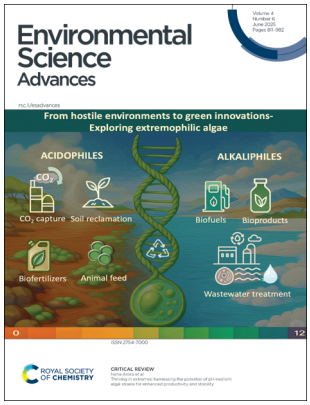
Environmental Science: Advances

rsc.li/esadvances

The Royal Society of Chemistry is the world's leading chemistry community. Through our high impact journals and publications we connect the world with the chemical sciences and invest the profits back into the chemistry community.

IN THIS ISSUE

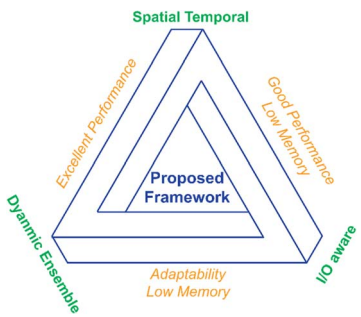
ISSN 2754-7000 CODEN ESANEB 4(6) 811–982 (2025)



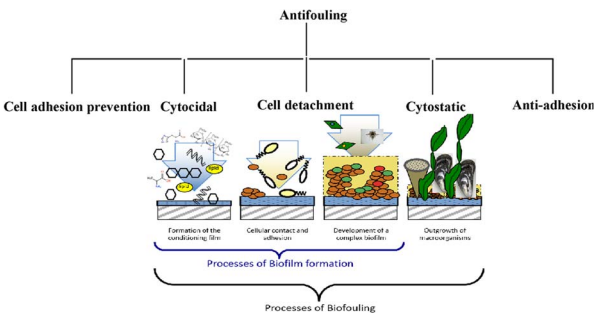
Cover
See Neha Arora *et al.*, pp. 884–900. Image reproduced by permission of Neha Arora from *Environ. Sci.: Adv.*, 2025, **4**, 884. Partially generated using Google Gemini.

Inside cover
See Ryota Nakajima *et al.*, pp. 901–911. Image reproduced by permission of JAMSTEC from *Environ. Sci.: Adv.*, 2025, **4**, 901.

PERSPECTIVE



TUTORIAL REVIEWS



ROYAL SOCIETY OF CHEMISTRY

Royal Society of Chemistry approved training courses

Explore your options.
Develop your skills.
Discover learning that suits you.

Courses in the classroom, the lab, or online

Find something for every stage of your professional development. Search our database by:

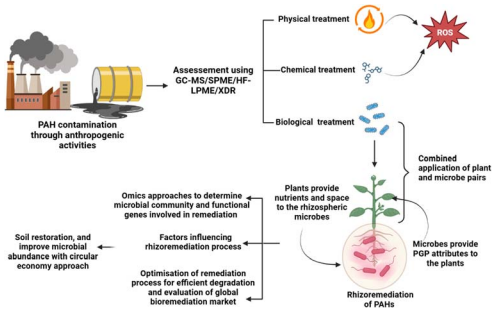
- subject area
- location
- event type
- skill level

