Juan Liu

List of Publications by Year
in descending order

115 papers	4,429 citations	94433 37 h-index	128289 60 g-index
119 all docs	119 docs citations	119 times ranked	3690 citing authors

#	Article	IF	Citations
1	Allele-defined genome of the autopolyploid sugarcane Saccharum spontaneum L.. Nature Genetics, 2018, 50, 1565-1573.	21.4	463
2	Thallium pollution in China and removal technologies for waters: A review. Environment International, 2019, 126, 771-790.	10.0	180
3	Highly efficient removal of thallium in wastewater by MnFe2O4-biochar composite. Journal of Hazardous Materials, 2021, 401, 123311.	12.4	142
4	Thallium contamination in arable soils and vegetables around a steel plantâ€"A newly-found significant source of Tl pollution in South China. Environmental Pollution, 2017, 224, 445-453.	7.5	131
5	Thallium contamination in farmlands and common vegetables in a pyrite mining city and potential health risks. Environmental Pollution, 2019, 248, 906-915.	7.5	122
6	Emerging risks of toxic metal(loid)s in soil-vegetables influenced by steel-making activities and isotopic source apportionment. Environment International, 2021, 146, 106207.	10.0	105
7	Legacy of multiple heavy metal(loid)s contamination and ecological risks in farmland soils from a historical artisanal zinc smelting area. Science of the Total Environment, 2020, 720, 137541.	8.0	104
8	Geochemical transfer of cadmium in river sediments near a lead-zinc smelter. Ecotoxicology and Environmental Safety, 2020, 196, 110529.	6.0	82
9	Thallium transformation and partitioning during Pbâ€"Zn smelting and environmental implications. Environmental Pollution, 2016, 212, 77-89.	7.5	78
10	Mechanisms of U(VI) removal by biochar derived from Ficus microcarpa aerial root: A comparison between raw and modified biochar. Science of the Total Environment, 2019, 697, 134115.	8.0	78
11	Exploring the mechanisms of organic matter degradation and methane emission during sewage sludge composting with added vesuvianite: Insights into the prediction of microbial metabolic function and enzymatic activity. Bioresource Technology, 2019, 286, 121397.	9.6	76
12	Thallium isotopic fractionation in industrial process of pyrite smelting and environmental implications. Journal of Hazardous Materials, 2020, 384, 121378.	12.4	73
13	Temporal sedimentary record of thallium pollution in an urban lake: An emerging thallium pollution source from copper metallurgy. Chemosphere, 2020, 242, 125172.	8.2	73
14	Thallium contamination, health risk assessment and source apportionment in common vegetables. Science of the Total Environment, 2020, 703, 135547.	8.0	73
15	Emergent thallium exposure from uranium mill tailings. Journal of Hazardous Materials, 2021, 407, 124402.	12.4	71
16	Response of microbial communities and interactions to thallium in contaminated sediments near a pyrite mining area. Environmental Pollution, 2019, 248, 916-928.	7.5	70
17	Chiral Primary Amine Catalysis for Asymmetric Mannich Reactions of Aldehydes with Ketimines: Stereoselectivity and Reactivity. Angewandte Chemie - International Edition, 2017, 56, 12697-12701.	13.8	67
18	Cadmium isotopes as tracers in environmental studies: A review. Science of the Total Environment, 2020, 736, 139585.	8.0	66

