

Environmental Science Processes & Impacts

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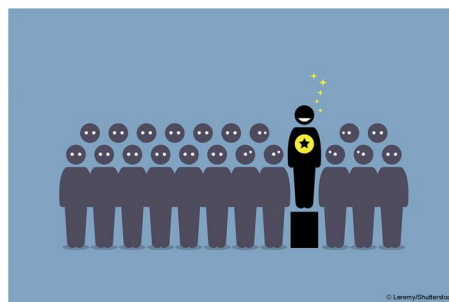


Cover
Elad Zabinsky.

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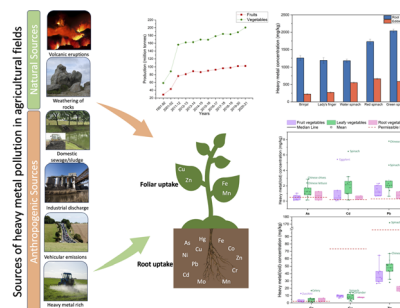


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Navneet Kaur, Jagdev Singh, Neeta Raj Sharma, Simranpreet Kaur Natt, Anand Mohan, Tabarak Malik* and Madhuri Girdhar*



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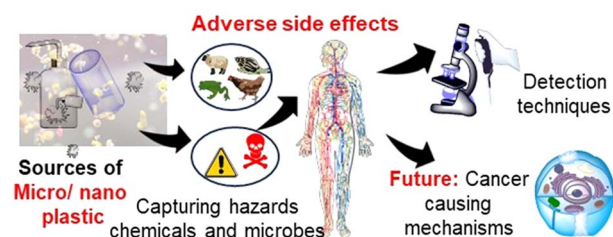
Fundamental questions
Elemental answers

CRITICAL REVIEWS

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Microscopic menace: exploring the link between microplastics and cancer pathogenesis

Manu M. Joseph,* Jyothi B. Nair and Anu Mary Joseph

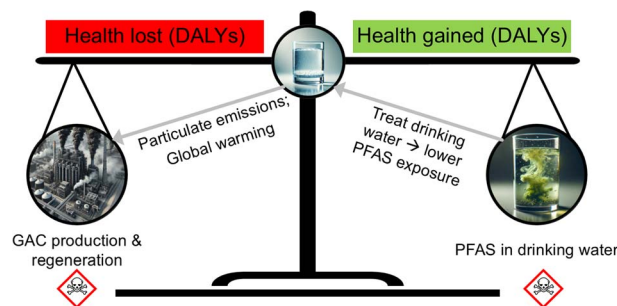


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PFAS drinking water treatment trade-offs: comparing the health burden of GAC treatment to the health benefits of reduced PFAS exposure

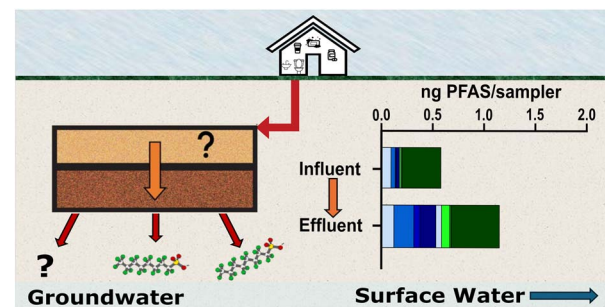
Sanne J. Smith,* Émile Sylvestre, Anne Marieke Motelica-Wagenaar, Beatrice Cantoni, Parvathi Suresh Nair and Mar Palmeros Parada



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Emerging investigator series: identification and transformation of per/polyfluoroalkyl substances (PFASs) in residential wastewater and effluent from alternative treatment systems

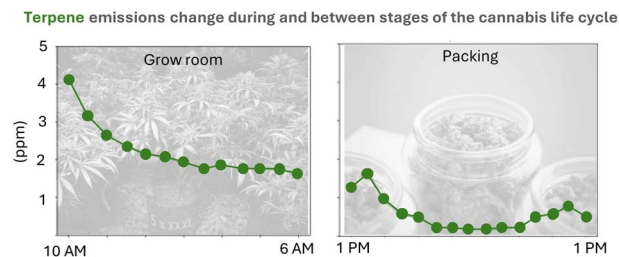
Rachel Smolinski, Meghan Oates, Arjun K. Venkatesan, Christopher J. Gobler and Carrie A. McDonough*



