

# Environmental Science: Advances

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### Cover

See Shoeb Ahmed, Nirupam Aich *et al.*, pp. 1735–1745.  
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## EDITORIAL

1711

### Introduction to Soil Protection and Regeneration

Célia M. Manaia and Kevin C. Jones

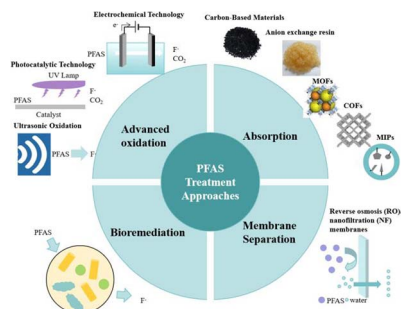


## CRITICAL REVIEW

1712

### A review on technologies for the removal of per- and polyfluoroalkyl substances (PFASs) in aquatic environments

Hao Zang, Yingming Feng,\* Shengyuan Gao,\* Mangmang Su, Qiyan Feng and Xiangfeng Chen



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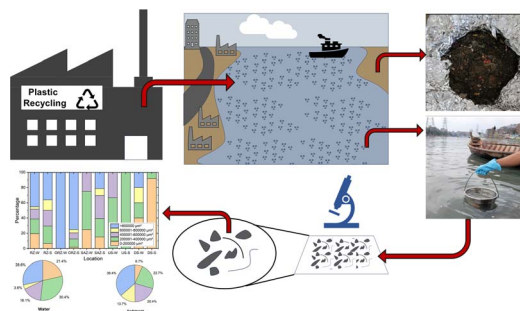
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1735

### Deciphering the connection between the informal plastic recycling industry and the microplastic pollution in the Buriganga River

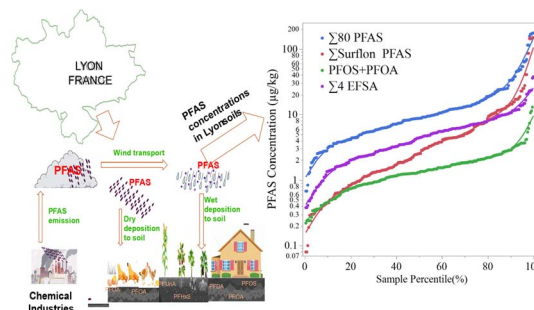
Md. Ridwan Mahfuz, Mohammad Yousran Fargab, Zaki Alam Pushan, Nafisa Islam, Shoeb Ahmed\* and Nirupam Aich\*



1746

### Occurrence of PFAS in Lyon soils: contribution and impact of industrial activities

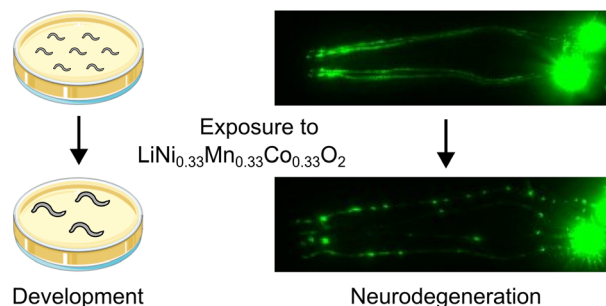
Toyin Dunsin Saliu, Darianne Pepin, Louis Delon, Justine Fontaine and Sébastien Sauvé\*



1767

### Lithium nickel manganese cobalt oxide particles cause developmental neurotoxicity in *Caenorhabditis elegans*

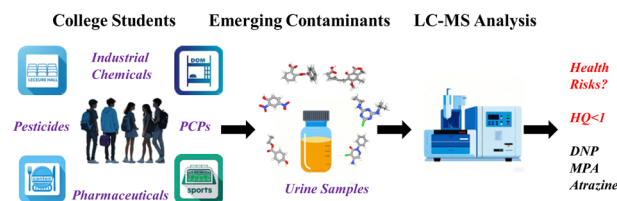
Roi Faroud Lopez, Javier Huayta, Gordon D. Z. Williams, Sarah A. Seay, Pooja D. Lalwani, Sasha N. Bacot, Avner Vengosh and Joel N. Meyer\*



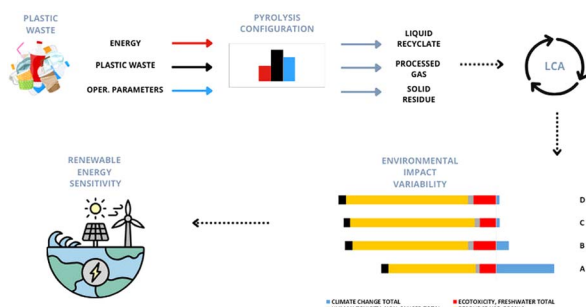
1782

### What emerging contaminants are in the urine of college students and what are their associated risks? analysis method development and applications

Meng Hu,\* Jingjing Song, Xiangru Yi, Ziwei Yuan, Chang Wang, Rui Gao, Hongyan Zou, Hongmei Zhang, Chenshan Lv, Haiyan Cui, Tao Wang, Chao Zhang, Zhiwen Wei, Keming Yun and Chang-Er Chen\*



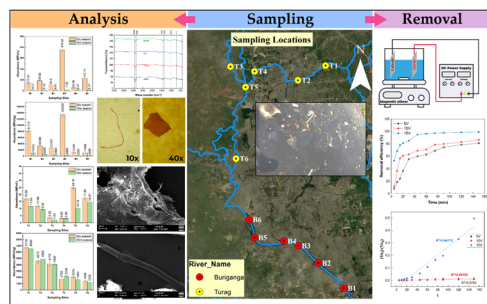
1796



## The effects of the technological setup of plastic waste pyrolysis on its environmental performance

Tatiana Trecáková,\* Aleš Paulu, Ivanna Harasymchuk, Hana Brunhoferová and Vladimír Kočí

