

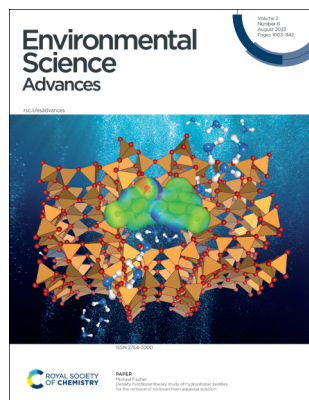
Environmental Science: Advances

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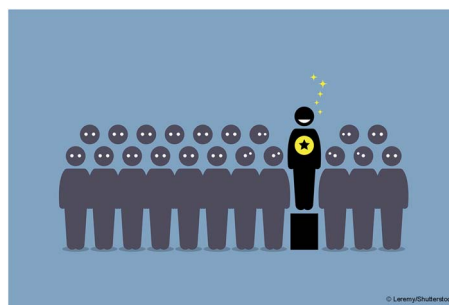
Cover

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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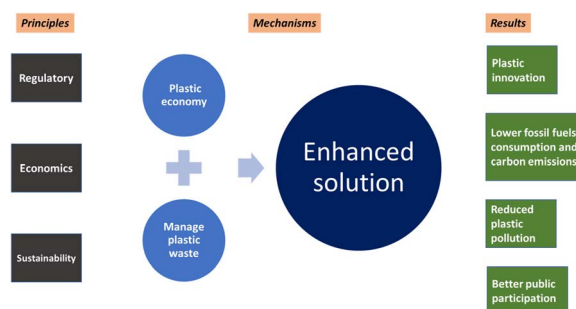


PERSPECTIVE

1011

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

Kuok Ho Daniel Tang*



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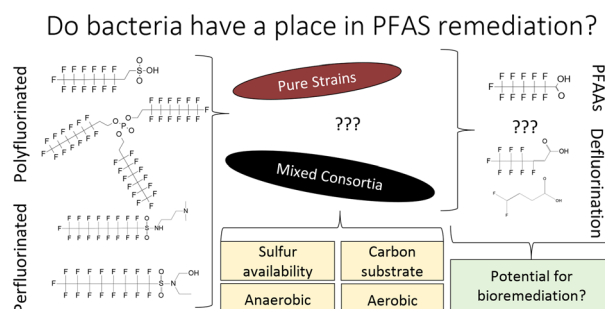


TUTORIAL REVIEW

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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*

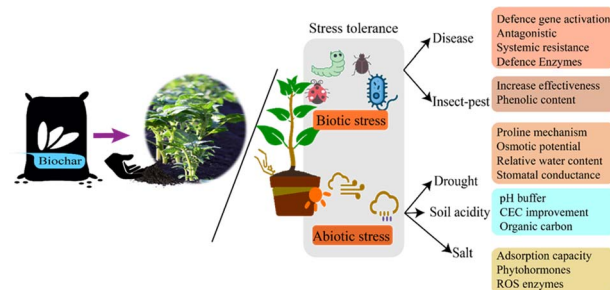


CRITICAL REVIEWS

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Biochar implications in cleaner agricultural production and environmental sustainability

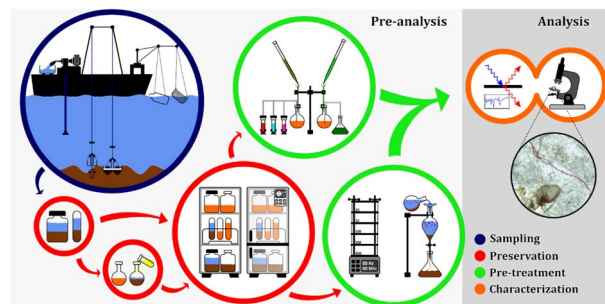
Subhash Babu,* Raghavendra Singh, Sanjeev Kumar, Sanjay Singh Rathore,* Devideen Yadav, Sanjay Kumar Yadav, Vivek Yadav, Meraj Alam Ansari, Anup Das, Gandhamanagenahalli Adireddy Rajanna, Owais Ali Wani, Rishi Raj, Dinesh Kumar Yadav and Vinod Kumar Singh



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

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

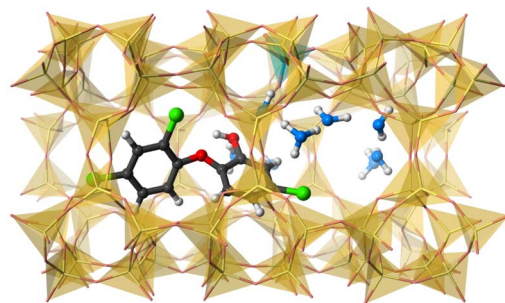


PAPERS

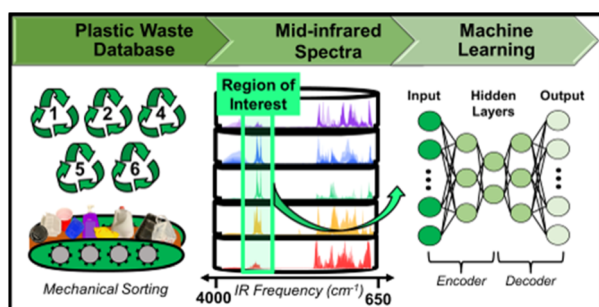
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Density functional theory study of hydrophobic zeolites for the removal of triclosan from aqueous solution

Michael Fischer



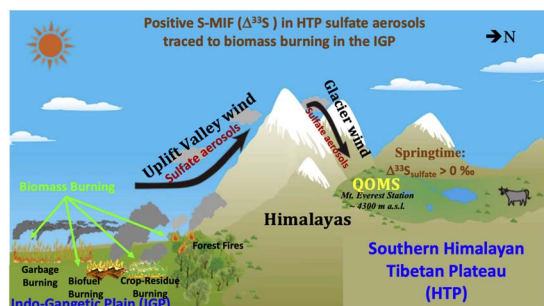
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Mid-infrared spectroscopy and machine learning for postconsumer plastics recycling

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

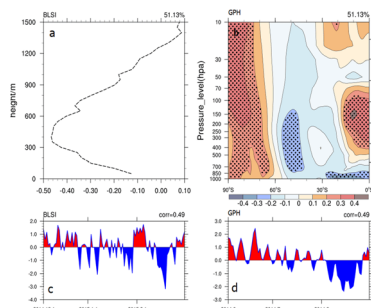
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Tracing the origin of elevated springtime atmospheric sulfate on the southern Himalayan-Tibetan plateau

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

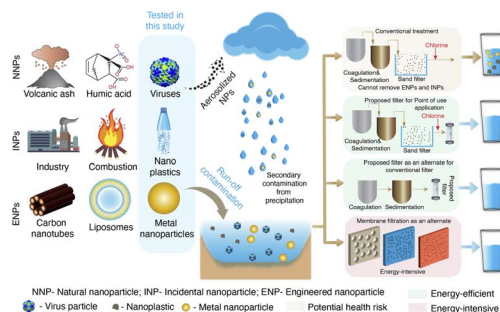
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Relationship between air pollutant distribution and large-scale circulation

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*



CORRECTION

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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*

