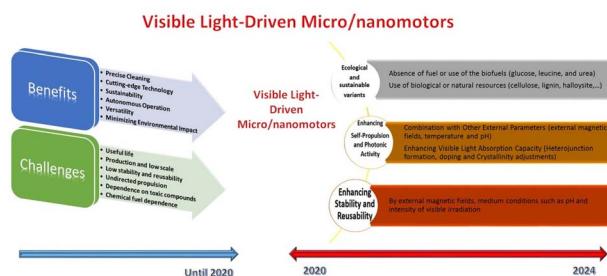
See Francesco Granata *et al.*, pp. 1537–1551. Image reproduced by permission of Francesco Granata from *Environ. Sci.: Adv.*, 2024, 3, 1537.

## CRITICAL REVIEWS

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### Advancements in visible light-driven micro/nanomotors for photodegradation of environmental pollutants

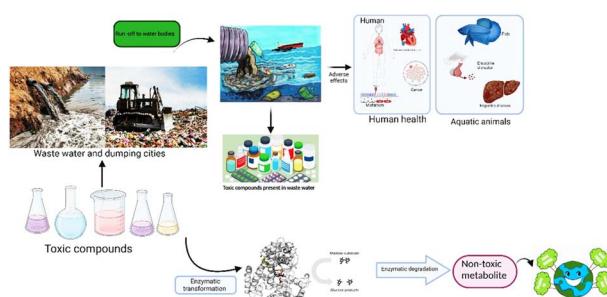
Vanessa R. Ferreira and Manuel Azenha\*



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### Laccase-mediated degradation of emerging contaminants: unveiling a sustainable solution

Pooja Thathola,\* Elda M. Melchor-Martínez, Priyanka Adhikari, Saúl Antonio Hernández Martínez, Anita Pandey and Roberto Parra-Saldívar



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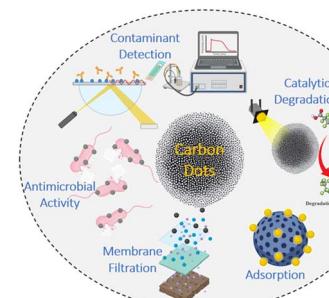


## PERSPECTIVE

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## Carbon dots: a promising path towards environmental sustainability

Ajith Manayil Parambil\* and Paulraj Rajamani\*

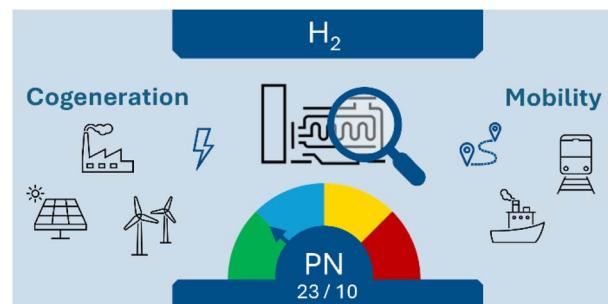


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Felina Armbruster,\* Alexander Gelner, Andreas Zepf, Maximilian Prager, Martin Härtl and Malte Jaensch



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## Dissolved oxygen forecasting in the Mississippi River: advanced ensemble machine learning models

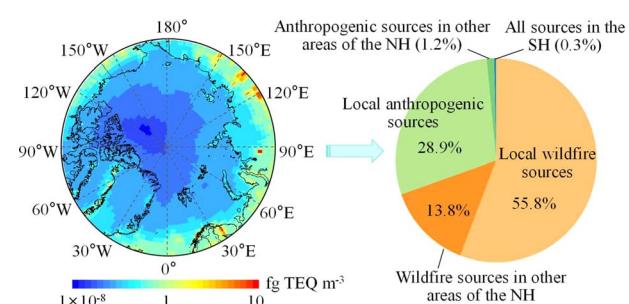
Francesco Granata,\* Senlin Zhu and Fabio Di Nunno



