Environmental Science Processes & Impacts

rsc.li/espi

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 2050-7887 CODEN ESPICZ 26(6) 959–1108 (2024)

Cover
See Jessica M. Walker, Gerald Langer *et al.*, pp. 966–974. Image reproduced by permission of Jessica Walker from *Environ. Sci.: Processes Impacts*, 2024, **26**, 966.

Inside cover
See Nicola Carslaw *et al.*, pp. 975–990. Image reproduced by permission of Toby Carter from *Environ. Sci.: Processes Impacts*, 2024, **26**, 975.

PAPERS

ROYAL SOCIETY OF CHEMISTRY

Advance your career in science

with professional recognition that showcases your **experience, expertise and dedication**

Stand out from the crowd

Prove your commitment to attaining excellence in your field

Gain the recognition you deserve

Achieve a professional qualification that inspires confidence and trust

Unlock your career potential

Apply for our professional registers (RSci, RSciTech) or chartered status (CChem, CSci, CEnv)

Apply now

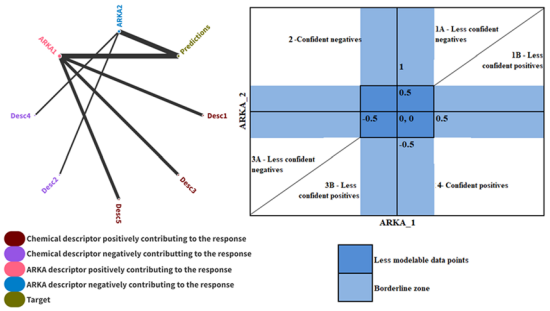
rsc.li/professional-development

PAPERS

991

ARKA: a framework of dimensionality reduction for machine-learning classification modeling, risk assessment, and data gap-filling of sparse environmental toxicity data

Arkaprava Banerjee and Kunal Roy*



1008

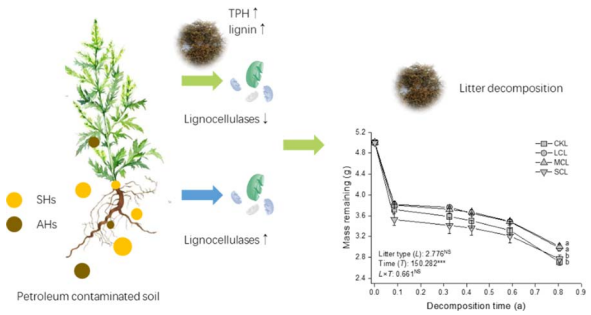
Development of a sampling protocol for collecting leaf surface material for multiphase chemistry studies

Rachele Ossola,* Rose K. Rossell, Mj Riches,* Cameron Osburn and Delphine Farmer

1022

Potential effects of soil petroleum contamination on decomposition of *Artemisia annua* plant litter

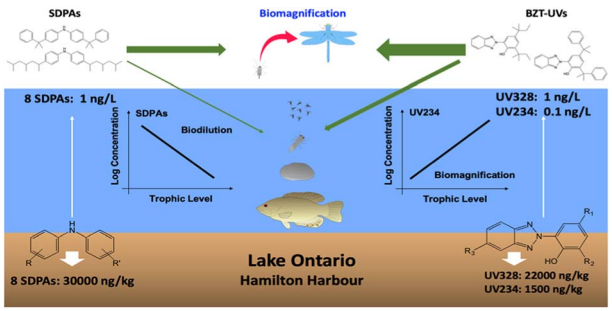
Jiahao Li, Kaixuan Liu, Yuxin Dong, Lingsu Chen, Ziquan Wang, Jinqiang Chen and Xiaoxi Zhang*



1031

Distribution and trophodynamics of substituted diphenylamine antioxidants and benzotriazole UV stabilizers in a freshwater ecosystem and the adjacent riparian environment

Zhe Lu,* Amila O. De Silva,* Christine Spencer, Gerald R. Tetreault, Shane R. de Solla and Derek C. G. Muir



PAPERS

1090

Ozone generation and chemistry from 222 nm germicidal ultraviolet light in a fragrant restroom

Michael F. Link,* Rileigh L. Robertson, Andrew Shore, Behrang H. Hamadani, Christina E. Cecelski and Dustin G. Poppendieck*