2018 年重點實驗室署名學術期刊論文

方向一 現有、新興和潛在的 **POPs** 的分析和毒理學研究	影響因子
1. Adsorption mechanisms of five bisphenol analogues on PVC microplastics. Pengfei Wu, Zongwei Cai, Hangbiao Jin, Yuanyuan Tang. *Sci Total Environ.* 2019 Feb 10;650(Pt 1):671-678. doi: 10.1016/j.scitotenv.2018.09.049. Epub 2018 Sep 5.	4.61
2. The association of repeated measurements of prenatal exposure to triclosan with fetal and early-childhood growth. Chuansha Wu, Jiufeng Li, Wei Xia, Yuanyuan Li, Bin Zhang, Aifen Zhou, Jie Hu, Chunhui Li, Hongzhi Zhao, Minmin Jiang, Chen Hu, Jiaqiang Liao, Wenqian Huo, Xi Chen, Bing Xu, Shi Lu, Zongwei Cai, Shunqing Xu. *Environment International* 2018, 120: 54–62.	7.297
3. Contamination and risk profiles of triclosan and triclocarban in sediments from a less urbanized region in China. Zhi-Feng Chen, Hong-Biao Wen, Xiaoxin Dai, Shi-Chao Yan, Hui Zhang, Yan-Yan Chen, Zhiyun Du, Guoguang Liu, Zongwei Cai. *Journal of Hazardous Materials*. 2018, *357*: 376-383.	6.434
4. The brominated flame retardant BDE 47 upregulates purine metabolism and mitochondrial respiration to promote adipocyte differentiation. Chunxue Yang, Chi-Ming Wong, Juntong Wei, Arthur C.K. Chung, Zongwei Cai. *Science of the Total Environment* 2018, 644, 1312–1322.	4.61
5. Liquid chromatography-mass spectrometry-based metabolomics and lipidomics reveal toxicological mechanisms of bisphenol F in breast cancer xenografts. Chao Zhao, Peisi Xie, Hailin Wang, Zongwei Cai. *Journal of Hazardous Materials*. 2018, *358*: 503-7.	6.434
6. Effects of sub-chronic exposure to atmospheric PM2.5 on fibrosis, inflammation, endoplasmic reticulum stress and apoptosis in the livers of rats. Ruijin Li, Mei Zhang, Ying Wang, Ken Kin Lam Yung, Ruijun Su, Zhuoyu Li, Liping Zhao, Chuan Dong, Zongwei Cai. *Toxicology Research* 2018, 7(2): 271-282. January 2018	1.89
7. Mass spectrometry-based techniques for the investigation on toxicological mechanisms of bisphenol F in breast cancer xenografts. Zongwei Cai, *Abstracts of papers of The American Chemical Society*. 2018, 255:143. Mar 2018.	N/A
8. PAHs and heavy metals in the surrounding soil of a cement plant Co-Processing hazardous waste. Chen Wang, Zhenzhou Yang, Yanhao Zhang, Zuotai Zhang, Zongwei Cai *Chemosphere* 2018, 210: 247-256. doi: 10.1016/j.chemosphere.2018.06.177.	4.427
9. Metabolism of bisphenol S in mice after oral administration. Yuanyuan Song, Peisi Xie, Zongwei Cai. *Rapid Communications in Mass Spectrometry* 2018 *32*, 6:495-502.	1.97
10. Mass spectrometry investigation of DNA adduct formation from bisphenol A quinone metabolite and MCF-7 cell DNA. Hongzhi Zhao, Juntong Wei, Li Xiang, Zongwei Cai, *Talanta.* 2018, 182, 583-589.	4.244
11. Metabolic profiling on the effect of 2,2',4,4'-tetrabromodiphenyl ether (BDE-47) in MCF-7 cells. Juntong Wei, Li Xiang, Zigao Yuan, Shangfu Li, Chunxue Yang, Hongxia Liu, Yuyang Jiang, Zongwei Cai, *Chemosphere*. 2018 192:297-304. doi: 10.1016/j.chemosphere.2017.10.170. Epub 2017 Oct 31.	4.427
12. Sources and transformation pathways for dichlorodiphenyltrichloroethane (DDT) and metabolites in soils from Northwest Fujian, China Huang, Huanfang; Zhang, Yuan; Chen, Wei; Chen, Wenwen; Yuen, Dave A.; Ding, Yang; Chen, Yingjie; Mao, Yao; Qi, Shihua, 2018 *Environmental Pollution* 235:560-570	4.358
13. Profiles, variability, and predictors of urinary benzotriazoles and benzothiazoles in pregnant women from Wuhan, China. Zhou Y, Liu H, Li J, Xu S, Li Y, Zhao H, Jin H, Liu W, Chung ACK, Hong Y, Sun X, Jiang Y, Zhang W, Fang J, Xia W, Cai Z. *Environ Int.* 2018 Dec;121(Pt 2):1279-1288. doi: 10.1016/j.envint.2018.10.050. Epub 2018 Oct 29.	7.297
14. Early-life exposure to endocrine disrupting chemicals associates with childhood obesity *Ann Pediatr Endocrinol Metab.* Yang C, Lee HK, Kong APS, Lim LL, Cai Z,	N/A

