

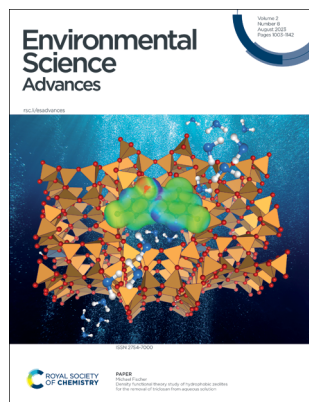
# Environmental Science: Advances

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## IN THIS ISSUE

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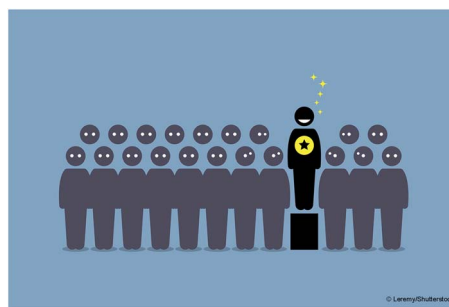
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See Michael Fischer, pp. 1082–1098. Image reproduced by permission of Dr. Frank Hoffmann and Dr. Michael Fischer from *Environ. Sci.: Adv.*, 2023, 2, 1082. A special thanks is dedicated to Dr. Frank Hoffmann for the artwork design.

## EDITORIAL

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### Outstanding Reviewers for *Environmental Science: Advances* in 2022

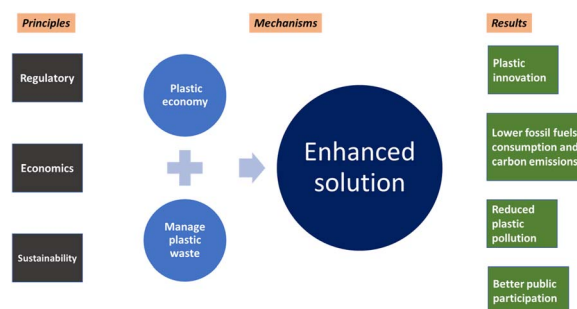


## PERSPECTIVE

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### Enhanced plastic economy: a perspective and a call for international action

Kuok Ho Daniel Tang\*



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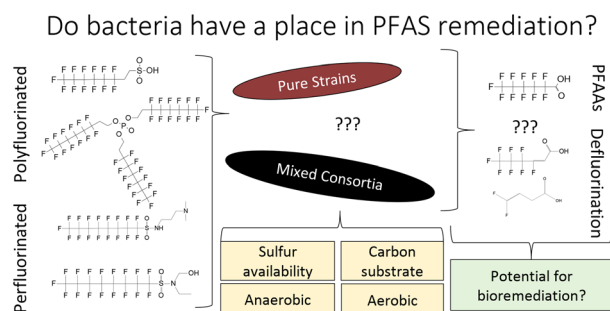


## TUTORIAL REVIEW

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**Bacterial transformation of per- and poly-fluoroalkyl substances: a review for the field of bioremediation**

Jessica A. LaFond, Paul B. Hatzinger, Jennifer L. Guelfo, Kayleigh Millerick and W. Andrew Jackson\*

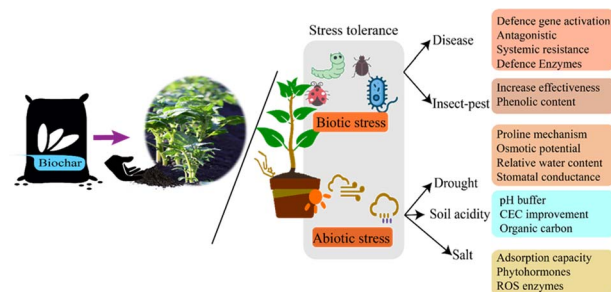


## CRITICAL REVIEWS

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**Biochar implications in cleaner agricultural production and environmental sustainability**

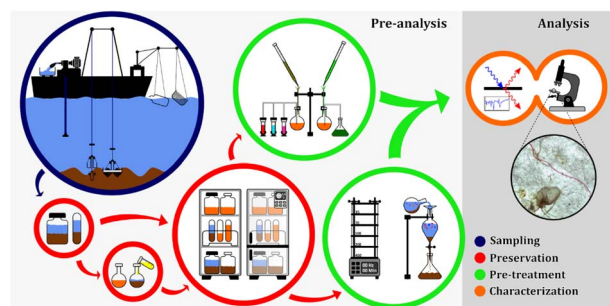
Subhash Babu,\* Raghavendra Singh, Sanjeev Kumar, Sanjay Singh Rathore,\* Deviden Yadav, Sanjay Kumar Yadav, Vivek Yadav, Meraj Alam Ansari, Anup Das, Gandhamanagenahalli Adireddy Rajanna, Owais Ali Wani, Rishi Raj, Dinesh Kumar Yadav and Vinod Kumar Singh



