

Tian-Gang Luan

List of Publications by Year in descending order

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Version: 2024-02-01

85
papers

3,148
citations

136950

32
h-index

175258

52
g-index

85
all docs

85
docs citations

85
times ranked

3805
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Metabolomics analysis of the 3D L-02 cell cultures revealing the key role of metabolism of amino acids in ameliorating hepatotoxicity of perfluorooctanoic acid. <i>Science of the Total Environment</i> , 2022, 806, 150438. | 8.0 | 4 |
| 2 | Identification of suspended particulate matters as the hotspot of polycyclic aromatic hydrocarbon degradation-related bacteria and genes in the Pearl River Estuary using metagenomic approaches. <i>Chemosphere</i> , 2022, 286, 131668. | 8.2 | 14 |
| 3 | Characterization of the mercury-binding proteins in tuna and salmon sashimi: Implications for health risk of mercury in food. <i>Chemosphere</i> , 2021, 263, 128110. | 8.2 | 19 |
| 4 | Sample preparation and instrumental methods for illicit drugs in environmental and biological samples: A review. <i>Journal of Chromatography A</i> , 2021, 1640, 461961. | 3.7 | 37 |
| 5 | Comparative responses of cell growth and related extracellular polymeric substances in <i>Tetraselmis</i> sp. to nonylphenol, bisphenol A and 17 β -ethinylestradiol. <i>Environmental Pollution</i> , 2021, 274, 116605. | 7.5 | 16 |
| 6 | Non-targeted metabolomics of multiple human cells revealing differential toxic effects of perfluorooctanoic acid. <i>Journal of Hazardous Materials</i> , 2021, 409, 125017. | 12.4 | 24 |
| 7 | ¹³ C isotope-based metabolic flux analysis revealing cellular landscape of glucose metabolism in human liver cells exposed to perfluorooctanoic acid. <i>Science of the Total Environment</i> , 2021, 770, 145329. | 8.0 | 8 |
| 8 | Three-Dimensional Imaging of Whole-Body Zebrafish Revealed Lipid Disorders Associated with Niemann-Pick Disease Type C1. <i>Analytical Chemistry</i> , 2021, 93, 8178-8187. | 6.5 | 19 |
| 9 | Mapping the distribution of perfluoroalkyl substances in zebrafishes by liquid extraction surface analysis mass spectrometry. <i>Talanta</i> , 2021, 231, 122377. | 5.5 | 3 |
| 10 | Discovery of Potential Lipid Biomarkers for Human Colorectal Cancer by In-Capillary Extraction Nanoelectrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2021, 93, 13089-13098. | 6.5 | 15 |
| 11 | Experimental and theoretical studies into the hydroxyl radical mediated transformation of propylparaben to methylparaben in the presence of dissolved organic matter surrogate. <i>Water Research</i> , 2021, 204, 117623. | 11.3 | 6 |
| 12 | Effects of undissociated SiO ₂ and TiO ₂ nano-particles on molting of <i>Daphnia pulex</i> : Comparing with dissociated ZnO nano particles. <i>Ecotoxicology and Environmental Safety</i> , 2021, 222, 112491. | 6.0 | 16 |
| 13 | Occurrence, mass loads, and ecological risks of amphetamine-like substances in a rural area of South China. <i>Science of the Total Environment</i> , 2021, 797, 149058. | 8.0 | 5 |
| 14 | Enhanced aging of polystyrene microplastics in sediments under alternating anoxic-oxic conditions. <i>Water Research</i> , 2021, 207, 117782. | 11.3 | 43 |
| 15 | Multifunctional Graphene-Oxide-Reinforced Dissolvable Polymeric Microneedles for Transdermal Drug Delivery. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 352-360. | 8.0 | 74 |
| 16 | Recovery of subtropical coastal intertidal system prokaryotes from a destruction event and the role of extracellular polymeric substances in the presence of endocrine disrupting chemicals. <i>Environment International</i> , 2020, 144, 106023. | 10.0 | 9 |
| 17 | Lab-on-Membrane Platform Coupled with Paper Spray Ionization for Analysis of Prostate-Specific Antigen in Clinical Settings. <i>Analytical Chemistry</i> , 2020, 92, 13298-13304. | 6.5 | 18 |
| 18 | Determination of polybrominated diphenyl ethers and metabolites by single-drop microextraction and GC-MS/MS. <i>SN Applied Sciences</i> , 2020, 2, 1. | 2.9 | 2 |

