

# Environmental Science: Atmospheres

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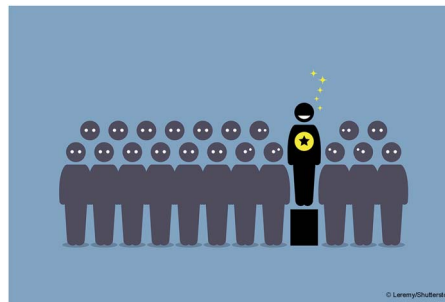


**Inside cover**  
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**Outstanding Reviewers for *Environmental Science: Atmospheres* in 2022**



## PAPERS

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**Detection of ship emissions from distillate fuel operation *via* single-particle profiling of polycyclic aromatic hydrocarbons**

Lukas Anders, Julian Schade, Ellen Iva Rosewig, Thomas Kröger-Badge, Robert Irsig, Seongho Jeong, Jan Bendl, Mohammad Reza Saraji-Bozorgzad, Jih-Hong Huang, Fu-Yi Zhang, Chia C. Wang, Thomas Adam, Martin Sklorz, Uwe Etzien, Bert Buchholz, Hendryk Czech, Thorsten Streibel, Johannes Passig\* and Ralf Zimmermann



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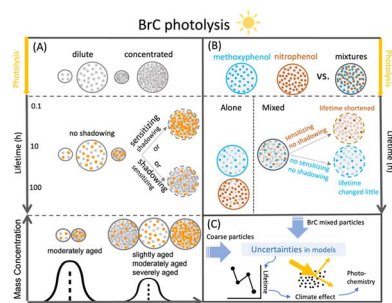
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## Co-photolysis of mixed chromophores affects atmospheric lifetimes of brown carbon

Yalin Wang, Tian Qiu, Cong Zhang, Tianwei Hao, Brix Raphael Go, Rui Feng Zhang, Masao Gen, Man Nin Chan, Dan Dan Huang, Xinlei Ge, Junfeng Wang, Lin Du, Ru-Jin Huang, Qi Chen, Ka In Hoi, Kai Meng Mok, Chak K. Chan and Yong Jie Li\*



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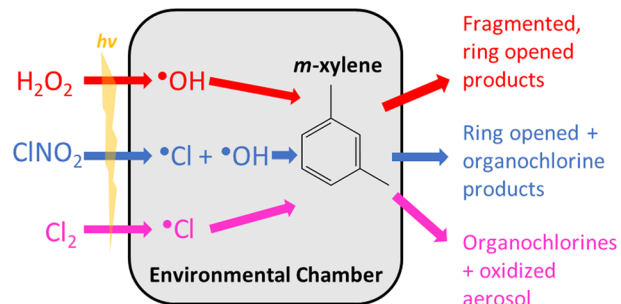
Khanh Do, Manasi Mahish, Arash Kashfi Yeganeh, Ziqi Gao, Charles L. Blanchard and Cesunica E. Ivey\*



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Nirvan Bhattacharyya, Mrinali Modi, Leif G. Jahn and Lea Hildebrandt Ruiz\*



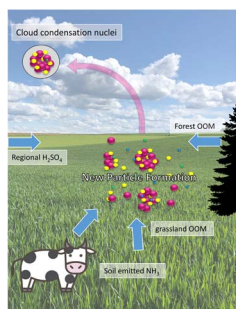
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William Berelson,\* Nick Rollins, Jinsol Kim, Emma Johnson, Esther Margulies, Naman Casas, Beau MacDonald and John Wilson



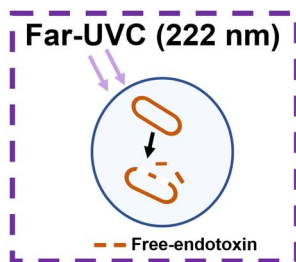
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### The synergistic role of sulfuric acid, ammonia and organics in particle formation over an agricultural land

Lubna Dada,<sup>\*</sup> Magdalena Okuljar, Jiali Shen, Miska Olin, Yusheng Wu, Laura Heimsch, Ilkka Herlin, Saara Kankaanrinta, Markus Lampimäki, Joni Kalliokoski, Rima Baalbaki, Annalea Lohila, Tuukka Petäjä, Miikka Dal Maso, Jonathan Duplissy, Veli-Matti Kerminen and Markku Kulmala<sup>\*</sup>

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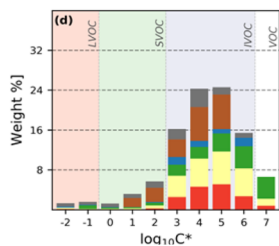
### Negligible increase in indoor endotoxin activity by 222 nm far-UVC illumination on bioaerosols

Zhancong Liang, Tim Yiu Cheung, Wing Lam Chan, Chee Kent Lim, Alvin. C. K. Lai, Patrick. K. H. Lee and Chak K. Chan<sup>\*</sup>

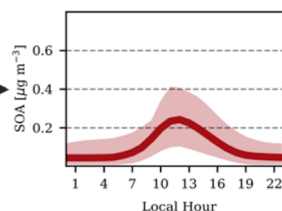
Negligible increase in indoor endotoxin risk

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### Asphalt-Related Emissions



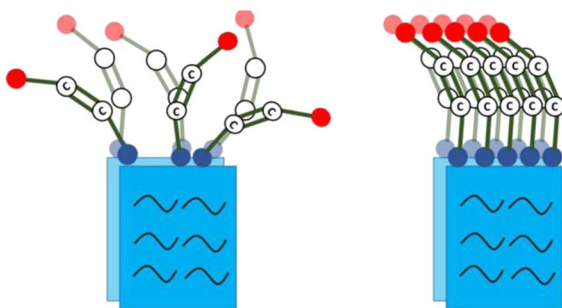
### Urban SOA



### Anthropogenic secondary organic aerosol and ozone production from asphalt-related emissions

Karl M. Seltzer,<sup>\*</sup> Venkatesh Rao, Havala O. T. Pye, Benjamin N. Murphy, Bryan K. Place, Peeyush Khare, Drew R. Gentner, Christine Allen, David Cooley, Rich Mason and Marc Houyoux

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### Surface functionality of sub- to full-monolayer organic coverage of water aerosols determined by molecular dynamics simulations

Aisling C. Stewart, Martin J. Paterson and Stuart J. Greaves<sup>\*</sup>

