

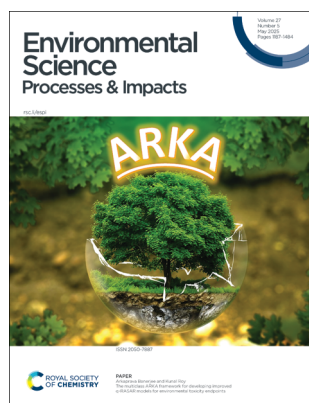
Environmental Science Processes & Impacts

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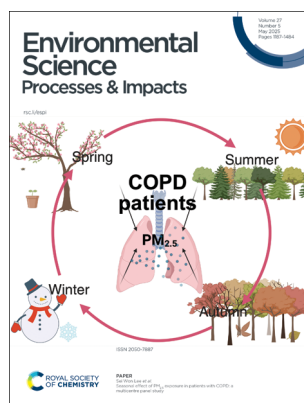
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Cover
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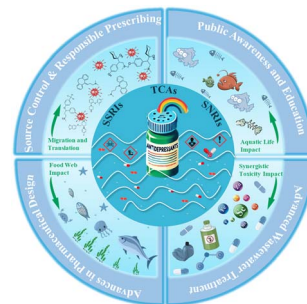
Inside cover
See Sei Won Lee *et al.*, pp. 1244–1252. Image reproduced by permission of Sei Won Lee from *Environ. Sci.: Processes Impacts*, 2025, 27, 1244.

CRITICAL REVIEW

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Environmental behavior, risks, and management of antidepressants in the aquatic environment

Yingying Liu, Jiapei Lv, Changsheng Guo, Xiaowei Jin, Depeng Zuo and Jian Xu*

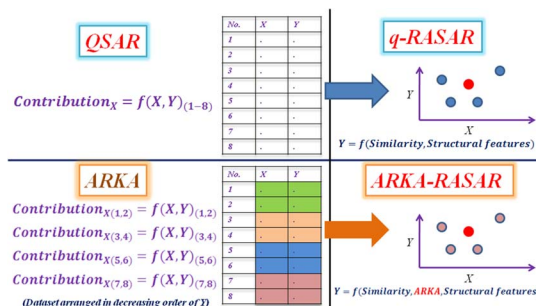


PAPERS

1229

The multiclass ARKA framework for developing improved q-RASAR models for environmental toxicity endpoints

Arkaprava Banerjee* and Kunal Roy*



Environmental Science: Atmospheres

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Fundamental questions
Elemental answers

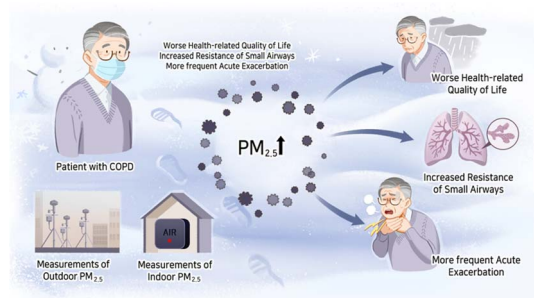


PAPERS

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Seasonal effect of PM_{2.5} exposure in patients with COPD: a multicentre panel study

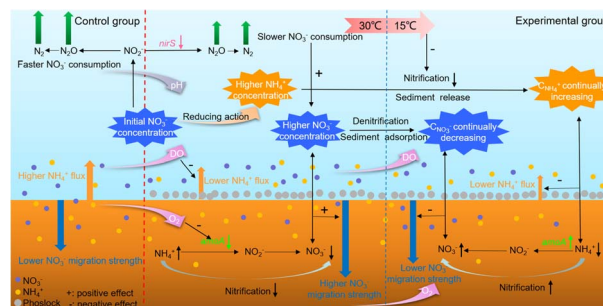
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Study on the mechanism of Phoslock's impact on nitrogen migration at the sediment–water interface

