



师资队伍

教授

您的当前位置: 首页>>师资队伍>>教授>>正文

教授

副教授

讲师

赵宗山

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赵宗山，男，博士，教授，博士生导师，青岛大学二层次特聘教授。中国环境科学学会环境化学专业委员会委员和中国毒理学会计算毒理专业委员会委员。曾获2018年国家自然科学奖二等奖（排名第四）。已发表和接收科研论文70余篇，其中第一和通讯作者SCI论文40余篇，论文SCI他引1600余次。主持和参与包括国家级科研项目10余项，以第一发明人申请国家发明专利5项，授权1项。

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1. 工作经历

2019-至今 青岛大学环境科学与工程学院 教授

2014-2019 中国科学院青岛生物能源与过程研究所 副研究员/研究员（自然科学）

2009-2014 中国海洋大学化学化工学院（海洋化学理论与工程技术教育部重点实验室） 讲师/副教授

2. 教育经历

2006.09-2009.06 中国科学院生态环境研究中心，环境科学，博士

2003.09-2006.06 山东大学化学化工学院，分析化学，硕士

1999.09-2003.06 山东大学化学化工学院，化学，本科

3. 研究领域

(1) 环境污染物的溯源、迁移转化和环境归宿研究

- (2) 环境中持久性有机污染物(POPs)和重金属的消减技术开发
- (3) 国家环境监测标准、技术和监测设备研发

4. 代表性科研项目

- (1) 国家自然科学基金面上基金, 21976185, 2020.01-2023.12
- (2) 国家自然科学基金面上基金, 21477138, 2015.01-2018.12
- (3) 国家自然科学基金青年基金, 21007062, 2011.01-2013.12
- (4) 中国科学院科技服务网络计划(STS计划重点项目)项目, 2019.01-2020.12
- (5) 国家重点研发计划项目子课题, 2016YFD0201200, 2016.01-2020.12

5. 代表性论文

(1) **Zhao Zongshan**; Cao Yali; Fan Ying; Yang Haili; Feng Xuwei; Li Li; Zhang Hailong; Xing Lei; Zhao Meixun*, *Ladderane records over the last century in the East China sea: Proxies for anammox and eutrophication changes*. *Water Research* 2019, 156, 297-304. (IF 7.051, 1区, Top期刊)

(2) Aifeng Liu, Jianbo Shi, Zhaoshuang Shen, Yongfeng Lin, Guangbo Qu, **Zongshan Zhao*** and Guibin Jiang. *Identification of Unknown Brominated Bisphenol S Congeners in Contaminated Soils as the Transformation Products of Tetrabromobisphenol S Derivatives*. *Environ. Sci. Technol.* 2018, 52, 10480–10489. (IF 6.653, 1区, Top期刊)

(3) **Zhao, Zongshan**; Li, Huijuan; Wang, Yawei; Li, Guoliang; Cao, Yali; Zeng, Lixi; Lan, Jing; Wang, Thanh; Jiang, Guibin, *Source and Migration of Short-Chain Chlorinated Paraffins in the Coastal East China Sea Using Multiproxies of Marine Organic Geochemistry*, *Environ. Sci. Technol.* 2013, 47(10):5013-5022. (IF 6.653, 1区, Top期刊)

(4) Tian, Yong; Shen, Hui-Yan; Wang, Qiang; Liu, Aifeng; Gao, Wei; Chen, Xuwei; Chen, Ming-Li; **Zhao, Zongshan***. *Online high temporal resolution measurement of atmospheric sulfate and sulfur trioxide with a light emitting diode and liquid core waveguide-based sensor*. *Analytical Chemistry*. 2018, 90 (13): 7843–7847. (IF 6.042, 1区, Top期刊)

(5) Yong Tian; Xiaomin Zhang; Huiyan Shen; Aifeng Liu; **Zongshan Zhao***; Mingli Chen; Xuwei Chen*. *High Time-Resolution Optical Sensor for Monitoring Atmospheric Nitrogen Dioxide*. *Analytical Chemistry*. 2017, 89: 13064–13068. (IF 6.042, 1区, Top期刊)

(6) Wei Gao, Yong Tian, Huan Liu, Xiao-Li Yuan, Aifeng Liu, Li Yuan, Yong-Liang Yu*, **Zongshan Zhao***, and Guibin Jiang, *Ultrasensitive Determination of Tetrabromobisphenol A by Covalent Organic Framework Based Solid Phase Microextraction Coupled with Constant Flow Desorption Ionization Mass Spectrometry*, *Analytical Chemistry*. 2018, 91(91), 772-775. (IF 6.042, 1区, Top期刊)

(7) Aifeng Liu, **Zongshan Zhao***, Guangbo Qu, Xiangfeng Liang, Jianbo Shi*, Guibin Jiang, *Identification of transformation/degradation products of tetrabromobisphenol A and its derivatives*, *Trends in Analytical Chemistry*, 2019, 111, 85-99. (IF 7.030, 1区, Top期刊)

(8) **Zongshan Zhao**, Jiaojiao Jia, Jiaokai Wang, Aifeng Liu, Jing Lan, Hailong Zhang, Meixun Zhao*. *Pollution levels of DDTs and their spatiotemporal trend from sediment records in the Southern Yellow Sea, China*, *Marine Pollution Bulletin*, 2018, 127:359-364. (IF 3.241, 1区, Top期刊)