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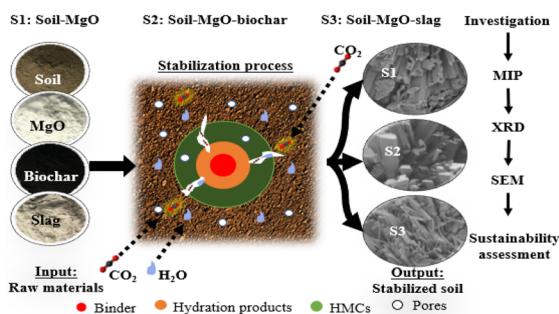
## Dioxins in the Arctic: local sources vs. long-range transport

Ling Gou, Shijie Song, Tao Huang,\* Zaili Ling, Kajie Chen, Jiayi Xin, Enze Geng, Jiaxin Wang, Yuan Zhao, Hong Gao and Jianmin Ma



## PAPERS

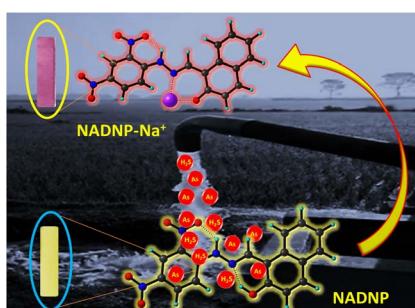
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**Impacts of biochar and slag on carbon sequestration potential and sustainability assessment of MgO-stabilized marine soils: insights from MIP analysis**

Chikezie Chimere Onyekwena, Qi Li,\* Yong Wang, Ishrat Hameed Alvi, Yunlu Hou, Chima Finnian Ukaomah and Theogene Hakuzweyezu

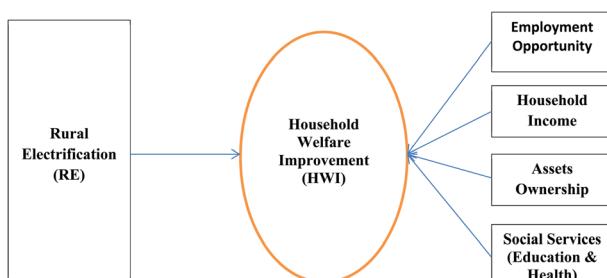
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**Naked eye detection of arsenite, arsenate, and H<sub>2</sub>S by a Schiff base naphthaldehyde conjugate using a single paper strip, based on a deprotonation mechanism**

Diptiman De, Priyotosh Ghosh, Sriman De and Prithidipa Sahoo\*

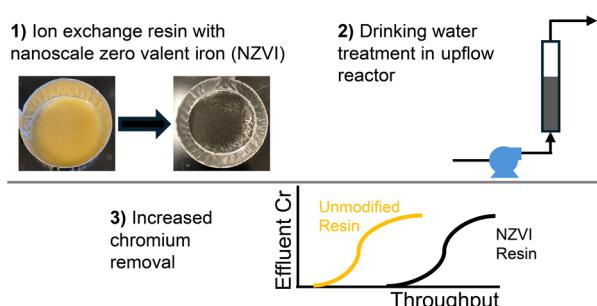
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**Household welfare improvement in the Mbulu district of Tanzania: does rural electrification matter?**

Hadija Matimbwa and Marco E. Mng'ong'o\*

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**A hybrid anion exchanger with nanoscale zero valent iron for trace hexavalent chromium removal from drinking water**

Annabel L. Mungan, Elizabeth A. Hjelvik, Anthony P. Straub and Julie A. Korak\*

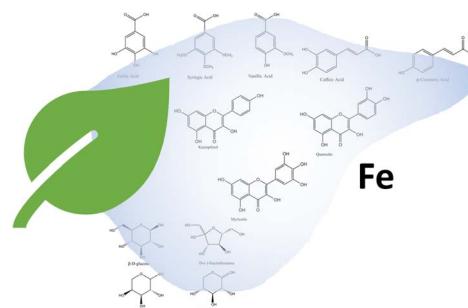


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Anurag S. Mandalika and Troy M. Runge\*



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## Intensive aquaculture affects lake's trophic status and aquatic floral diversity

Divya Dubey,\* Kiran Toppo, Saroj Kumar and Venkatesh Dutta\*

