



海大要闻

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海洋环境与生态教育部重点实验室研究团队荣获环境领域顶级期刊ES&T最佳论文奖

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做学生成才的梯子——记L

本站讯 环境领域顶级期刊 *Environmental Science and Technology* (ES&T) 于日前公布了该期刊2020年度的13篇“最佳论文”(ES&T's Best Papers of 2020) 名单。由中国海洋大学海洋环境与生态教育部重点实验室、近海环境污染控制研究所博士后王潇、郑浩副教授为文章共同第一作者, 江南大学王震宇教授和国外合作者为共同通讯作者, 于2020年3月24日在ES&T发表的封面论文“Photodegradation Elevated the Toxicity of Polystyrene Microplastics to Grouper (*Epinephelus moara*) through Disrupting Hepatic Lipid Homeostasis”(光降解作用增强了微塑料对海洋生物云纹石斑鱼的毒性效应: 扰乱肝脏脂质代谢稳态) 荣获2020年度最佳论文奖(环境科学类第2名, 共4项)。

近海环境污染控制研究所长期聚焦于近海环境污染物的环境行为和控制技术研究, 针对于目前全球高度关注的微塑料污染的热点生态环境问题, 揭示了聚苯乙烯微塑料光降解的途径和机制, 定量评估了光降解产物纳米塑料颗粒和内源化学污染物的产率; 从生理代谢、细胞毒性和基因调控方面阐明了光降解的聚苯乙烯微塑料对海洋生物云纹石斑鱼的肝脏毒性机制。该研究首次揭示了微塑料光降解行为对其生物毒性效应的调控机制, 加深了对环境自然老化过程中微塑料的环境行为和生态风险影响的科学认识, 为微塑料的生态风险评估提供了重要的理论依据。

ES&T是美国化学学会 (ACS) 旗下环境化学排名第一的顶级期刊, 具有广泛的影响力。自2005年伊始, ES&T编委评选委员会和专家顾问团队从期刊当年发表的所有文章(1500篇左右) 中严格遴选出10余项最具影响力的研究成果, 评选为“最佳论文”, 以表彰其对环境科学与技术发展做出的卓越贡献。获奖论文名单分为四类: 环境科学、环境技术、环境政策和专题报道/综述文章。据统计, 自2005年颁布该奖项至今, 中国学者发表的文章获此奖项为25次, 其中环境科学方向仅有2次排名TOP1, 2次排名TOP2。该研究成果的成功入选充分体现了ES&T期刊及同领域专家学者对团队研究工作的高度认可。

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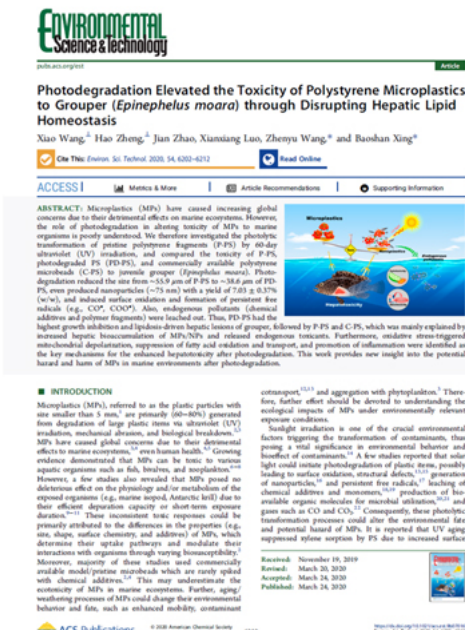
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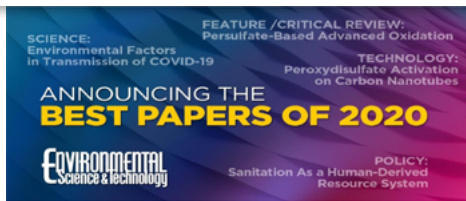
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Environmental Science & Technology

Julie Beth Zimmerman
Editor-in-Chief
Environmental Science and Technology

September 7th, 2021

Dear Dr. Wang and Dr. Xing

Re: <https://pubs.acs.org/doi/10.1021/acscet.9b07016>

CONGRATULATIONS! I'm delighted to inform you that your manuscript "Photodegradation Elevated the Toxicity of Polystyrene Microplastics to *Grouper (Epinephelus mookii)* through Disrupting Hepatic Lipid Homeostasis", published in *Environmental Science and Technology* in 2020, has been selected as the first runner up in the category "Best Environmental Science Article" in the 2020 *Environmental Science and Technology Best Paper Awards*. On behalf of the journal's editors, I would like to congratulate you on this outstanding accomplishment. Please do share this information with your co-authors.

We have announced the winners and runners up of our 2020 Best Paper Award today in an editorial in the 7th September 2021 issue of *ES&T* (<https://pubs.acs.org/doi/10.1021/acscet.1c05550>).

Once again, congratulations on your accomplishment and thank you for publishing your best work in *ES&T*.