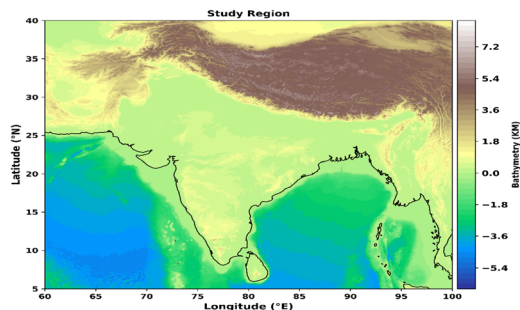
1810



## Critical analysis, characterization, and treatment of microplastics in the peripheral rivers of Dhaka city: Buriganga and Turag

Foysal Mahmud, Hridoy Roy,\* Md. Mahmud Kamal Bhuiyan and Md. Shahinoor Islam\*

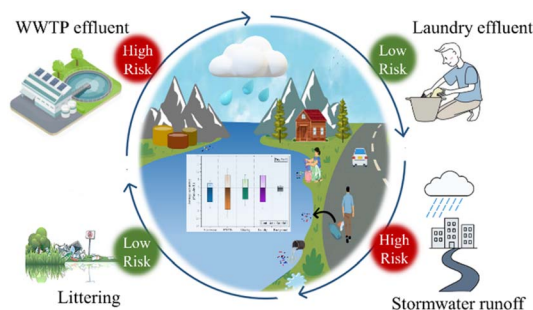
1834



## Effect of seasonal variability of aerosols in radiative forcing and Indian summer monsoon rainfall over south Asia during ENSO events

Sakshi Sharma and Arun Chakraborty\*

1848



## Pathway-specific microplastic dynamics in a Himalayan urban lake, India: insights on how continuous rainfall transforms microplastic characteristics and risk

Mozim Shafi, Ayan Lodh, Reyaz Hussain Akhoon, Khalid Muzamil Gani and Sudha Goel\*



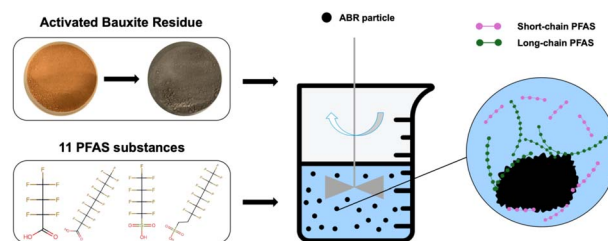


## PAPERS

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### Repurposing bauxite residue (a waste material) as an adsorbent for removing PFAS from water

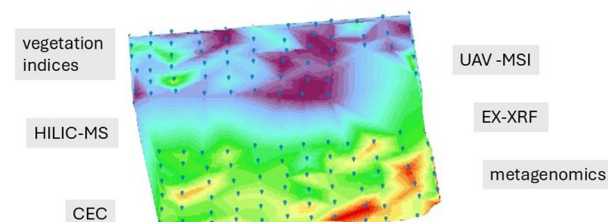
Jingya Pang, Huixin Qiu, Scott Berggren, Himanshu Tanvar, Brajendra Mishra and Maricor J. Arlos\*



1877

### Use of environmental forensics to assess land sustainability: a case study on a former coal mining site

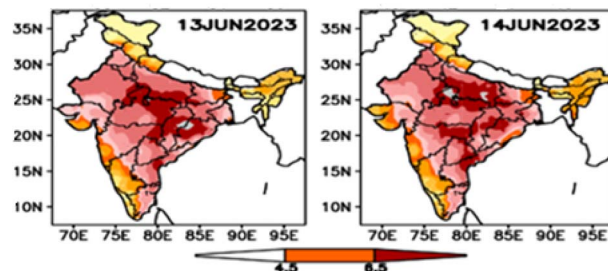
Ibrahim A Salaudeen, Kate Randall,\* Nabanita Basu, William Cheung, Catherine E. Nicholson, Justin J. Perry\* and John R. Dean



1896

### Assessing the impact of enhanced model resolution on heatwave prediction during June 2023

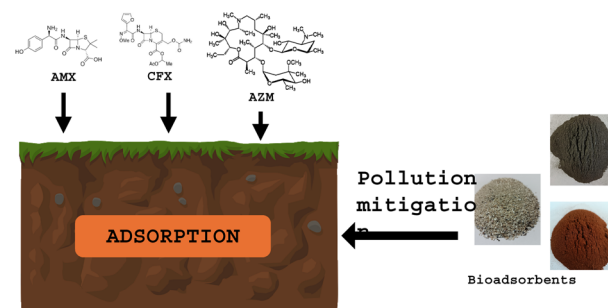
Sakshi Sharma, Harvir Singh, Anumeha Dube, Arun Chakraborty,\* M. N. Raghavendra Sreevathsa, Raghavendra Ashrit and V. S. Prasad



1913

### Simultaneous presence of antibiotics in the environment: competition for soil adsorption sites and risk mitigation by bioadsorbents

Raquel Cela-Dablanca,\* Ainoa Míguez-González, Ana Barreiro, Lucía Rodríguez-López, Manuel Arias-Estévez, Avelino Núñez-Delgado, Esperanza Álvarez-Rodríguez and María J. Fernández-Sanjurjo



## CORRECTION

1927

**Correction: Deciphering the connection between the informal plastic recycling industry and the microplastic pollution in the Buriganga River**

Md. Ridwan Mahfuz, Mohammad Yousran Fargab, Zaki Alam Pushan, Nafisa Islam, Shoeb Ahmed\* and Nirupam Aich\*