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|----|--|------|-----------|
| 19 | Lipid analysis and lipidomics investigation by ambient mass spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 128, 115924. | 11.4 | 11 |
| 20 | Characteristics of chlorinated and brominated polycyclic aromatic hydrocarbons in the Pearl River Estuary. <i>Science of the Total Environment</i> , 2020, 739, 139774. | 8.0 | 16 |
| 21 | Identification and characterization of Gd-binding proteins in NIH-3T3 cells. <i>Talanta</i> , 2020, 219, 121281. | 5.5 | 10 |
| 22 | Quantitation of polymeric-microneedle-delivered HA15 in tissues using liquid chromatography-tandem mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 185, 113230. | 2.8 | 3 |
| 23 | Quantum chemical calculation to elucidate the biodegradation pathway of methylphenanthrene by green microalgae. <i>Water Research</i> , 2020, 173, 115598. | 11.3 | 6 |
| 24 | Fetal bovine serum attenuating perfluorooctanoic acid-inducing toxicity to multiple human cell lines via albumin binding. <i>Journal of Hazardous Materials</i> , 2020, 389, 122109. | 12.4 | 21 |
| 25 | Assessment of the potential ecological risk of residual endocrine-disrupting chemicals from wastewater treatment plants. <i>Science of the Total Environment</i> , 2020, 714, 136689. | 8.0 | 30 |
| 26 | Recent advances of ambient mass spectrometry imaging for biological tissues: A review. <i>Analytica Chimica Acta</i> , 2020, 1117, 74-88. | 5.4 | 46 |
| 27 | A simple and cost-effective approach to fabricate tunable length polymeric microneedle patches for controllable transdermal drug delivery. <i>RSC Advances</i> , 2020, 10, 15541-15546. | 3.6 | 19 |
| 28 | A microscale solid-phase microextraction probe for the <i>in situ</i> analysis of perfluoroalkyl substances and lipids in biological tissues using mass spectrometry. <i>Analyst</i> , 2019, 144, 5637-5645. | 3.5 | 18 |
| 29 | Dysbiosis of gut microbiota by dietary exposure of three graphene-family materials in zebrafish (<i>Danio rerio</i>). <i>Journal of Environmental Health</i> , 2019, 10, 1-10. | 7.5 | 51 |
| 30 | The development of a cell-based model for the assessment of carcinogenic potential upon long-term PM2.5 exposure. <i>Environment International</i> , 2019, 131, 104943. | 10.0 | 39 |
| 31 | Pyrene metabolites by bacterium enhancing cell division of green alga <i>Selenastrum capricornutum</i> . <i>Science of the Total Environment</i> , 2019, 689, 287-294. | 8.0 | 19 |
| 32 | Mercury methylation-related microbes and genes in the sediments of the Pearl River Estuary and the South China Sea. <i>Ecotoxicology and Environmental Safety</i> , 2019, 185, 109722. | 6.0 | 14 |
| 33 | Occurrence of antibiotic resistance genes in extracellular and intracellular DNA from sediments collected from two types of aquaculture farms. <i>Chemosphere</i> , 2019, 234, 520-527. | 8.2 | 50 |
| 34 | Bacterial resistance to lead: Chemical basis and environmental relevance. <i>Journal of Environmental Sciences</i> , 2019, 85, 46-55. | 6.1 | 15 |
| 35 | Coupling PaternÅ²-BÅ¼chi Reaction with Surface-Coated Probe Nanoelectrospray Ionization Mass Spectrometry for In Vivo and Microscale Profiling of Lipid Câ•C Location Isomers in Complex Biological Tissues. <i>Analytical Chemistry</i> , 2019, 91, 4592-4599. | 6.5 | 35 |
| 36 | Quantitative Proteomic Analysis to Understand the Mechanisms of Zinc Oxide Nanoparticle Toxicity to <i>Daphnia pulex</i> (Crustacea: Daphniidae): Comparing with Bulk Zinc Oxide and Zinc Salt. <i>Environmental Science & Technology</i> , 2019, 53, 5436-5444. | 10.0 | 32 |