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19	Discovery, semisynthesis, biological activities, and metabolism of ocotillol-type saponins. Journal of Ginseng Research, 2017, 41, 373-378.	5.7	60
20	The bracteatus pineapple genome and domestication of clonally propagated crops. Nature Genetics, 2019, 51, 1549-1558.	21.4	60
21	Sorption of thallium(I) onto geological materials: Influence of pH and humic matter. Chemosphere, 2011, 82, 866-871.	8.2	58
22	Hyperaccumulation and transport mechanism of thallium and arsenic in brake ferns (Pteris vittata L.): A case study from mining area. Journal of Hazardous Materials, 2020, 388, 121756.	12.4	58
23	Microbial insights into the biogeochemical features of thallium occurrence: A case study from polluted river sediments. Science of the Total Environment, 2020, 739, 139957.	8.0	58
24	Enhanced photocurrent production by the synergy of hematite nanowire-arrayed photoanode and bioengineered Shewanella oneidensis MR-1. Biosensors and Bioelectronics, 2017, 94, 227-234.	10.1	57
25	The mobility of thallium in sediments and source apportionment by lead isotopes. Chemosphere, 2019, 219, 864-874.	8.2	56
26	Aggregation Kinetics of Hematite Particles in the Presence of Outer Membrane Cytochrome OmcA of Shewanella oneidenesis MR-1. Environmental Science & Technology, 2016, 50, 11016-11024.	10.0	53
27	Fabrication and electrical characteristics of flash-sintered SiO2-doped ZnO-Bi2O3-MnO2 varistors. Journal of Advanced Ceramics, 2020, 9, 683-692.	17.4	53
28	Emerging Thallium Pollution in China and Source Tracing by Thallium Isotopes. Environmental Science & Technology, 2018, 52, 11977-11979.	10.0	52
29	Three-Dimensional Printing of Biodegradable Piperazine-Based Polyurethane-Urea Scaffolds with Enhanced Osteogenesis for Bone Regeneration. ACS Applied Materials & Interfaces, 2019, 11, 9415-9424.	8.0	51
30	Uranium re-adsorption on uranium mill tailings and environmental implications. Journal of Hazardous Materials, 2021, 416, 126153.	12.4	51
31	New insights into ball milling effects on MgAl-LDHs exfoliation on biochar support: A case study for cadmium adsorption. Journal of Hazardous Materials, 2021, 416, 126258.	12.4	46
32	Cadmium isotopic fractionation in lead-zinc smelting process and signatures in fluvial sediments. Journal of Hazardous Materials, 2021, 411, 125015.	12.4	45
33	Thallium dispersal and contamination in surface sediments from South China and its source identification. Environmental Pollution, 2016, 213, 878-887.	7.5	44
34	High contamination risks of thallium and associated metal(loid)s in fluvial sediments from a steel-making area and implications for environmental management. Journal of Environmental Management, 2019, 250, 109513.	7.8	43
35	Advances in the chemistry, pharmacological diversity, and metabolism of 20(R)-ginseng saponins. Journal of Ginseng Research, 2020, 44, 14-23.	5.7	42
36	Multifunctional magnetic MgMn-oxide composite for efficient purification of Cd2+ and paracetamol pollution: Synergetic effect and stability. Journal of Hazardous Materials, 2020, 388, 122078.	12.4	41

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37	Geochemical and U-Th isotopic insights on uranium enrichment in reservoir sediments. Journal of Hazardous Materials, 2021, 414, 125466.	12.4	40
38	Health risks of metal(loid)s in maize (Zea mays L.) in an artisanal zinc smelting zone and source fingerprinting by lead isotope. Science of the Total Environment, 2020, 742, 140321.	8.0	39
39	Critical insight and indication on particle size effects towards uranium release from uranium mill tailings: Geochemical and mineralogical aspects. Chemosphere, 2020, 250, 126315.	8.2	37
40	Microbial response and adaption to thallium contamination in soil profiles. Journal of Hazardous Materials, 2022, 423, 127080.	12.4	37
41	Effect of ionic radius on colossal permittivity properties of (A, Ta) co-doped TiO2 (A= alkaline-earth) Tj ETQq1 1 0.784314 rgBT /Overlock	4.8	36
42	Surface Water Contamination by Uranium Mining/Milling Activities in Northern Guangdong Province, China. Clean - Soil, Air, Water, 2012, 40, 1357-1363.	1.1	35
43	Provenance of uranium in a sediment core from a natural reservoir, South China: Application of Pb stable isotope analysis. Chemosphere, 2018, 193, 1172-1180.	8.2	35
44	Processing and characterizations of flash sintered ZnO-Bi2O3-MnO2 varistor ceramics under different electric fields. Journal of the European Ceramic Society, 2020, 40, 1330-1337.	5.7	35
45	A combined management scheme to simultaneously mitigate As and Cd concentrations in rice cultivated in contaminated paddy soil. Journal of Hazardous Materials, 2021, 416, 125837.	12.4	35
46	A Novel Roomâ€Temperature Multiferroic System of Hexagonal Lu_{1â^'}_xIn_xFeO₃. Advanced Functional Materials, 2018, 28, 1706062.	14.9	34
47	Primary and repetitive secondary somatic embryogenesis in Rosa hybrida â€˜Samanthaâ€™. Plant Cell, Tissue and Organ Culture, 2012, 109, 411-418.	2.3	33
48	Thallium Distribution in Sediments from the Pearl River Basin, China. Clean - Soil, Air, Water, 2010, 38, 909-915.	1.1	32
49	Adsorption of arsenic(V) on bone char: batch, column and modeling studies. Environmental Earth Sciences, 2014, 72, 2081-2090.	2.7	32
50	Geochemical fractionation of thallium in contaminated soils near a large-scale Hg-Tl mineralised area. Chemosphere, 2020, 239, 124775.	8.2	32
51	Enhancement of dielectric and non-ohmic properties of graded Co doped CaCu3Ti4O12 thin films. Journal of Alloys and Compounds, 2020, 816, 152582.	5.5	32
52	Quantitative isotopic fingerprinting of thallium associated with potentially toxic elements (PTEs) in fluvial sediment cores with multiple anthropogenic sources. Environmental Pollution, 2020, 266, 115252.	7.5	30
53	Papain-like cysteine proteases in Carica papaya: lineage-specific gene duplication and expansion. BMC Genomics, 2018, 19, 26.	2.8	28
54	Persistent thallium contamination in river sediments, source apportionment and environmental implications. Ecotoxicology and Environmental Safety, 2020, 202, 110874.	6.0	28