Chung ACK. 2018 Dec; 23(4):182-195. doi: 10.6065/apem.2018.23.4.182. Epub 2018 Dec 31.

15. Occurrences and Partitioning of Bisphenol Analogues in Blood H Jin#, J Zhu#, Z Chen, Y Hong*, Z Cai*. *Environmental Science & Technology*. 52(2): 812-820 (2018) 6.653

方向二 建立蛋白質組學和代謝組學的整合平臺研究與 **POPs** 有關的人類疾病

16. Nine phthalate metabolites in human urine for the comparison of health risk between population groups with different water consumptions. Jiufeng Li, Hongzhi Zhao, Wei Xia, Yanqiu Zhou, Shunqing Xu, Zongwei Cai. *Sci Total Environ.* 2019 Feb 1;649:1532-1540. doi: 10.1016/j.scitotenv.2018.08.294. Epub 2018 Aug 23. 4.61

17. Metabolomics studies on db/db diabetic mice in skeletal muscle reveal effective clearance of overloaded intermediates by exercise. Li Xiang, Hongsong Zhang, Juntong Wei, Xiao Yu Tian, Hemi Luan, Shangfu Li, Hongzhi Zhao, Guodong Cao, Arthur C. K. Chung, Chunxue Yang, Yu Huang, Zongwei Cai. *Anal Chim Acta.* 2018 Dec 11;1037:130-139. doi: 10.1016/j.aca.2017.11.082. Epub 2017 Dec 20. 5.123

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19. Fabrication of nanoscale graphitic carbon nitride/copper oxide hybrid composites coated solid-phase microextraction fibers coupled with gas chromatography for determination of polycyclic aromatic hydrocarbons. Yixin Yang, Peige Qin, Jing Zhang, Wenqi Li, Jinhua Zhu, Minghua Lu, Zongwei Cai. *J Chromatogr A.* 2018 Oct 5;1570:47-55. doi: 10.1016/j.chroma.2018.07.080. Epub 2018 Jul 29. 3.716

20. Investigation on Metabolism of Di(2-Ethylhexyl) Phthalate in Different Trimesters of Pregnant Women. Hongzhi Zhao, Jiufeng Li, Yanqiu Zhou, Lin Zhu, Yuanyuan Zheng, Wei Xia, Yuanyuan Li, Li Xiang, Wei Chen, Shunqing Xu, Zongwei Cai. *Environ. Sci. Technol.*, 2018, Accepted. 6.653

21. Urinary concentrations of phthalate metabolites associated with changes in clinical hemostatic and hematologic parameters in pregnant women. Minmin Jiang, Yuanyuan Li, Bin Zhang, Aifen Zhou, Yingshuang Zhu, Jiufeng Li, Hongzhi Zhao, Li Chen, Jie Hu, Chuansha Wu, Yang Peng, Jiaqiang Liao, Zhiguo Xi, Zongwei Cai, Xi Chen, Bing Xu, Wei Xia, Shunqing Xu. *Environment International* 2018, 120: 34–42. 7.297