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|----|--|------|-----------|
| 37 | Metagenomic characterization of antibiotic resistance genes in Antarctic soils. <i>Ecotoxicology and Environmental Safety</i> , 2019, 176, 300-308. | 6.0 | 58 |
| 38 | A Luminescent Probe for Highly Selective Cu ²⁺ Sensing Using a Lanthanide-Doped Metal Organic Framework with Large Pores. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 206-211. | 2.0 | 17 |
| 39 | A unique Pb-binding flagellin as an effective remediation tool for Pb contamination in aquatic environment. <i>Journal of Hazardous Materials</i> , 2019, 363, 34-40. | 12.4 | 28 |
| 40 | Natural Porphyrins Accelerating the Phototransformation of Benzo[a]pyrene in Water. <i>Environmental Science & Technology</i> , 2018, 52, 3634-3641. | 10.0 | 19 |
| 41 | Complex pollution of antibiotic resistance genes due to beta-lactam and aminoglycoside use in aquaculture farming. <i>Water Research</i> , 2018, 134, 200-208. | 11.3 | 111 |
| 42 | Overproduction of microbial extracellular polymeric substances in subtropical intertidal sediments in response to endocrine disrupting chemicals. <i>Science of the Total Environment</i> , 2018, 624, 673-682. | 8.0 | 18 |
| 43 | In situ derivatization and hollow fiber liquid phase microextraction to determine sulfonamides in water using UHPLC with fluorescence detection. <i>Journal of Separation Science</i> , 2018, 41, 1651-1662. | 2.5 | 29 |
| 44 | Surface-Modified Wooden-Tip Electrospray Ionization Mass Spectrometry for Enhanced Detection of Analytes in Complex Samples. <i>Analytical Chemistry</i> , 2018, 90, 1759-1766. | 6.5 | 58 |
| 45 | Biocompatible Surface-Coated Probe for <i>in Vivo</i> , <i>in Situ</i> , and Microscale Lipidomics of Small Biological Organisms and Cells Using Mass Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 6936-6944. | 6.5 | 61 |
| 46 | Transformation of aqueous sulfonamides under horseradish peroxidase and characterization of sulfur dioxide extrusion products from sulfadiazine. <i>Chemosphere</i> , 2018, 200, 164-172. | 8.2 | 33 |
| 47 | Comparative proteomics and codon substitution analysis reveal mechanisms of differential resistance to hypoxia in congeneric snails. <i>Journal of Proteomics</i> , 2018, 172, 36-48. | 2.4 | 9 |
| 48 | Transcriptional response of <i>Mycobacterium</i> sp. strain A1-PYR to multiple polycyclic aromatic hydrocarbon contaminations. <i>Environmental Pollution</i> , 2018, 243, 824-832. | 7.5 | 21 |
| 49 | Rapid and on-site analysis of amphetamine-type illicit drugs in whole blood and raw urine by slug-flow microextraction coupled with paper spray mass spectrometry. <i>Analytica Chimica Acta</i> , 2018, 1032, 75-82. | 5.4 | 32 |
| 50 | Single-cell analysis by ambient mass spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 90, 14-26. | 11.4 | 79 |
| 51 | Surface-coated wooden-tip electrospray ionization mass spectrometry for determination of trace fluoroquinolone and macrolide antibiotics in water. <i>Analytica Chimica Acta</i> , 2017, 954, 52-59. | 5.4 | 61 |
| 52 | Degradation pathways of 1-methylphenanthrene in bacterial <i>Sphingobium</i> sp. MP9-4 isolated from petroleum-contaminated soil. <i>Marine Pollution Bulletin</i> , 2017, 114, 926-933. | 5.0 | 26 |
| 53 | Comparison on the effects of water-borne and dietary-borne accumulated ZnO nanoparticles on <i>Daphnia magna</i> . <i>Chemosphere</i> , 2017, 189, 94-103. | 8.2 | 15 |
| 54 | Polycyclic aromatic hydrocarbons (PAHs) enrich their degrading genera and genes in human-impacted aquatic environments. <i>Environmental Pollution</i> , 2017, 230, 936-944. | 7.5 | 37 |

