

Environmental Science Processes & Impacts

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Cover
See Sarah E. Rothenberg *et al.*, pp. 1975–1985. Image reproduced by permission of Sarah Rothenberg via Pixabay from *Environ. Sci.: Processes Impacts*, 2024, 26, 1975.



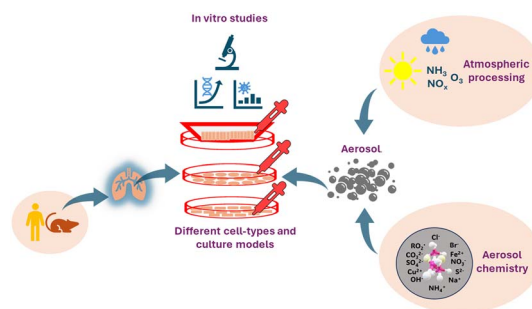
Inside cover
See Sudheer Salana and Vishal Verma, pp. 1922–1954. Image reproduced by permission of Vishal Verma and Sudheer Salana from *Environ. Sci.: Processes Impacts*, 2024, 26, 1922.

CRITICAL REVIEWS

1922

Review of *in vitro* studies evaluating respiratory toxicity of aerosols: impact of cell types, chemical composition, and atmospheric processing

Sudheer Salana and Vishal Verma*



1955

Finding non-fluorinated alternatives to fluorinated gases used as refrigerants

Juliane Glüge,* Katharina Breuer, Armin Hafner, Christian Vering, Dirk Müller, Ian T. Cousins, Rainer Lohmann, Greta Goldenman and Martin Scheringer

F-gases are critical solutions

**Fact or Fiction
???**

Hydrofluoroolefins are the solution for the future

There are no alternatives to F-gases as refrigerants

The F-gas regulation covers the environmental problems of F-gases sufficiently



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Fundamental questions
Elemental answers

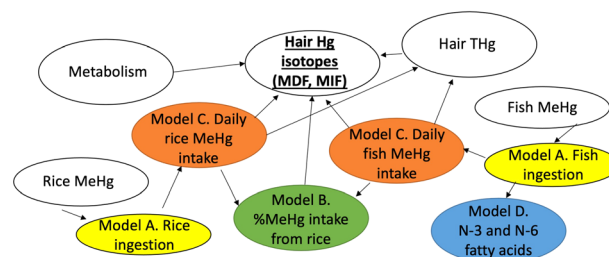


1975

Hair mercury isotopes, a noninvasive biomarker for dietary methylmercury exposure and biological uptake

Sarah E. Rothenberg,* Susan A. Korrick, Donald Harrington, Sally W. Thurston, Sarah E. Janssen, Michael T. Tate, YanFen Nong, Hua Nong, Jihong Liu, Chuan Hong and Fengxiu Ouyang

Modeling Mercury Isotope Fractionation

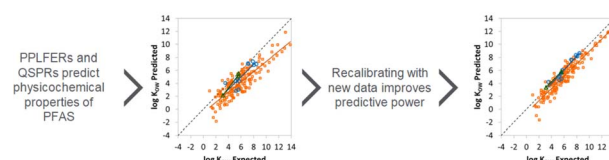


1986

Improved prediction of PFAS partitioning with PPLFRs and QSPRs

Trevor N. Brown,* James M. Armitage, Alessandro Sangion and Jon A. Arnot

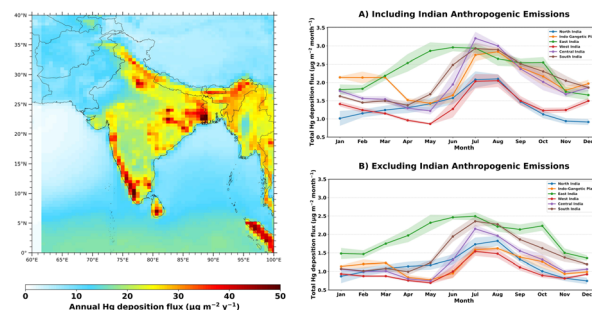
Improved prediction of PFAS partitioning with PPLFRs and QSPRs



1999

Modeling of mercury deposition in India: evaluating emission inventories and anthropogenic impacts

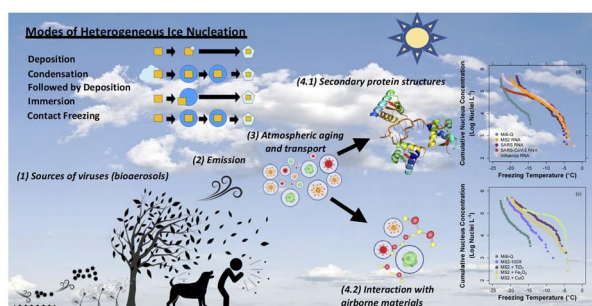
Chakradhar Reddy Malasani, Basudev Swain,* Ankit Patel, Yaswanth Pulipatti, Nidhi L. Anchan, Amit Sharma, Marco Vountas, Pengfei Liu and Sachin S. Gunthe*



