

# Environmental Science Processes & Impacts

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## IN THIS ISSUE

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**Cover**  
See Jackson P. Webster *et al.*, pp. 667–685. Image reproduced by permission of Jackson Webster from *Environ. Sci.: Processes Impacts*, 2024, 26, 667.



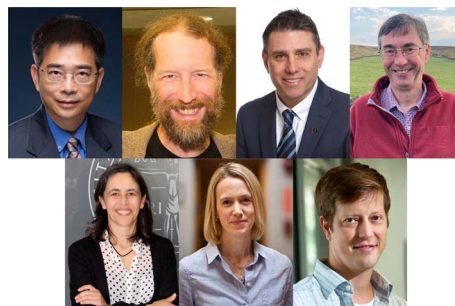
**Inside cover**  
See Syeed Md Iskander *et al.*, pp. 657–666. Image reproduced by permission of Syeed Md Iskander from *Environ. Sci.: Processes Impacts*, 2024, 26, 657.

## EDITORIAL

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### 2023 Outstanding Papers published in the *Environmental Science* journals of the Royal Society of Chemistry

Zongwei Cai, Neil Donahue, Graham Gagnon, Kevin C. Jones, Célia Manaia, Elsie Sunderland and Peter J. Vikesland

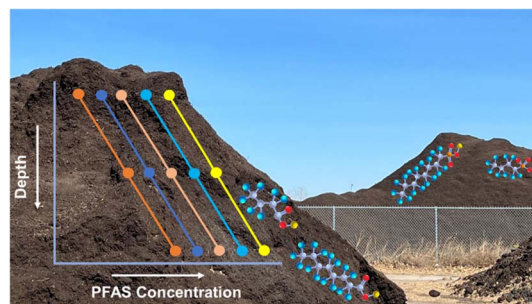


## COMMUNICATION

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### PFAS occurrence and distribution in yard waste compost indicate potential volatile loss, downward migration, and transformation

Biraj Saha, Mohamed Ateia, Sujan Fernando, Jiale Xu, Thomas DeSutter and Syeed Md Iskander\*



# Environmental Science: Atmospheres

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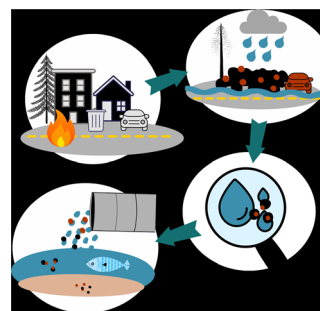
Fundamental questions  
Elemental answers



667

## Wildland–urban interface wildfire increases metal contributions to stormwater runoff in Paradise, California

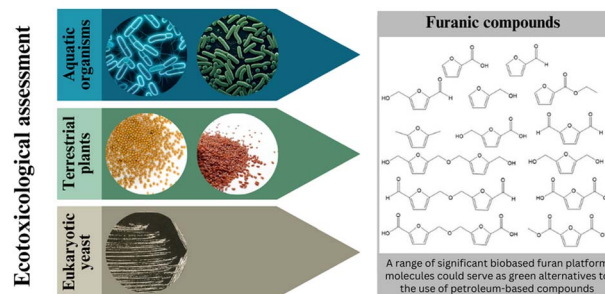
Lauren J. Magliozzi, Sandrine J. Matiasek, Charles N. Alpers, Julie A. Korak, Diane McKnight, Andrea L. Foster, Joseph N. Ryan, David A. Roth, Peijia Ku, Martin Tsz-Ki Tsui, Alex T. Chow and Jackson P. Webster\*



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## Ecotoxicological assessment of biomass-derived furan platform chemicals using aquatic and terrestrial bioassays

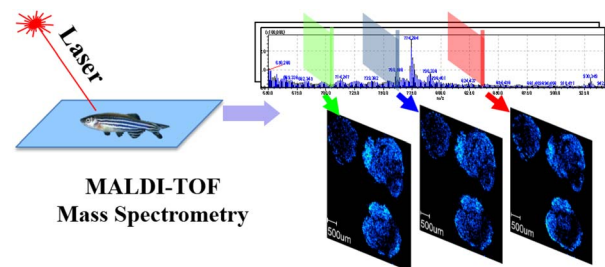
Stella Parmaki, Marlen I. Vasquez, Maria Patsalou, Rafael F. A. Gomes, Svilen P. Simeonov, Carlos A. M. Afonso and Michalis Koutinas\*



700

## Investigating the effects of PFOA accumulation and depuration on specific phospholipids in zebrafish through imaging mass spectrometry

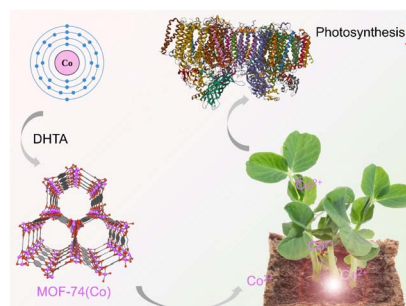
Qiuyue Shi, Zhengfen Wan, Shaoyong Lu,\* Cheng Fang, Changzhou Yan and Xian Zhang\*