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**Preservation, storage, and sample preparation methods for freshwater microplastics – a comprehensive review**

Behnam Nayebi, Pratishtha Khurana, Rama Pulicharla, Shooka Karimpour\* and Satinder Kaur Brar\*

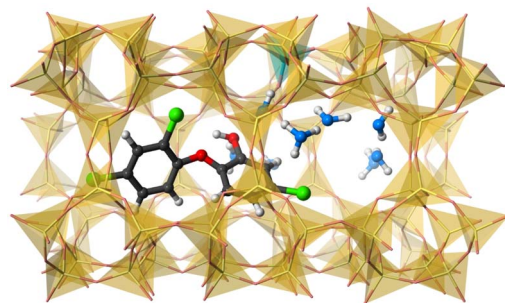


## PAPERS

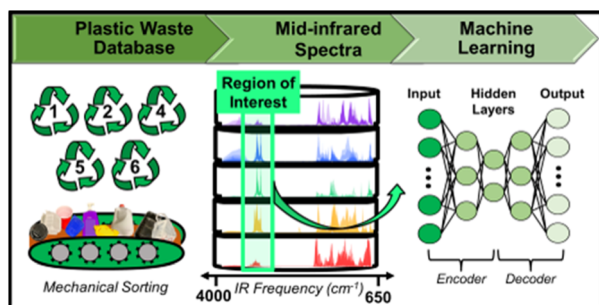
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**Density functional theory study of hydrophobic zeolites for the removal of triclosan from aqueous solution**

Michael Fischer



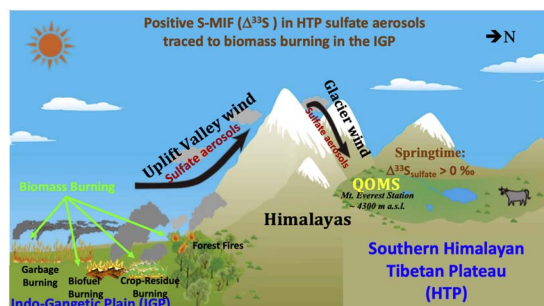
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## Mid-infrared spectroscopy and machine learning for postconsumer plastics recycling

Nicholas Stavinski, Vaishali Maheshkar, Sinai Thomas, Karthik Dantu\* and Luis Velarde\*

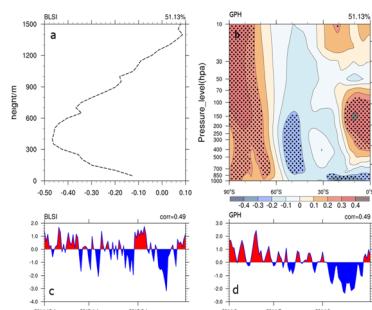
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## Tracing the origin of elevated springtime atmospheric sulfate on the southern Himalayan-Tibetan plateau

Sanjeev Dasari,\* Guillaume Paris, Qiaomin Pei, Zhiyuan Cong and David Widory\*

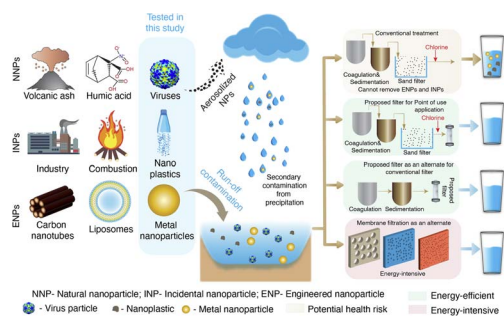
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## Relationship between air pollutant distribution and large-scale circulation

Yassin Mbululo,\* Qin Jun, Fatuma Nyihirani, Zhengxuan Yuan, Sijing Huang and Yajuan Wang

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## Highly effective nanoparticle removal in plant-based water filters

Laxmicharan Samineni,\* Sophie DeRespino, Mekayla Depaolis, Rashmi P. Mohanty, Yu-Ming Tu, Sanjana Pemmaraju, Stephanie Velegol, Debadyuti Ghosh and Manish Kumar\*



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**Correction: A polyhydroxyalkanoate synthesised by halophilic archaeon *Natrialba swarupiae***

Seema Prabhudev Rodge, Maruti Jayram Dhanavade, Swapnil Chandrakant Kajale and Niranjana Prakashrao Patil\*