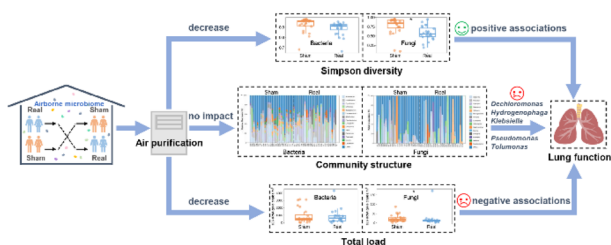
2010

Physicochemical properties and their impact on ice nucleation efficiency of respiratory viral RNA and proteins

Mattie Hibbs, Devendra Pal, Gorjana Barudzija and Parisa A. Ariya*



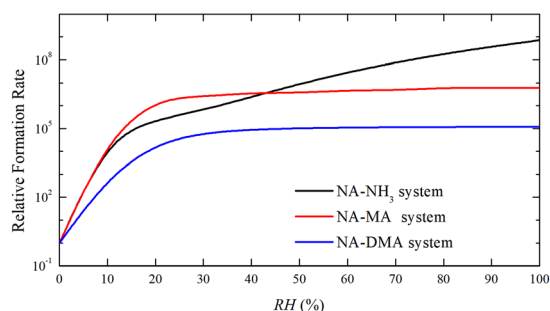
2020



Associations of indoor airborne microbiome with lung function: evidence from a randomized, double-blind, crossover study of microbial intervention

Yetong Zhao, Shan Liu, Wanzhou Wang, Luyi Li, Wenlou Zhang, Xuezhao Ji, Di Yang, Xinbiao Guo* and Furong Deng*

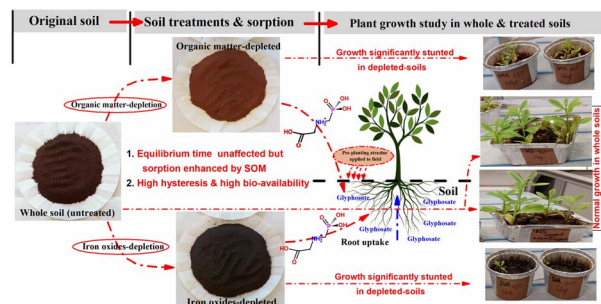
2036



Formation of atmospheric molecular clusters containing nitric acid with ammonia, methylamine, and dimethylamine

Dong-Ping Chen,* Wen Ma, Chun-Hong Yang, Ming Li, Zhao-Zhen Zhou, Yang Zhang, Xi-Cun Wang* and Zheng-Jun Quan*

2051

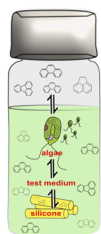


Exploring the interactions of glyphosate in soil: the sorption scenario upon soil depletion and effect on waterleaf (*Talinum triangulare*) growth

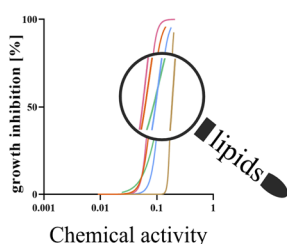
Paul N. Diagboya,* Bamidele I. Olu-Owolabi and Rolf-Alexander Düring

2062

Exposure chemical mixture



Differences in phytoplankton population vulnerability



Differences in phytoplankton population vulnerability in response to chemical activity of mixtures

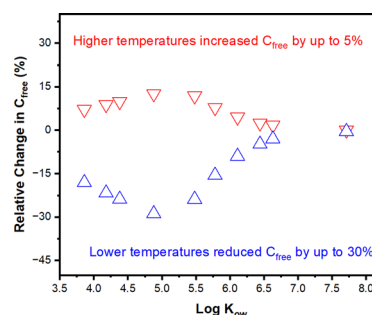
Talles Bruno Oliveira dos Anjos,* Quyen Nham, Sebastian Abel, Elin Lindehoff, Clare Bradshaw and Anna Sobek



2076

Combined temperature and salinity effects on the passive sampling of PAHs with an assessment of impacts to petroleum toxicity

Ibukun Ola,* Carsten Drebenstedt, Robert M. Burgess, Lane Tidwell, Kim Anderson, Nils Hoth and Christoph Külls



2090

Assessment of extracellular polymeric substances production and antioxidant defences in periphytic communities exposed to effluent contaminants

Carlos Silva,* Etelvina Figueira, Diana Matos, Carina Sá, Tânia Vidal, Fernando José Mendes Gonçalves, Nelson Abrantes and Joana Luísa Pereira*