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55	The regulatory mechanism of Chryseobacterium sp. resistance mediated by montmorillonite upon cadmium stress. Chemosphere, 2020, 240, 124851.	8.2	27
56	Flash sintering preparation and electrical properties of ZnOâ€“Bi2O3-M (M = Cr2O3, MnO2 or Co2O3) varistor ceramics. Ceramics International, 2020, 46, 14913-14918.	4.8	27
57	Effects and mechanisms of mineral amendment on thallium mobility in highly contaminated soils. Journal of Environmental Management, 2020, 262, 110251.	7.8	27
58	SunUp and Sunset genomes revealed impact of particle bombardment mediated transformation and domestication history in papaya. Nature Genetics, 2022, 54, 715-724.	21.4	26
59	Beneficial influences of pelelith and dicyandiamide on gaseous emissions and the fungal community during sewage sludge composting. Environmental Science and Pollution Research, 2019, 26, 8928-8938.	5.3	25
60	Environmental exposure and flux of thallium by industrial activities utilizing thallium-bearing pyrite. Science China Earth Sciences, 2013, 56, 1502-1509.	5.2	24
61	Surface Sediment Contamination by Uranium Mining/Milling Activities in South China. Clean - Soil, Air, Water, 2015, 43, 414-420.	1.1	24
62	Ferroelectric and magnetic properties in (1â^'x)BiFeO₃â€“x(0.5CaTiO₃â€“0.5SmFeO₃) ceramics. Journal of the American Ceramic Society, 2017, 100, 4045-4057.	3.8	24
63	Effect of (Sr0.7Ca0.3)TiO3-substitution on structure, dielectric, ferroelectric, and magnetic properties of BiFeO3 ceramics. Journal of Applied Physics, 2016, 119, .	2.5	23
64	Colossal permittivity characteristics and mechanism of (Sr, Ta) co-doped TiO2 ceramics. Journal of Materials Science: Materials in Electronics, 2020, 31, 5205-5213.	2.2	22
65	Incorporating isosorbide as the chain extender improves mechanical properties of linear biodegradable polyurethanes as potential bone regeneration materials. RSC Advances, 2017, 7, 13886-13895.	3.6	20
66	Reversible Fe(<scp>ii</scp>) uptake/release by magnetite nanoparticles. Environmental Science: Nano, 2018, 5, 1545-1555.	4.3	20
67	Dissolution Behavior of Isolated and Aggregated Hematite Particles Revealed by in Situ Liquid Cell Transmission Electron Microscopy. Environmental Science & Technology, 2019, 53, 2416-2425.	10.0	20
68	Rapid masculinization and effects on the liver of female western mosquitofish (Gambusia affinis) by norethindrone. Chemosphere, 2019, 216, 94-102.	8.2	20
69	A current-controlled flash sintering processing leading to dense and fine-grained typical multi-element ZnO varistor ceramics. Journal of Alloys and Compounds, 2021, 876, 160124.	5.5	20
70	The role of cis-elements in the evolution of crassulacean acid metabolism photosynthesis. Horticulture Research, 2020, 7, 5.	6.3	19
71	Technologically elevated natural radioactivity and assessment of dose to workers around a granitic uranium deposit area, China. Journal of Radioanalytical and Nuclear Chemistry, 2016, 310, 733-741.	1.5	17
72	Quantification of smelter-derived contributions to thallium contamination in river sediments: Novel insights from thallium isotope evidence. Journal of Hazardous Materials, 2022, 424, 127594.	12.4	17