Sincerely,

Julie Zimmerman
Editor-in-Chief
Environmental Science and Technology

ES&T's Best Papers of 2020

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On a reflection of how challenging the year 2020 was globally, it is testament to the commitment and dedication of the scientific research community around the world that *Environmental Science & Technology* (ES&T) continued to receive exceptional and outstanding quality research work during this period. In 2020, ES&T published approximately 1700 manuscripts, sharing novel and impactful research accomplishments across a broad and interdisciplinary range of environmental science and technology areas. The determination of our community to continue to research, innovate, and publish despite the many constraints is inspirational.

Each year, ES&T has the important and delightful task of picking the Best Papers published in the journal during the previous year from an outstanding selection, already determined as high quality by virtue of their publication in the journal. Nominations received from our distinguished Associate Editors are reviewed and ranked by our esteemed Editorial Advisory Board, with the review and ranking process expertly coordinated by Professor Patricia Holden (University of California, Santa Barbara, USA). From among the top-ranked papers, the Executive Editor Team then chooses the Best Paper winners in the categories of Environmental Science, Environmental Technology, Environmental Policy, and Feature/Critical Reviews. ES&T would like to thank this dedicated global team for their important contributions in selecting this year's Best Papers awards.

ES&T is proud to announce the following Best Paper winners, recognized for their unique and important contributions to the field of environmental science and technology. The papers showcase excellence, covering many different fields of environmental science from around the globe, from diverse nations, individuals, and perspectives. A hearty congratulations to the winners and also a thank you to all the ES&T authors whose important, high-quality, and far-reaching environmental research is published in the journal. We applaud your efforts toward understanding and developing the many tools we need to navigate the environmental challenges facing the modern world, ahead of meeting population and industrial growth and the environmental consequences this brings.

ENVIRONMENTAL SCIENCE

Top Paper. Guangbo Qu, Xiangdong Li, Lijiang Hu, and Guohui Jiang. An Imperative Need for Research on the Role of Environmental Factors in Transmission of Novel Coronavirus (COVID-19). *Environ. Sci. Technol.* 2020, 54 (7), pp 3730–3732. <https://pubs.acs.org/doi/10.1021/acscet.9b01102>.

First Runner-Up. Xiao Wang, Hui Zheng, Jun Zhao, Xiantang Luo, Zhenyu Wang, and Baoxian Xing. Photo-Regulation Elevated the Toxicity of Polystyrene Microplastics to Grouper (*Epinephelus mookii*) through Disrupting Hepatic Lipid Homeostasis. *Environ. Sci. Technol.* 2020, 54 (10), pp 6202–6212. <https://pubs.acs.org/doi/10.1021/acscet.9b07016>.

First Joint Second Runner-Up. Xiao Wu, Mengting Yang, Qingsong Zhu, Elizabeth D. Wagner, and Michael J. Plewa. Comparative Quantitative Toxicology and QSAR Modeling of the Halocarbonoxides Forcing Agents of Water Disinfection Byproduct Toxicity. *Environ. Sci. Technol.* 2020, 54 (14), pp 8909–8918. <https://pubs.acs.org/doi/10.1021/acscet.0c02035>.

Second Joint Second Runner-Up. Laura C. Nalund, Jacqueline R. Gomez, Alexander C. Brooks, David M. Warren, and Emily S. Bernhardt. Contaminant Subsidies to Riparian Food Webs in Appalachian Streams Impacted by Montanapop Removal Coal Mining. *Environ. Sci. Technol.* 2020, 54 (7), pp 3951–3959. <https://pubs.acs.org/doi/10.1021/acscet.9b06067>.

ENVIRONMENTAL TECHNOLOGY

Top Paper. Wei Ren, Liangliang Xing, Gong Niu, Hui Zhang, Xiangqiang Duan, and Shaohui Wang. Insights into the Electron-Transfer Regime of Peroxysulfate Activation on Carbon Nanotubes: The Role of Oxygen Functional Groups. *Environ. Sci. Technol.* 2020, 54 (2), pp 1267–1275. <https://pubs.acs.org/doi/10.1021/acscet.9b06026>.

First Runner-Up. Yanyan Guo, Zhenhan Chen, Yue Zhu, Teng Li, and Chun Min. New Insights into the Generation of Single Oxygen in the Metal-Free Peroxymonosulfate Activation Process: Important Role of Electron-Deficient Carbon Atoms. *Environ. Sci. Technol.* 2020, 54 (2), pp 1232–1241. <https://pubs.acs.org/doi/10.1021/acscet.9b06056>.

Second Runner-Up. Jiejing Liang, Mohammad Y. B. Zaidi, Samadhi Chery, Yong Li, Meng Guo, Bao Kang, Jimmy Yan, and Kang Liang. Metal-Organic Framework-Plant Nanohydrogels as Living Sensors for On-Site Environmental Pollutant Detection. *Environ. Sci. Technol.* 2020, 54 (7), pp 3951–3959. <https://pubs.acs.org/doi/10.1021/acscet.9b06067>.

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