- (9) Aifeng Liu, Jiaojiao Jia, Jing Lan, **Zongshan Zhao***, Peng Yao, Distribution, composition, and ecological risk of surface sedimental polychlorinated naphthalenes in the East China Sea, *Marine Pollution Bulletin*, 2018, 135:90–94. (IF 3.241, 1区, Top期刊)
- (10) Aifeng Liu; Yawei Wang; Mo Xian; **Zongshan Zhao***; Bin Zhao; Jinpeng Wang; Peng Yao. Characterization of polychlorinated biphenyl congeners in surface sediments of the Changjiang Estuary and adjacent shelf by high-resolution sampling and high-resolution mass spectrometry. *Marine Pollution Bulletin*. 2017, 124(1): 496-501. (IF 3.241, 1区, Top期刊)
- (11) Fan, Ying; Lan, Jing; **Zhao, Zongshan***; Zhao, Meixun, Sedimentary records of hydroxylated and methoxylated polybrominated diphenyl ethers in the southern Yellow Sea, *Marine Pollution Bulletin*, 2014, 84(1-2), 366-372. (IF 3.241, 1区, Top期刊)
- (12) Jing Lan, Jiaojiao Jia, Aifeng Liu, Zhuanni Yu, **Zongshan Zhao***, Pollution levels of banned and non-banned pesticides in surface sediments from the East China Sea, *Marine Pollution Bulletin*, 2019, 139, 332-338. (IF 3.241, 1区, Top期刊)
- (13) Aifeng Liu, **Zongshan Zhao***, Guangbo Qu, Zhaoshuang Shen, Jianbo Shi, Guibin Jiang. Transformation/degradation of tetrabromobisphenol A and its derivatives: A review of the metabolism and metabolites. *Environmental Pollution*. 2018, 243:1141-1153. (IF 4.358, Top期刊)
- (14) Fan, Ying; Huh, Chih-An; Lan, Jing; Zhao, Meixun; **Zhao, Zongshan***; Li, Guoliang; Sun, Jianteng; Jiang, Guibin, Major sources of MeO/OH-BDEs in the East China Sea elucidated from their records and phytoplankton biomarkers, *Environmental Pollution*, 2014, 192, 1-8. (IF 4.358, Top期刊)
- (15) Fan, Ying; Lan, Jing; Li, Huijuan; Cao, Yali; **Zhao, Zongshan***; Wang, Jiaokai; Zhao, Meixun; Jiang, Guibin, Use of lipid biomarkers for identification of regional sources and dechlorination characteristics of polychlorinated biphenyls in the East China Sea, *Science of the Total Environment*, 2014, 490, 766-775. (IF 4.610, Top期刊)
- (16) Fan, Ying; Lan, Jing; Li, Huijuan; Li, Guoliang; Cao, Yali; **Zhao, Zongshan***; Zhao, Meixun; Jiang, Guibin, Spatial distributions of methoxylated and hydroxylated polybrominated diphenyl ethers in the East China Sea A seaward increasing trend, *Chemosphere*, 2014, 114, 247-254. (IF 4.427, Top期刊)
- (17) Liu Huan, Gao Wei, Tian, Yong, Wang Yongmei, Liu Aifeng, Zhang Jianqing, Jiang Yongsheng, **Zhao Zongshan***; Cai Yaqi, Jiang Guibin, Thermal decomposition tandem mass spectrometry for rapid detection of tetrabromobisphenol A bis(allyl ether) in soils. *Talanta*, 2019, 200, 373-377. (IF 4.244)
- (18) Rongguang Shi; Jing Liang; **Zongshan Zhao***; Aifeng Liu; Yong Tian. An electrochemical bisphenol A sensor based on one step electrochemical reduction of cuprous oxide wrapped graphene oxide nanoparticles modified electrode. *Talanta*, 2017, 169:37-43 (IF 4.244)
- (19) Huan Liu, Wei Gao, Yong Tian*, Aifeng Liu, Zhenhua Wang, Yaqi Cai, **Zongshan Zhao***. Rapidly detecting tetrabromobisphenol A in soils and sediments by paper spray ionization mass spectrometry combined with isotopic internal standard. *Talanta*. 2019, 191: 272-276 (IF 4.244)
- (20) Yongmei Wang, Qiang Wang, **Zongshan Zhao***, Aifeng Liu, Yong Tian, Jianyuan Qin. Rapid qualitative and quantitative analysis of

chlortetracycline hydrochloride and tetracycline hydrochloride in environmental samples based on terahertz frequency-domain spectroscopy. Talanta. 2018, 190:284-291(IF 4.244)

(21) Liu, Aifeng, Liang Jing, Shi Rongguang, **Zhao Zongshan***, Tian, Yong. Ultrasensitive sensor based on nano-Cu/polyaniline/nickel foam for monitoring H₂O₂ in exhaled breath. *Journal of Breath Research. 2018, 12: 036001(IF 3.489)*

(22) Aifeng Liu; Zhaoshuang Shen; Yong Tian; Rongguang Shi; Yi Liu; **Zongshan Zhao***; Mo Xian. Thin-layer chromatography coupled with high performance liquid chromatography for determining tetrabromobisphenol A/S and their derivatives in soils. *Journal of Chromatography A*, 2017, 1526, 151-156. **(IF 3.716)**

(23) Aifeng Liu, Zhaoshuang Shen, Li Yuan, Mengmeng Xu, **Zongshan Zhao***, , Xiangfeng Liang, High performance thin-layer chromatography coupled with HPLC-DAD/HPLC-MS/MS for simultaneous determination of bisphenol A and 9 brominated analogs in biological samples, *Analytical and Bioanalytical Chemistry*, 2019,411(3),725-734. **(IF 3.307)**

(24) **Zhao, Zongshan;** Yang, Jinghe; Wu, Xia;et al., The fluorescence enhancement effect of the Tb-Gd-guanosine-5'-triphosphate-phen system and its analytical application, *Analytical and Bioanalytical Chemistry*, 2004, 380(1) ,104-107. **(IF 3.307)**

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