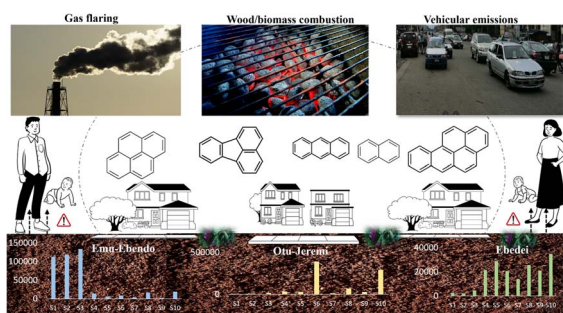
710

## Phytotoxicity of metal–organic framework MOF-74(Co) nanoparticles to pea seedlings

Ruonan Hu, Heyu Huang, Hua Chen, Jiahao Zhang, Qinmei Zhong,\* Xian Wu and Shengtao Yang\*



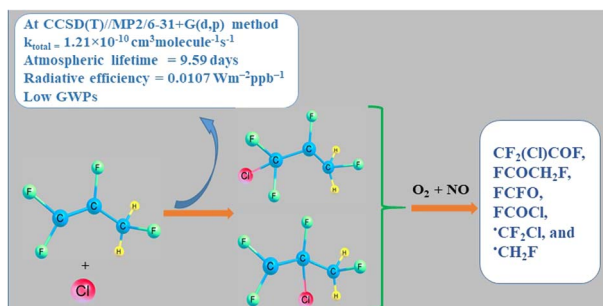
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### Distribution, sources, and risk of polycyclic aromatic hydrocarbons in soils from rural communities around gas flaring points in the Niger Delta of Nigeria

Eze W. Odali, Chukwujindu M. A. Iwegbue,\* Francis E. Egbueze, Godwin E. Nwajei and Bice S. Martincigh

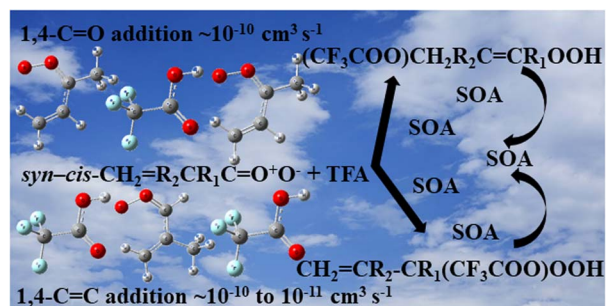
734



### Oxidation pathways and kinetics of the 1,1,2,3-tetrafluoropropene ( $\text{CF}_2=\text{CF}-\text{CH}_2\text{F}$ ) reaction with Cl-atoms and subsequent aerial degradation of its product radicals in the presence of NO

Udeshna Priya Kakati, Dikshita Dowerah, Ramesh Chandra Deka, Nand Kishor Gour\* and Subrata Paul\*

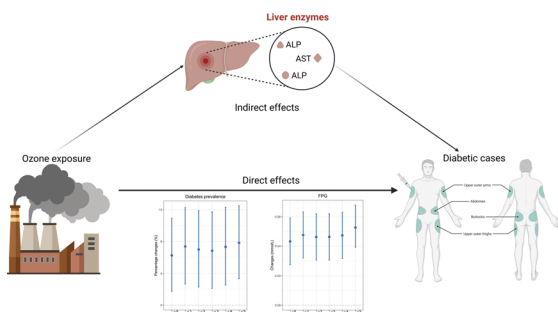
751



### New insights into the mechanism and kinetics of the addition reaction of unsaturated Criegee intermediates to $\text{CF}_3\text{COOH}$ and tropospheric implications

Makroni Lily, Xiaofan Lv, Asit K. Chandra,\* Narcisse Tsona Tchinda\* and Lin Du\*

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### The role of liver enzymes in the association between ozone exposure and diabetes risk: a cross-sectional study of Zhuang adults in China

Xiaoyun Ma, Han Wu, Huishen Huang, Peng Tang, Xiaoyun Zeng, Dongping Huang, Shun Liu\* and Xiaoqiang Qiu\*

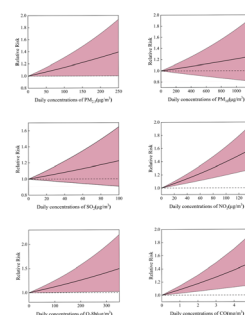


## PAPERS

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## Association between short-term ambient air pollutants and type 2 diabetes outpatient visits: a time series study in Lanzhou, China

Yilin Ye, Hongran Ma, Jiyuan Dong\* and Jiancheng Wang



## COMMENT

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## Comment on "Detection of exposed phosgene in household bleach: development of a selective and cost-effective sensing tool" by S. Saha and P. Sahoo, *Environ. Sci.: Processes Impacts*, 2023, 25, 1144

Patrick M. Plehiers\*