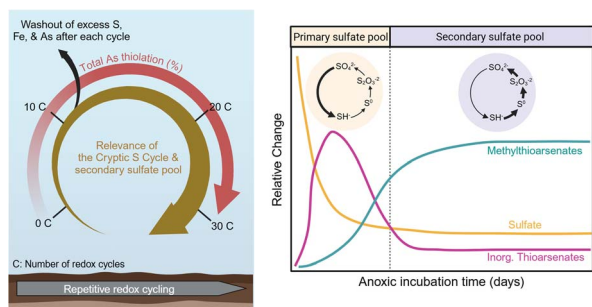
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Following the smell: terpene emission profiles through the cannabis life-cycle

Davi de Ferreyro Monticelli, Cynthia Pham, Sahil Bhandari, Amanda Giang, Nadine Borduas-Dedekind and Naomi Zimmerman*



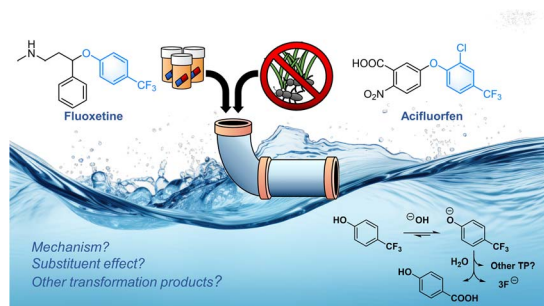
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Sulfur depletion through repetitive redox cycling unmasks the role of the cryptic sulfur cycle for (methyl)thioarsenate formation in paddy soils

José M. León Ninin,^{*} Carolin Lisbeth Dreher, Andreas Kappler and Britta Planer-Friedrich

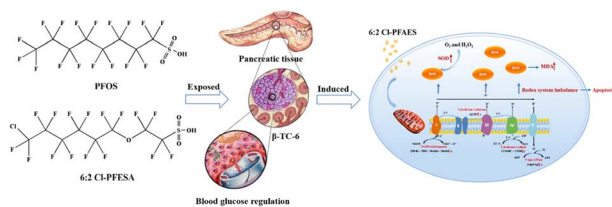
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Spontaneous aqueous defluorination of trifluoromethylphenols: substituent effects and revisiting the mechanism

Zhefei Guo, Geneviève W. Tremblay, Jingdan Chen and Shira Joudan^{*}

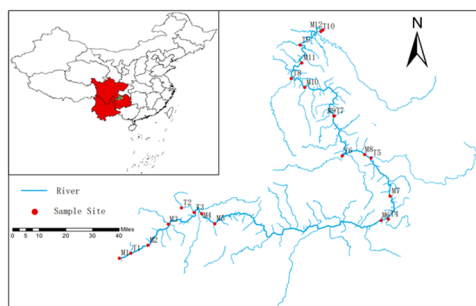
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Comparative cytotoxicity and toxicological mechanisms of 6:2 Cl-PFAES and PFOS in pancreatic β cells: implications for glucose metabolism disruption

Xiao-Min Ren, Jianying Wang, Fenqing Zhao, Pingping Zhang, Huan He, Zhixiang Xu, Bin Huang and Xuejun Pan^{*}

1877



Co-occurrence of microbial source tracking markers and antibiotic resistance genes in Chishui River, China

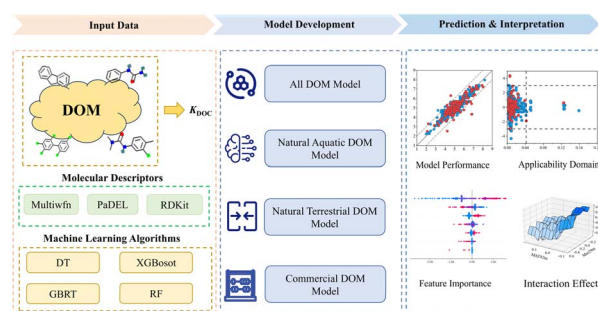
Qianxing Zheng, Renren Wu, Xinnuo Chen, Pengxia Liu, Kaiming Li, Changdong Ke, Yongjie Wu, Yang Zhang,^{*} Shijie Xiao and Jianhong Huang^{*}



