

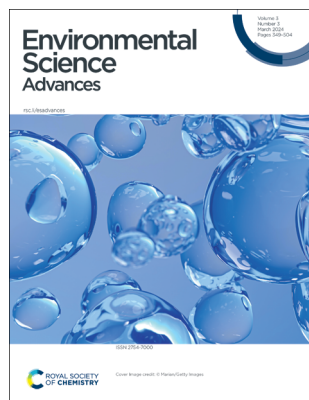
Environmental Science: Advances

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 3(3) 349–504 (2024)



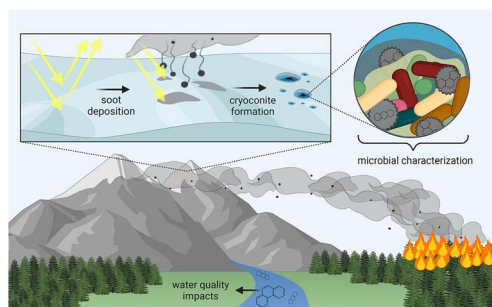
Cover
Cover Image credit: © Marian/ Getty Images.

COMMUNICATION

355

A preliminary investigation of microbial communities on the Athabasca Glacier within deposited organic matter

Milena Esser, Phillip Ankley, Caroline Aubry-Wake, Yuwei Xie, Helen Baulch, Cameron Hoggarth, Markus Hecker, Henner Hollert, John P. Giesy, John W. Pomeroy and Markus Brinkmann*

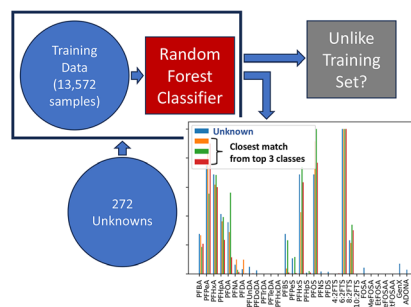


PAPERS

366

Multi-class machine learning classification of PFAS in environmental water samples: a blinded test of performance on unknowns

Tohren C. G. Kibbey,* Denis M. O'Carroll, Andrew Safulko and Greg Coyle



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

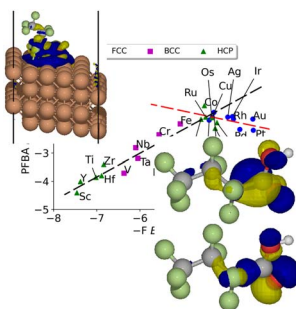
rsc.li/professional-development



383

What can Blyholder teach us about PFAS degradation on metal surfaces?

Glen R. Jenness* and Manoj K. Shukla*



402

Controlling crystallisation and dissolution of biogenic CaCO_3 via dissolved magnesium cations

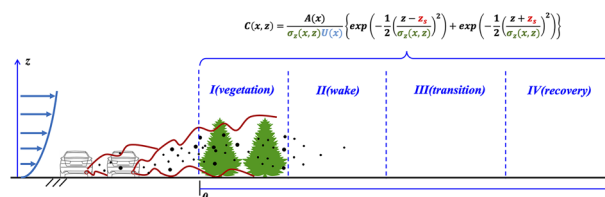
Toby Morton-Collings, Minjun Yang and Richard G. Compton*



411

Resolving the effect of roadside vegetation barriers as a near-road air pollution mitigation strategy

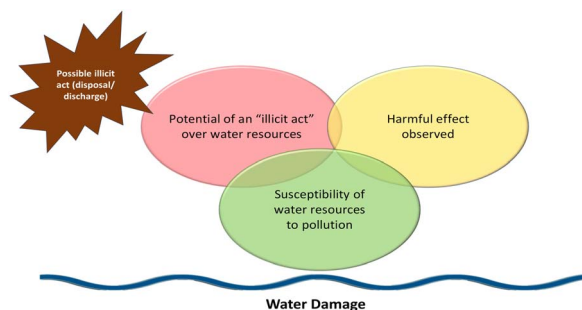
Khaled Hashad, Jonathan T. Steffens, Richard W. Baldauf, David K. Heist, Parikshit Deshmukh and K. Max Zhang*



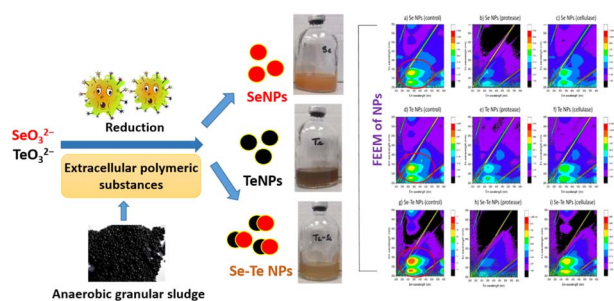
422

Substantial damage to surface water in the context of environmental crimes

Anabela Rebelo,* Andreia Franco, Felisbina Quadrado, Vanda Reis, Sofia Batista, Ana Isabel Garcia, Rodrigo Ferreira, António Quintas and Albertina M. Marques



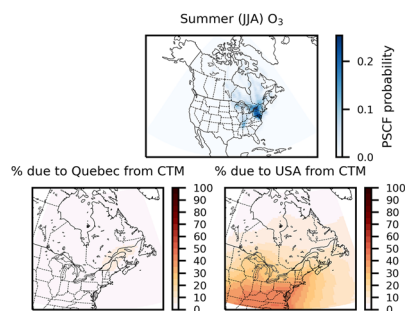
436



Role of extracellular polymeric substances in selenite and tellurite reduction by waste activated and anaerobic sludge

Sudeshna Saikia,* Kannan Pakshirajan and Piet N. L. Lens

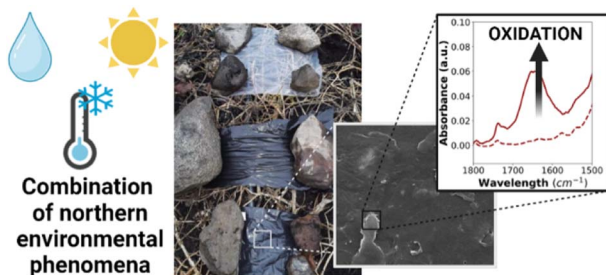
448



Transboundary transport of air pollution in eastern Canada

Robin Stevens, Charles Poterlot, Nicole Trieu, Henry Alejandro Rodriguez and Patrick L. Hayes

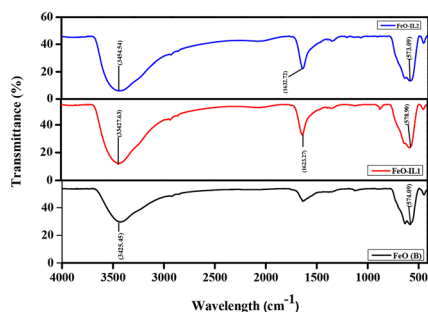
470



Weathering of agricultural polyethylene films in cold climate regions: which parameters influence fragmentation?

Laura Rowencyk,* Heidi Jahandideh, Nicholas Lin and Nathalie Tufenkji

480



Hydrophobic ionic liquid (IL)-based magnetic adsorbents: the way forward to remediate water pollution

Divya Yadav, Karmjeet Nain, Divya Dhillayan, Rishi Mittal, Shafila Bansal and Santosh Bhukal*