Members **get at least 10% off**

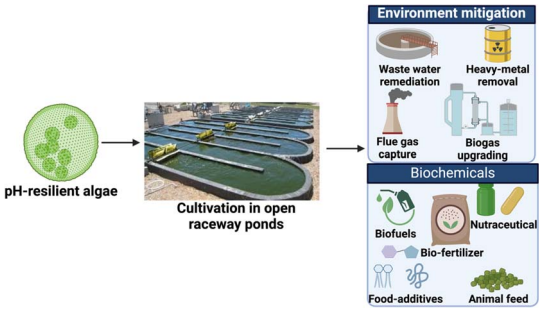
Visit **rsc.li/cpd-training**

SAVE 10%

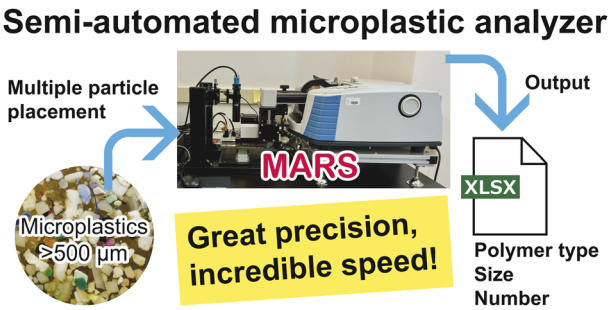
TUTORIAL REVIEWS

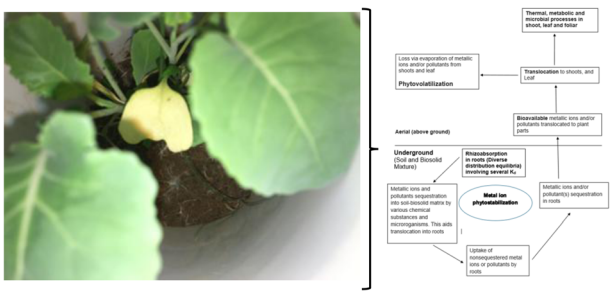


CRITICAL REVIEW



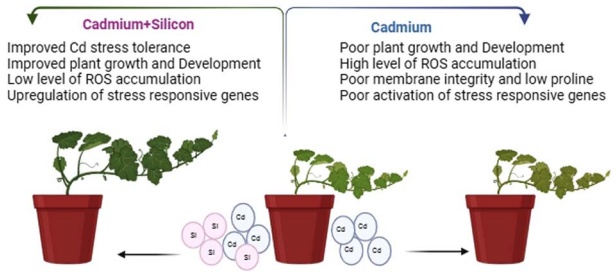
PAPERS





PAPERS

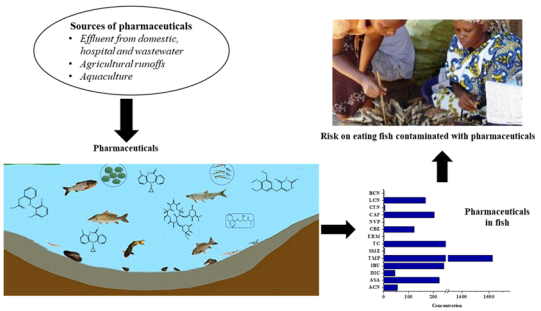
921



Silicon alleviates cadmium toxicity in muskmelon (*Cucumis melo*): integrative insights from photosynthesis to antioxidant activity to gene expression

Ram Krishna, Mohammad Shahid, Waquar Akhter Ansari,* Khalid Mashay Al-Anazi, Mohammad Abul Farah, Durgesh Kumar Jaiswal, Akhilesh Yadav, Sudhakar Pandey and Md Azizul Haque*

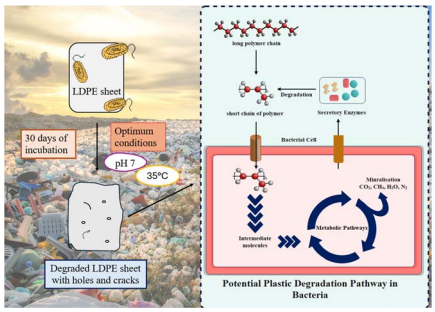
938



Occurrence and distribution of selected pharmaceuticals in fresh fish along the Kenyan coast and assessment of potential human health risks

Veronica Wayayi Ogolla Wanjeri, Eric Okuku, Jane Catherine Ngila, Edward Waiyaki, Joseph Kamau Nyingi and Patrick Gathura Ndungu*

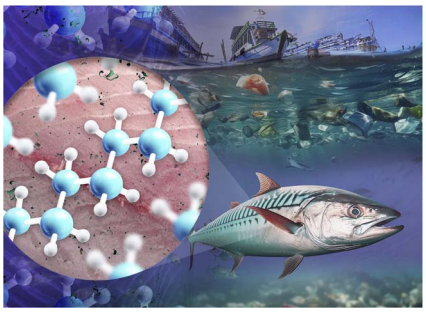
952



Introducing the LDPE degrading microbes of sedimentary systems: from dumpsite to laboratory

Anita Tirkey and Lata Sheo Bachan Upadhyay*

964



Morphochemical information on microplastic fibers found in edible tissue of local commercial fishes from the South China Sea and the Straits of Malacca for potential human consumption

Yusof Shuaib Ibrahim, Nur Izzati Abd Razak, Nur Sakinah Roslan, Ku Mohd Kalkausar Ku Yusof, Ahmad Ammarluddin Mohd Ali, Nor Fatihah Omar, Chingakham Chinglenthoiba, Nurul Najihah Mohamad and Sabiqah Tuan Anuar*