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Machine learning prediction of DOC–water partitioning coefficients for organic pollutants from diverse DOM origins

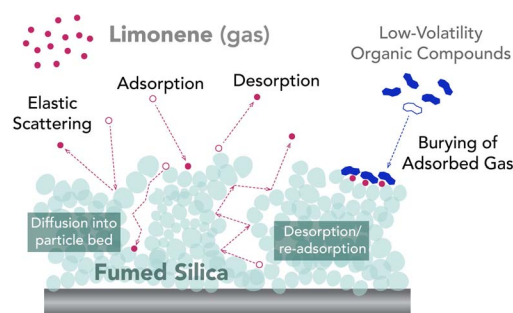
Ruyue Jin, Yuzhen Liang* and Zhenqing Shi



1902

Surfaces, silica and semivolatile organics—limonene uptake and desorption indoors and outdoors

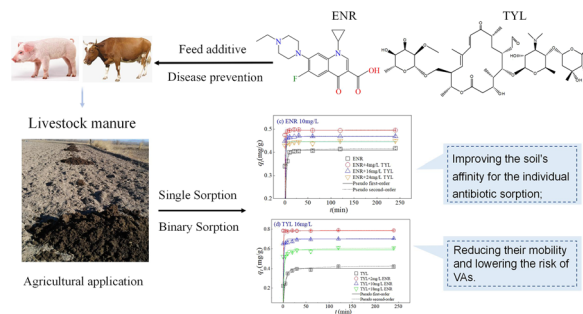
Ryan S. Reynolds, Kristen N. Johnson, Katelyn Pacaud, Michael Ezell, Pascale S. J. Lakey, Manabu Shiraiwa and Barbara J. Finlayson-Pitts*



1914

Collaborative sorption behavior of tylosin and enrofloxacin in loess soil: implications for veterinary antibiotic fate

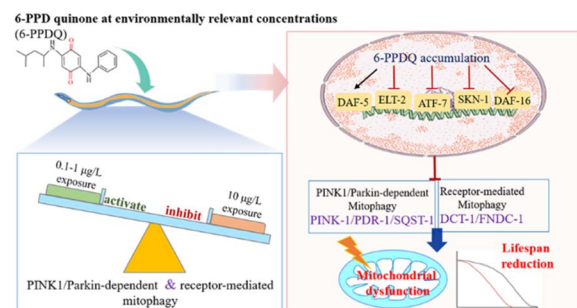
Zhanrong Jia, Yufeng Jiang,* Yanni Sun, Kui Huang and Yingqin Wu



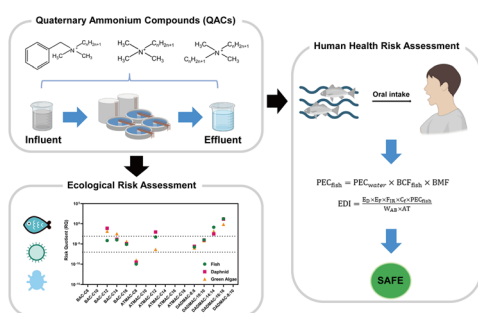
1928

An environmentally relevant concentration of 6-PPD quinone inhibits two types of mitophagy to cause mitochondrial dysfunction and lifespan reduction in *Caenorhabditis elegans*

Xin Hua and Dayong Wang*



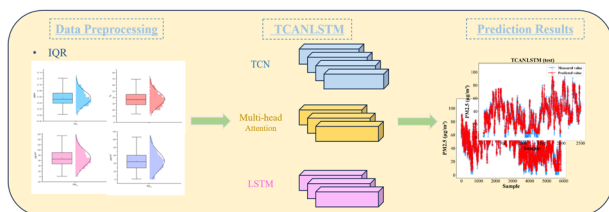
1941



Quaternary ammonium compounds in wastewater during the COVID-19 pandemic: occurrence, exposure evaluation and risk assessment

