

Tian-Gang Luan

List of Publications by Year in descending order

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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	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
2	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
3	Polycyclic aromatic hydrocarbons (PAHs) enriching antibiotic resistance genes (ARGs) in the soils. <i>Environmental Pollution</i> , 2017, 220, 1005-1013.	7.5	117
4	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
5	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
6	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
7	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
8	Strategies for coupling solid-phase microextraction with mass spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 55, 55-67.	11.4	94
9	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
10	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
11	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
12	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
13	Single-cell analysis by ambient mass spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 90, 14-26.	11.4	79
14	Multifunctional Graphene-Oxide-Reinforced Dissolvable Polymeric Microneedles for Transdermal Drug Delivery. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 352-360.	8.0	74
15	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
16	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
17	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
18	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

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19	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
20	Metagenomic characterization of antibiotic resistance genes in Antarctic soils. <i>Ecotoxicology and Environmental Safety</i> , 2019, 176, 300-308.	6.0	58
21	Dysbiosis of gut microbiota by dietary exposure of three graphene-family materials in zebrafish (<i>Danio rerio</i>). <i>Environmental Science & Technology</i> , 2019, 53, 1078-1085.	7.5	51
22	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
23	Recent advances of ambient mass spectrometry imaging for biological tissues: A review. <i>Analytica Chimica Acta</i> , 2020, 1117, 74-88.	5.4	46
24	Enhanced aging of polystyrene microplastics in sediments under alternating anoxic-oxic conditions. <i>Water Research</i> , 2021, 207, 117782.	11.3	43
25	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
26	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
27	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
28	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
29	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
30	Chlorophyll catalyze the photo-transformation of carcinogenic benzo[a]pyrene in water. <i>Scientific Reports</i> , 2015, 5, 12776.	3.3	35
31	Coupling Patern-Büchi Reaction with Surface-Coated Probe Nano-electrospray Ionization Mass Spectrometry for In Vivo and Microscale Profiling of Lipid C-13 Location Isomers in Complex Biological Tissues. <i>Analytical Chemistry</i> , 2019, 91, 4592-4599.	6.5	35
32	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
33	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
34	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
35	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
36	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

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37	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
38	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
39	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
40	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
41	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
42	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
43	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
44	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
45	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
46	Effects of endocrine disrupting chemicals (EDCs) on bacterial communities in mangrove sediments. <i>Marine Pollution Bulletin</i> , 2017, 122, 122-128.	5.0	23
47	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
48	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
49	<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
50	Natural Porphyrins Accelerating the Phototransformation of Benzo[a]pyrene in Water. <i>Environmental Science & Technology</i> , 2018, 52, 3634-3641.	10.0	19
51	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
52	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
53	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
54	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

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55	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
56	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
57	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
58	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
59	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
60	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
61	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
62	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
63	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
64	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
65	Bacterial resistance to lead: Chemical basis and environmental relevance. <i>Journal of Environmental Sciences</i> , 2019, 85, 46-55.	6.1	15
66	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
67	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
68	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
69	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
70	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
71	Lipid analysis and lipidomics investigation by ambient mass spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 128, 115924.	11.4	11
72	Identification and characterization of Gd-binding proteins in NIH-3T3 cells. <i>Talanta</i> , 2020, 219, 121281.	5.5	10

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73	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
74	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
75	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
76	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
77	Quantum chemical calculation to elucidate the biodegradation pathway of methylphenanthrene by green microalgae. <i>Water Research</i> , 2020, 173, 115598.	11.3	6
78	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
79	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
80	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
81	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
82	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
83	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
84	Mapping the distribution of perfluoroalkyl substances in zebrafishes by liquid extraction surface analysis mass spectrometry. <i>Talanta</i> , 2021, 231, 122377.	5.5	3
85	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