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|----|---|------|-----------|
| 55 | Effects of endocrine disrupting chemicals (EDCs) on bacterial communities in mangrove sediments. <i>Marine Pollution Bulletin</i> , 2017, 122, 122-128. | 5.0 | 23 |
| 56 | Fully automatic single-drop microextraction with one-step extraction and derivatization and its application for rapid analysis of hydroxylated polycyclic aromatic hydrocarbons in seawaters. <i>Talanta</i> , 2017, 164, 727-734. | 5.5 | 24 |
| 57 | Polycyclic aromatic hydrocarbons (PAHs) enriching antibiotic resistance genes (ARGs) in the soils. <i>Environmental Pollution</i> , 2017, 220, 1005-1013. | 7.5 | 117 |
| 58 | <i>Novosphingobium guangzhouense</i> sp. nov., with the ability to degrade 1-methylphenanthrene. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2017, 67, 489-497. | 1.7 | 20 |
| 59 | Metagenomic Analysis Revealing Antibiotic Resistance Genes (ARGs) and Their Genetic Compartments in the Tibetan Environment. <i>Environmental Science & Technology</i> , 2016, 50, 6670-6679. | 10.0 | 155 |
| 60 | Combined aggregation induced emission (AIE), photochromism and photoresponsive wettability in simple dichloro-substituted triphenylethylene derivatives. <i>Chemical Science</i> , 2016, 7, 5302-5306. | 7.4 | 95 |
| 61 | Monthly variation and vertical distribution of parent and alkyl polycyclic aromatic hydrocarbons in estuarine water column: Role of suspended particulate matter. <i>Environmental Pollution</i> , 2016, 216, 599-607. | 7.5 | 14 |
| 62 | Slug-flow microextraction coupled with paper spray mass spectrometry for rapid analysis of complex samples. <i>Analytica Chimica Acta</i> , 2016, 940, 143-149. | 5.4 | 29 |
| 63 | Coupling liquid-phase microextraction with paper spray for rapid analysis of malachite green, crystal violet and their metabolites in complex samples using mass spectrometry. <i>Analytical Methods</i> , 2016, 8, 6651-6656. | 2.7 | 25 |
| 64 | Coupling solid-phase microextraction with ambient mass spectrometry: Strategies and applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 85, 61-72. | 11.4 | 82 |
| 65 | Contributions of Abiotic and Biotic Processes to the Aerobic Removal of Phenolic Endocrine-Disrupting Chemicals in a Simulated Estuarine Aquatic Environment. <i>Environmental Science & Technology</i> , 2016, 50, 4324-4334. | 10.0 | 30 |
| 66 | Direct evidences on bacterial growth pattern regulating pyrene degradation pathway and genotypic dioxygenase expression. <i>Marine Pollution Bulletin</i> , 2016, 105, 73-80. | 5.0 | 27 |
| 67 | Chlorophyll catalyse the photo-transformation of carcinogenic benzo[a]pyrene in water. <i>Scientific Reports</i> , 2015, 5, 12776. | 3.3 | 35 |
| 68 | Characterizing the parent and alkyl polycyclic aromatic hydrocarbons in the Pearl River Estuary, Daya Bay and northern South China Sea: Influence of riverine input. <i>Environmental Pollution</i> , 2015, 199, 66-72. | 7.5 | 71 |
| 69 | Determination of 13 endocrine disrupting chemicals in sediments by gas chromatography-mass spectrometry using subcritical water extraction coupled with dispersed liquid-liquid microextraction and derivatization. <i>Analytica Chimica Acta</i> , 2015, 866, 41-47. | 5.4 | 36 |
| 70 | Characterizing the parent and oxygenated polycyclic aromatic hydrocarbons in mangrove sediments of Hong Kong. <i>Marine Pollution Bulletin</i> , 2015, 98, 335-340. | 5.0 | 17 |
| 71 | Simultaneous determination of polycyclic musks in blood and urine by solid supported liquid-liquid extraction and gas chromatography-tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015, 992, 96-102. | 2.3 | 15 |
| 72 | Surface-Coated Probe Nanoelectrospray Ionization Mass Spectrometry for Analysis of Target Compounds in Individual Small Organisms. <i>Analytical Chemistry</i> , 2015, 87, 9923-9930. | 6.5 | 71 |