Jingjing Li, Yongfeng Lin, Lihua Yu, Wei Gao, Bing Wang* and Yuxin Zheng

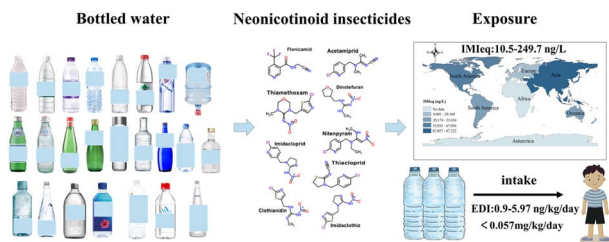
1951



An optimized TCN-LSTM model for predicting PM_{2.5} in metro systems

Canyun Yang, Zhang Kai, Xinyuan Wang, Tong Hu and Hongbin Liu*

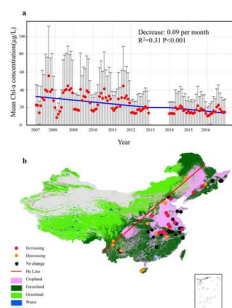
1960



Neonicotinoid pesticide residues in bottled water: a worldwide assessment of distribution and human exposure risks

Yuanchen Chen, Ruirui Meng, Gege Liu, Wenfei Yu and Hangbiao Jin*

1971



Spatiotemporal changes in chlorophyll-a concentration in China's lakes and its driving factors

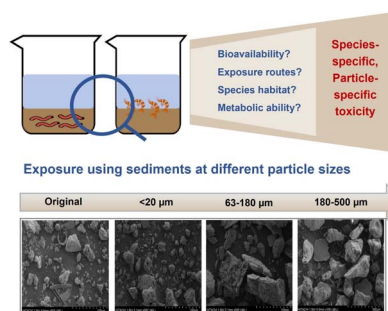
Liwei Gao, Xin Huang, Xueqiang Lu, Yindong Tong, Jianfeng Feng, Yingying Xu and Yan Lin*



1988

Role of sediment particle size in cypermethrin toxicity to *Chironomus dilutus* and *Hyalella azteca*: insights from bioavailability and exposure pathways

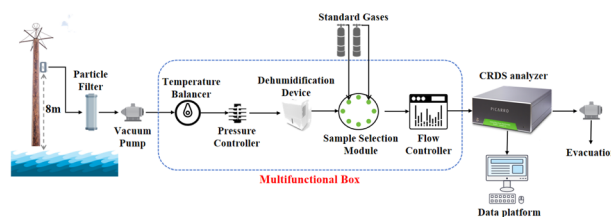
Hang Su, Jie Zhang, Huizhen Li* and Jing You



1998

Evaluation of emissions and spatial distribution of methane from offshore oil and gas platforms in the Liaodong Bay of China based on shipboard measurement

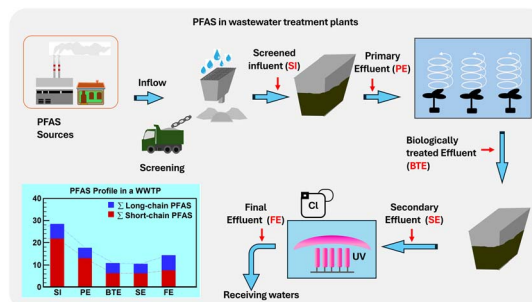
Yue Yu, Zongcai He, Qing Su, Xuemei Xu, Jiayi Cheng, Yue Ming, Xiaomeng Wang,* Hong Chen and Jianbo Han



2008

Distribution and variability of per- and polyfluoroalkyl substances (PFASs) across three categories of wastewater treatment plants in Kaohsiung, the industrial hub of Taiwan

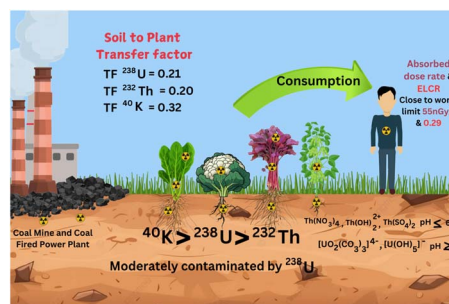
Chien-Hsing Wu, Li-Man Lin, Shu-fen Lin, Chih-Lung Wang, Bo-Wun Huang, Justus Kavita Mutuku* and Guo-Ping Chang-Chien*