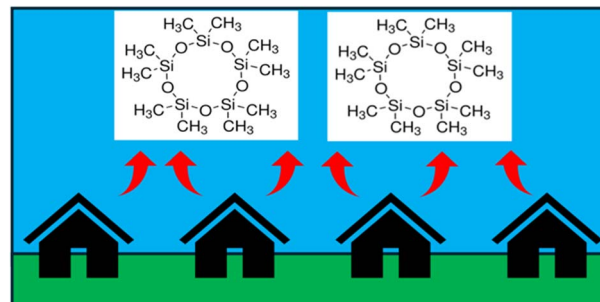
Penglong Wang, Jiehua Wang, Songwei Zhang, Jinyue Fan, Xiuling Bai,* Pingping Zhang, Zhiqiang Jiao, Bing Zhao and Xiubo Ren



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Quantifying ambient concentration and emission profile of D5-siloxane of a residential neighborhood in the Greater Houston area

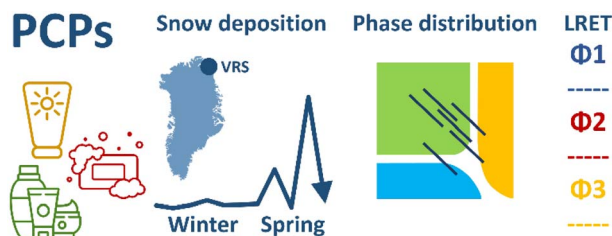
Kyle P. McCary, Sining Niu, Alana J. Doderio, Yeaseul Kim, Heewon Yim, Sahir Gagan, Karsten Baumann, Timothy B. Onasch, Raghu Betha, Qi Ying and Yue Zhang*



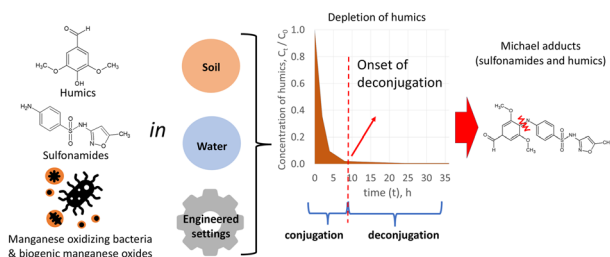
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Are ingredients of personal care products likely to undergo long-range transport to remote regions?

Marianna D'Amico,* Frank Wania, Knut Breivik, Henrik Skov, Andrea Spolaor, Lise Lotte Sørensen, Andrea Gambaro and Marco Vecchiato



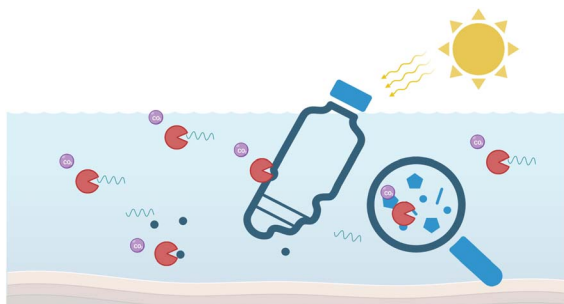
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Reversible transformations of sulfamethoxazole and its submoieties by manganese-oxidizing bacteria and biogenic manganese oxides in the presence of humic substances

Adam Sochacki,* Hana Šubrtová Salmonová, Sylwia Bajkacz, Ewa Felis, Lucie Schneider, Zdeněk Chval, Zuzana Vaňková, Martin Lexa, Michael Pohorelý, Philippe François-Xavier Corvini and Markéta Marečková

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Designing for degradation: the importance of considering biotic and abiotic polymer degradation

Omar Tantawi, Wontae Joo, Elijah E. Martin, Sarah H. M. Av-Ron, K'yal R. Bannister, Kristala L. J. Prather, Bradley D. Olsen and Desiree L. Plata*

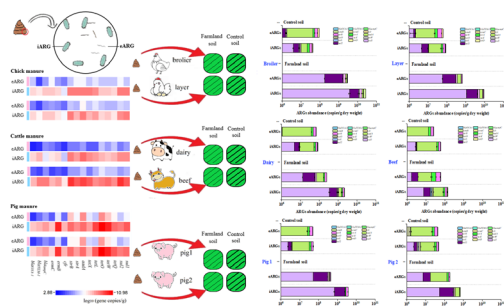
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Investigating the impact of climate change on PCB-153 exposure in Arctic seabirds with the nested exposure model