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26. Serum exosomes mediate delivery of arginase 1 as a novel mechanism for endothelial dysfunction in diabetes. Huina Zhang, Jian Liu, Dan Qu, Li Wang, Chi Ming Wong, Chi-Wai Lau, Yuhong Huang, Yi Fan Wang, Huihui Huang, Yin Xia, Li Xiang, Zongwei Cai, Pingsheng Liu, Yongxiang Wei, Xiaoqiang Yao, Ronald Ching Wan Ma, Yu Huang. *PNAS* 2018, 115 (29) E6927-E6936. July 17, 2018. 9.504

27. Spexin Acts as Novel Regulator for Bile Acid Synthesis. Cheng-yuan Lin, Ling Zhao, Tao Huang, Lin Lu, Mahjabin Khan, Jie Liu, Linda L. D. Zhong, Zongwei Cai, Bao-min Fan, Anderson O. L. Wong, Zhao-xiang Bian. *Front Physiol.* 2018; *9*: 378. 3.394

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方向三 開發新的生物傳感和生物成像技術以應用于環境污染與人體健康的研究

38. Reduced carbon nanodots as a novel substrate for direct analysis of bisphenol analogs in surface assisted laser desorption/ionization time of flight mass spectrometry. Wenjing Lu, Ruijin Li, Shaomin Shuang, Chuan Dong, Zongwei Cai. *Talanta* 2018 Dec 1; 190:89-94. 4.244

39. Nitrogen and Sulfur Co-doped Carbon-Dot-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry Imaging for Profiling Bisphenol S Distribution in Mouse Tissues. Zian Lin , Jie Wu, Yongqiang Dong, Peisi Xie, Yanhao Zhang, Zongwei Cai. *Anal. Chem.*, 2018, *90* (18), pp 10872–10880 6.042

40. Rapid authentication of Pseudostellaria heterophylla (Taizishen) from different regions by Raman spectroscopy coupled with chemometric methods. Mei Wu, Lijuan 2.732

Chen, Xuemin Huang. Zhenzhu Zheng, Bin Qiu, Longhua Guo, Zhenyu Lin, Guonan Chen, Zongwei Cai. *Journal of Luminescence* 2018, 202 : 239-245.

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45. MALDI-MS Imaging Reveals Asymmetric Spatial Distribution of Lipid Metabolites from Bisphenol S-Induced Nephrotoxicity. Chao Zhao, Peisi Xie, Ting Yong, Hailin Wang, Arthur Chi Kong Chung, Zongwei Cai. *Anal Chem*. 2018. 90(5):3196-3204. 2018 Mar 6. 6.042

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其他研究方向

62. A photocatalytic degradation strategy of PPCPs by a heptazine-based CN organic polymer (OCN) under visible light. Qianxin Zhang, Ping Chen, Cuiwen Tan, Tiansheng Chen, Meihui Zhuo, Zhijie Xie, Fengliang Wang, Haijin Liu, Zongwei Cai, Guoguang Liu, Wenying Lv. *ENVIRONMENTAL SCIENCE-NANO*. 5(10):2325-36. 6.087

63. Dual role of coal fly ash in copper ion adsorption followed by thermal stabilization in a spinel solid solution. Pengfei Wu, Yuanyuan Tang, Zongwei Cai. *Rsc Advances* 2018, 8, 8805-8812. 2.936

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65. Assessing consumer trends and illegal activity by monitoring the online wildlife trade. Sung, Yik-Hei; Fong, Jonathan J. 2018 *Biological Conservation* 227: 219-225 4.661

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72. Automated inference of signaling interactions at cellular resolution for every cell cycle of embryogenesis. Long Chen#, Vincy Wing Sze Ho#, Ming-Kin Wong#, Xiaotai Huang#, Lu-yan Chan, Hon Chun Kaoru Ng, Xiaoliang Ren, Hong Yan & Zhongying Zhao* *Genetics*. 2018 Mar 22. pii: genetics.300820.2018. 4.075

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75. Genomic bases of recombination suppression in the hybrid between hermaphroditic Caenorhabditis briggsae and gonochoristic *C. nigoni*. Xiaoliang Ren#, Runsheng Li#, Xiaolin Wei#, Yu Bi, Vincy Wing Sze Ho, Qiutao Ding, Zhihong Zhang, Chia-Ling Hsieh, Amanda Young, Jianyang Zeng*, Xiao Liu*, Zhongying Zhao*. *Nucleic Acids Res.* 2018 Feb 16;46(3):1295-1307. 11.561