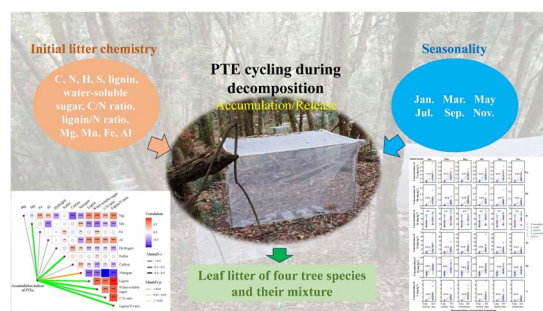
2022

Spatial distribution and soil-to-plant transfer factors of radionuclides in agricultural soil around the Barapukuria coal mining site, Bangladesh

Tonima Parvin, Saiful Islam,* Jannatul Ferdous, Saurav Dey Shuvo and Pradip K. Bakshi



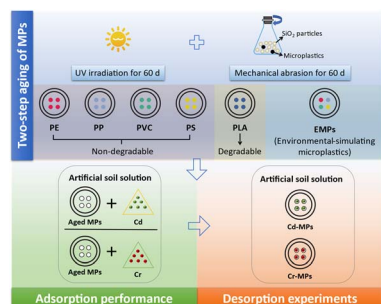
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Initial litter chemistry and seasonality drive potentially toxic element cycling during decomposition in a subtropical forest: insights from monospecific and mixed litter

Juan Li, Yuntong Liu,* Chuansheng Wu and Xun Liu*

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Insight into the interactions between microplastics and heavy metals in agricultural soil solution: adsorption performance influenced by microplastic types

Yu-liang Liao, Chun-dan Gan, Xue Zhao, Xin-yue Du and Jin-yan Yang*

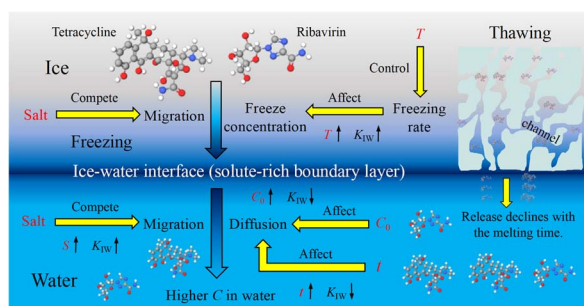
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Increased phenanthrene toxicity to *Eisenia fetida* upon co-exposure to *o*-xylene

Guofeng Li, Zhongran Wu, Haifeng Chi, Shanna Lin and Chao Cai*

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Ice-water distribution of antibiotics and antiviral drugs during the freezing–thawing process: influencing factors and related mechanisms

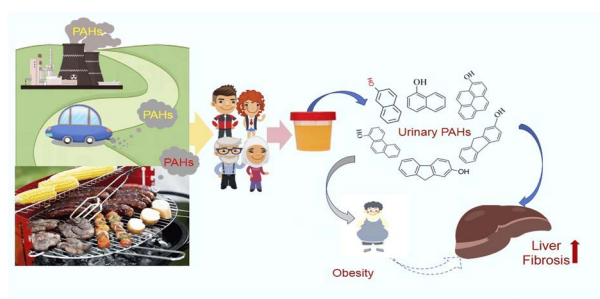
Wenbin Wei, Linke Ge,* Siyuan Wang, Xuanyan Li, Peng Zhang and Jiahong Wang



2082

Obesity as a mediator in the association between urinary polycyclic aromatic hydrocarbon exposure and liver fibrosis risk in US adults

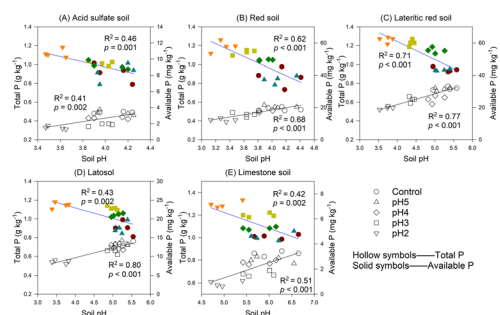
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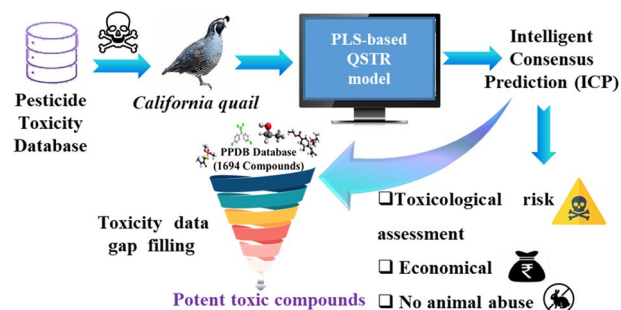
Hui Wei, Hongru Li, Qi Wang, Huimin Xiang, Ziqiang Liu and Jiaen Zhang*