Lovise Pedersen Skogeng,* Pierre Blévin, Knut Breivik, Jan Ove Bustnes, Igor Eulaers, Kjetil Sagerup and Ingerd Sunde Krogseth

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Analysis of antibiotic resistance genes in livestock manure and receiving environment reveals non-negligible risk from extracellular genes

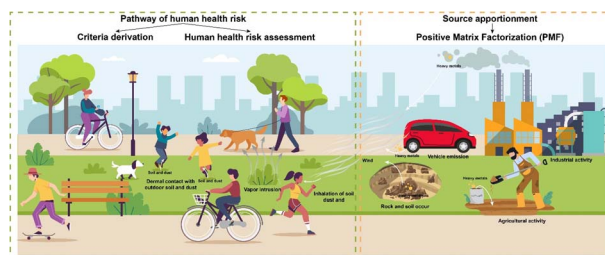
Rui Xin, Fengxia Yang,* Yuanye Zeng, Meiqi Zhang and Keqiang Zhang*



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Source apportionment, criteria derivation, and health risk assessment of heavy metals in urban green space soils

Zirui Meng, Qing Xue, Ziyi Wang, Limin Liang, Xijie Ji, Xueqiang Lu, Xunqiang Mo* and Mengxuan He*



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Survey of pathogens and human fecal markers in stormwater across a highly populated urban region

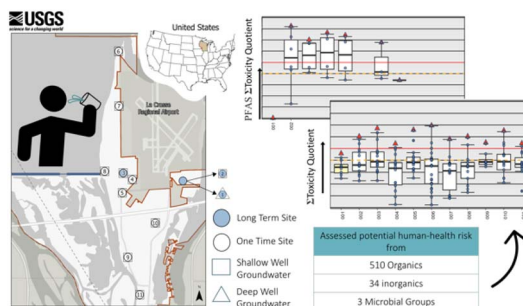
Joshua A. Steele,* Amity G. Zimmer-Faust, Thomas J. Clerkin, Adriana González-Fernández, Sarah A. Lowry, A. Denene Blackwood, Kayla Raygoza, Kylie Langlois, Alexandria B. Boehm, Rachel T. Noble, John F. Griffith and Kenneth C. Schiff



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Tapwater exposures, residential risk, and mitigation in a PFAS-impacted-groundwater community

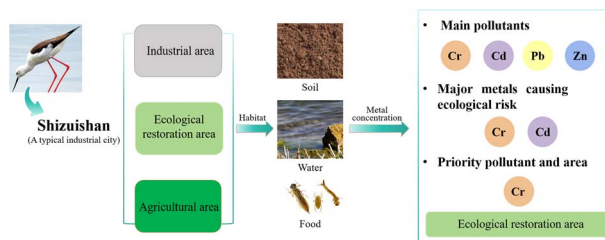
Paul M. Bradley,* Kristin M. Romanok, Kelly L. Smalling, Lee Donahue, Mark P. Gaikowski, Randy K. Hines, Sara E. Breitmeyer, Stephanie E. Gordon, Keith A. Loftin, Richard Blaine McCleskey, Shannon M. Meppelink and Molly L. Schreiner



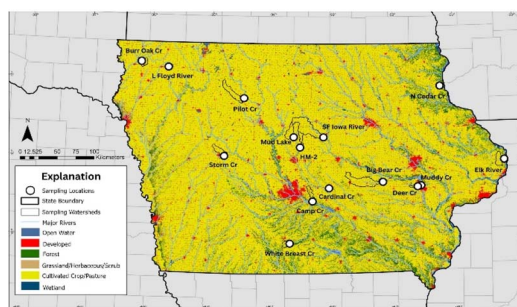
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Heavy metal exposure risk to black-winged stilt (*Himantopus himantopus*) in a typical industrial city in northwest of China

