

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



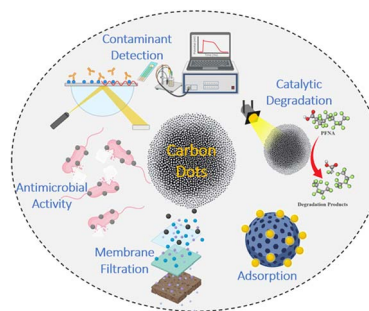
**SAVE
10%**

PERSPECTIVE

1513

Carbon dots: a promising path towards environmental sustainability

Ajith Manayil Parambil* and Paulraj Rajamani*

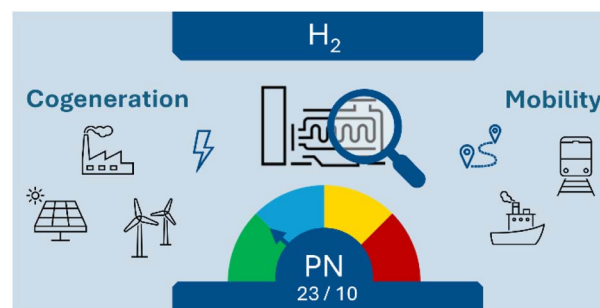


PAPERS

1524

Investigations on particle emissions of large-bore engines powered by natural gas and hydrogen

Felina Armbruster,* Alexander Gelner, Andreas Zepf, Maximilian Prager, Martin Härtl and Malte Jaensch



1537

Dissolved oxygen forecasting in the Mississippi River: advanced ensemble machine learning models

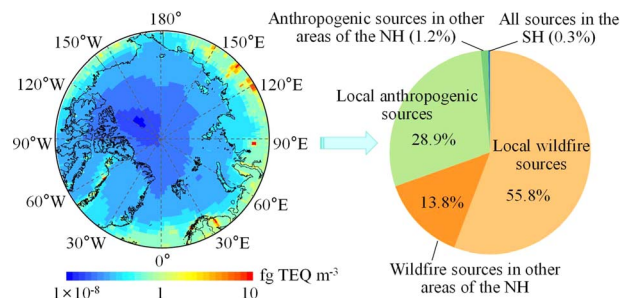
Francesco Granata,* Senlin Zhu and Fabio Di Nunno



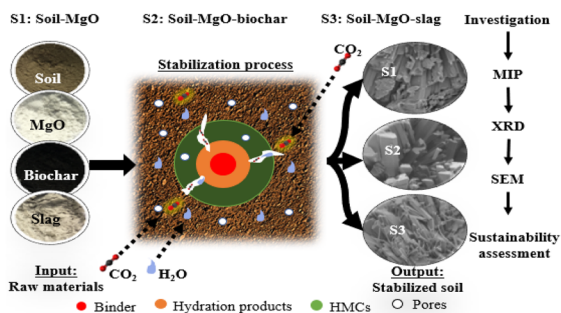
1552

Dioxins in the Arctic: local sources vs. long-range transport

Ling Gou, Shijie Song, Tao Huang,* Zaili Ling, Kaijie Chen, Jiayi Xin, Enze Geng, Jiaxin Wang, Yuan Zhao, Hong Gao and Jianmin Ma



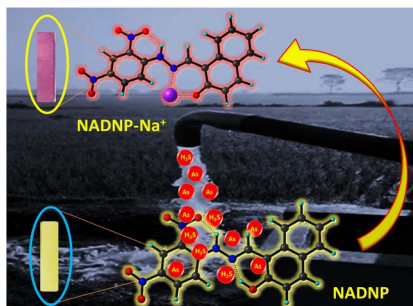
1564



Impacts of biochar and slag on carbon sequestration potential and sustainability assessment of MgO-stabilized marine soils: insights from MIP analysis

Chikezie Chimere Onyekwena, Qi Li,* Yong Wang, Ishrat Hameed Alvi, Yunlu Hou, Chima Finnian Ukaomah and Theogene Hakuzweyezu

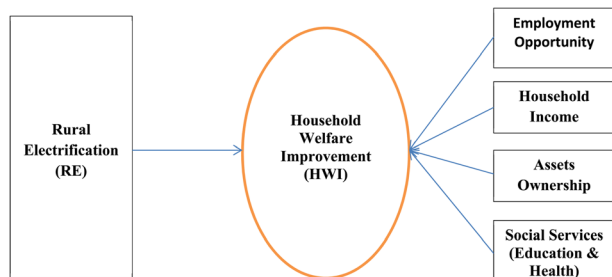
1578



Naked eye detection of arsenite, arsenate, and H₂S by a Schiff base naphthaldehyde conjugate using a single paper strip, based on a deprotonation mechanism

Diptiman De, Priyotosh Ghosh, Sriman De and Prithidipa Sahoo*

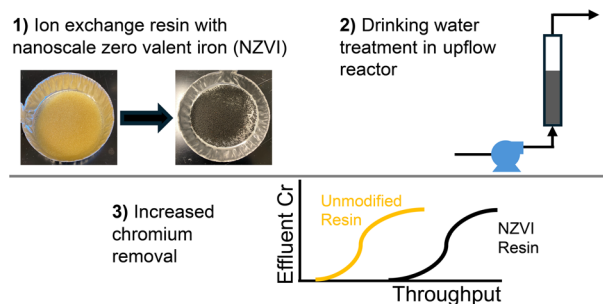
1586



Household welfare improvement in the Mbulu district of Tanzania: does rural electrification matter?

Hadija Matimbwa and Marco E. Mng'ong'o*

1598



A hybrid anion exchanger with nanoscale zero valent iron for trace hexavalent chromium removal from drinking water

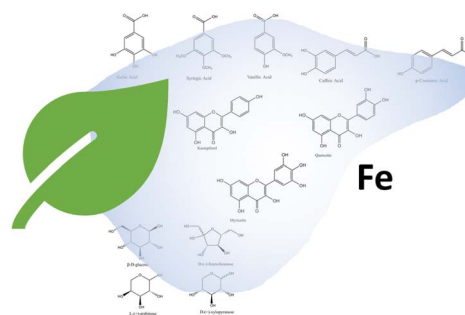
Annabel L. Mungan, Elizabeth A. Hjelvik, Anthony P. Straub and Julie A. Korak*



1616

Iron complexation by biomass model compounds

Anurag S. Mandalika and Troy M. Runge*



1628

Intensive aquaculture affects lake's trophic status and aquatic floral diversity

Divya Dubey,* Kiran Toppo, Saroj Kumar and Venkatesh Dutta*