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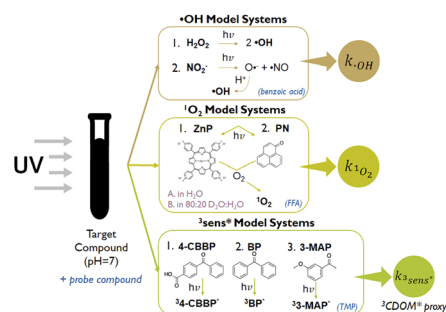
Abhisek Samal, Shubha Das and Probir Kumar Ojha*



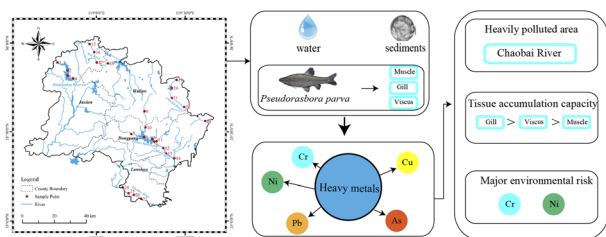
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Luana de Brito Anton, Andrea I. Silverman and Jennifer N. Apell*



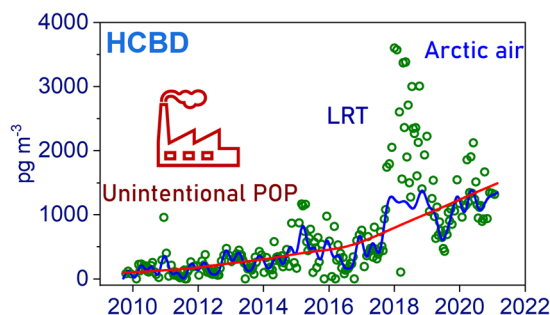
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Guoao Xie, Wenxia Wang, Yekai Sun, Chen Chen, Lijuan Cai, Yanqing Guo, Shah Saud, Haitao Chen, Xiuling Li* and Changwei Hu*

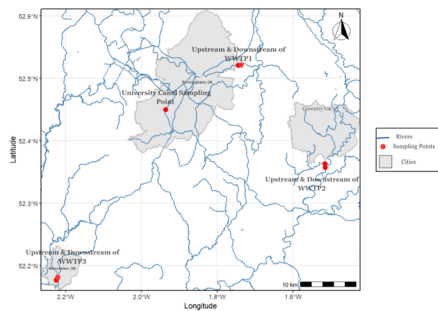
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Yu-Mei Hsu, Fiona Wong, Hayley Hung,* Chubashini Shunthirasingham, Wenlong Li, Nick Alexandrou, Helena Dryfhout-Clark, Cecilia Shin, Richard Park, Jared Chisamore, Artur Pajda, Ronald Noronha, Enzo Barresi, Phil Fellin and Henrik Li

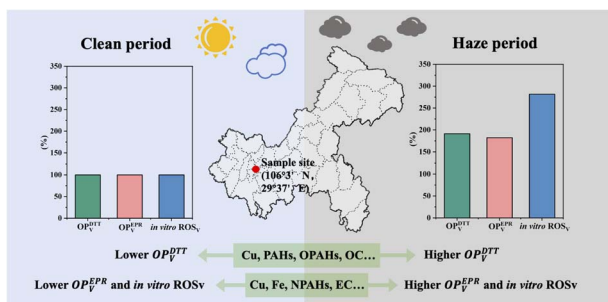
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Simeon Onoja,* Mohamed Abou-Elwafa Abdallah and Stuart Harrad

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Jinyitao Wang, Fang Zhou, Wei Zhang, Xinquan Zhao, Steven J. Campbell, Li Zhou, Jialiang Feng, Qingyan Fu, Arthur W. H. Chan, Fumo Yang, Mi Tian* and Shunyao Wang*



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Huanling Wu, Binghua Sun and Jinhua Li*