Jinhua Tian, Qin Li, Wenjing Li, Wenzhi Yang and Ying Yang*



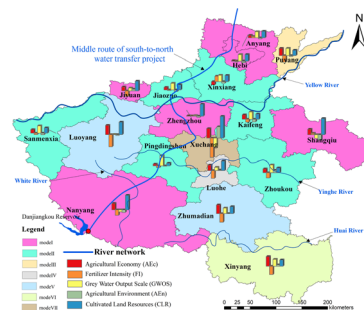
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Assessing microplastics, per- and polyfluoroalkyl substances (PFAS), and other contaminants of global concern in wadable agricultural streams in Iowa

Shannon M. Meppelink,^{*} Dana W. Kolpin,^{*} Gregory H. LeFevre,^{*} David M. Cwiertny, Carrie E. Givens, Lee Ann Green, Laura E. Hubbard, Luke R. Iwanowicz, Rachael F. Lane, Alyssa L. Mianeki, Padraic S. O'Shea, Clayton D. Raines, John W. Scott, Darrin A. Thompson, Michaelah C. Wilson and James L. Gray

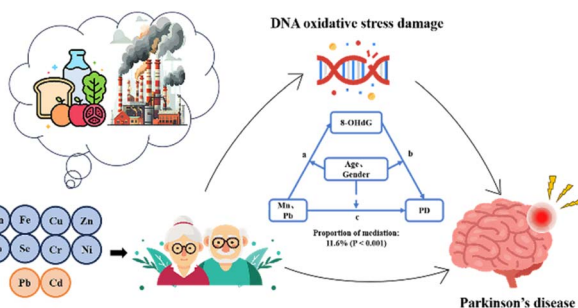
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Research on agricultural grey water footprint/efficiency and identification of influencing factors in Henan Province

Yanqi Zhao, Zhen Yang, Ying Yang,^{*} Xinxin Xue and Geng Cao

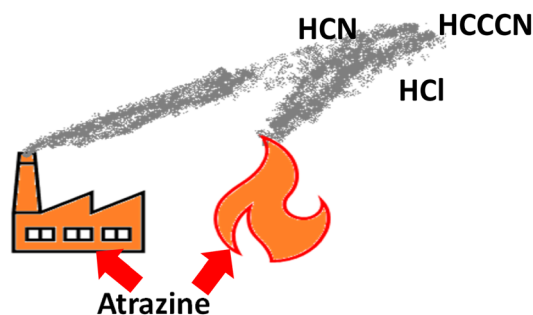
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Exploring the interactions of urinary metals and the mediating role of oxidative stress in Parkinson's disease risk: an epidemiological study in the elderly

Chiqun Shan, Quanzhi Zheng, Mengyan Li, Yiming Ge, Junye Bian, Zhihong Huang, Zhihui Guo, Yuxuan Jiang, Pan Xu, Shaoyou Lu^{*} and Haobo Chen^{*}

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Thermal decomposition of atrazine and its toxic products

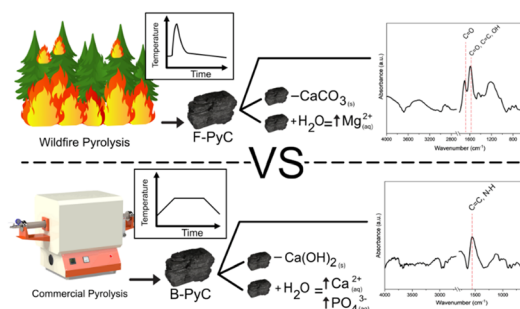
Nathan H. Weber, John C. Mackie, Justin Bolam, John A. Lucas, Michael Stockenhuber and Eric M. Kennedy^{*}



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Physicochemical differences between wildfire pyrogenic carbon and slow-pyrolysis biochar suggest variations in elemental transport potential

Katherine N. Snihur,^{*} Lingyi Tang, Kelly J. Rozanitis, Daniela Gutierrez-Rueda, Cody N. Lazowski, Daniels Kononovs, Logan R. Swarn, Murray K. Gingras, Janice P. L. Kenney, Shannon L. Flynn, Kurt O. Konhauser and Daniel S. Alessi



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Gaseous air pollution exposure and depression in middle-aged and elderly adults: evidence from a Chinese cohort

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