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|----|---|------|-----------|
| 73 | Identification of mercury methylation product by tert-butyl compounds in aqueous solution under light irradiation. <i>Marine Pollution Bulletin</i> , 2015, 98, 40-46. | 5.0 | 8 |
| 74 | Genetic Basis of Differential Heat Resistance between Two Species of Congeneric Freshwater Snails: Insights from Quantitative Proteomics and Base Substitution Rate Analysis. <i>Journal of Proteome Research</i> , 2015, 14, 4296-4308. | 3.7 | 30 |
| 75 | Occurrences and distribution of sulfonamide and tetracycline resistance genes in the Yangtze River Estuary and nearby coastal area. <i>Marine Pollution Bulletin</i> , 2015, 100, 304-310. | 5.0 | 81 |
| 76 | Mass spectrometry-based lipidomics analysis using methyl tert-butyl ether extraction in human hepatocellular carcinoma tissues. <i>Analytical Methods</i> , 2015, 7, 8466-8471. | 2.7 | 4 |
| 77 | A comparative study of biodegradability of a carcinogenic aromatic amine (4,4'-Diaminodiphenylmethane) with OECD 301 test methods. <i>Ecotoxicology and Environmental Safety</i> , 2015, 111, 123-130. | 6.0 | 4 |
| 78 | Coupling Solid-Phase Microextraction with Ambient Mass Spectrometry Using Surface Coated Wooden-Tip Probe for Rapid Analysis of Ultra Trace Perfluorinated Compounds in Complex Samples. <i>Analytical Chemistry</i> , 2014, 86, 11159-11166. | 6.5 | 97 |
| 79 | Complex effects of two presumably antagonistic endocrine disrupting compounds on the goldfish <i>Carassius auratus</i> : A comprehensive study with multiple toxicological endpoints. <i>Aquatic Toxicology</i> , 2014, 155, 43-51. | 4.0 | 13 |
| 80 | Strategies for coupling solid-phase microextraction with mass spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 55, 55-67. | 11.4 | 94 |
| 81 | Occurrence and distribution of phthalate esters in riverine sediments from the Pearl River Delta region, South China. <i>Marine Pollution Bulletin</i> , 2014, 83, 358-365. | 5.0 | 91 |
| 82 | Application of fully automatic hollow fiber liquid phase microextraction to assess the distribution of organophosphate esters in the Pearl River Estuaries. <i>Science of the Total Environment</i> , 2014, 470-471, 263-269. | 8.0 | 88 |
| 83 | Effects of low molecular-weight organic acids and dehydrogenase activity in rhizosphere sediments of mangrove plants on phytoremediation of polycyclic aromatic hydrocarbons. <i>Chemosphere</i> , 2014, 99, 152-159. | 8.2 | 102 |
| 84 | Effects of metals on biosorption and biodegradation of mixed polycyclic aromatic hydrocarbons by a freshwater green alga <i>Selenastrum capricornutum</i> . <i>Bioresource Technology</i> , 2010, 101, 6950-6961. | 9.6 | 129 |
| 85 | Determination of hydroxy metabolites of polycyclic aromatic hydrocarbons by fully automated solid-phase microextraction derivatization and gas chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2007, 1173, 37-43. | 3.7 | 42 |