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73	Effect of tuning A/B substitutions on multiferroic characteristics of BiFeO3-based ternary system ceramics. Journal of Magnetism and Magnetic Materials, 2020, 510, 166928.	2.3	16
74	Stable isotope fractionation of thallium as novel evidence for its geochemical transfer during leadâ€'zinc smelting activities. Science of the Total Environment, 2022, 803, 150036.	8.0	16
75	Effect of electric field on the microstructure and electrical properties of (Inâ€‰+â€‰Ta) co-doped TiO2 colossal dielectric ceramics. Journal of Materials Science: Materials in Electronics, 2022, 33, 6283-6293.	2.2	16
76	Chiral Primary Amine Catalysis for Asymmetric Mannich Reactions of Aldehydes with Ketimines: Stereoselectivity and Reactivity. Angewandte Chemie, 2017, 129, 12871-12875.	2.0	15
77	Androgen-induced alterations in endometrial proteins crucial in recurrent miscarriages. Oncotarget, 2018, 9, 24627-24641.	1.8	15
78	Thallium isotopic compositions as tracers in environmental studies: A review. Environment International, 2022, 162, 107148.	10.0	15
79	Comparative characterization of two natural humic acids in the Pearl River Basin, China and their environmental implications. Journal of Environmental Sciences, 2010, 22, 1695-1702.	6.1	14
80	Structural effects on the catalytic activity of carbon-supported magnetite nanocomposites in heterogeneous Fenton-like reactions. RSC Advances, 2018, 8, 16193-16201.	3.6	14
81	Effect of transition metal element substitution on magnetoelectric properties of BiFeO3-BaTiO3 ceramics. Journal of Alloys and Compounds, 2021, 859, 158224.	5.5	14
82	Controllable low-temperature flash sintering and giant dielectric performance of (Zn, Ta) co-doped TiO2 ceramics. Ceramics International, 2022, 48, 24629-24637.	4.8	14
83	Synthesis and crystal structures of C24-epimeric 20(R)-ocotillol-type saponins. Acta Crystallographica Section C, Structural Chemistry, 2016, 72, 498-503.	0.5	13
84	Reproductive potential of mosquitofish is reduced by the masculinizing effect of a synthetic progesterone, gestodene: Evidence from morphology, courtship behaviour, ovary histology, sex hormones and gene expressions. Science of the Total Environment, 2021, 769, 144570.	8.0	13
85	Associations between prenatal multiple metal exposure and preterm birth: Comparison of four statistical models. Chemosphere, 2022, 289, 133015.	8.2	13
86	Singlemode-Multimode-Singlemode Optical Fiber Sensor for Accurate Blood Pressure Monitoring. Journal of Lightwave Technology, 2022, 40, 4443-4450.	4.6	13
87	Experimental and model studies on comparison of As(III and V) removal from synthetic acid mine drainage by bone char. Mineralogical Magazine, 2014, 78, 73-89.	1.4	12
88	Significantly enhanced ferroelectricity and magnetic properties in (Sr0.5Ca0.5)TiO3-modified BiFeO3 ceramics. Journal of Applied Physics, 2015, 117, 174101.	2.5	12
89	Mach-Zehnder Interferometer for High Temperature (1000 Â°C) Sensing Based on a Few-Mode Fiber. Photonic Sensors, 2021, 11, 341-349.	5.0	12
90	Sex biased expression of hormone related genes at early stage of sex differentiation in papaya flowers. Horticulture Research, 2021, 8, 147.	6.3	12

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91	Synergetic removal of thallium and antimony from wastewater with jacobsite-biochar-persulfate system. Environmental Pollution, 2022, 304, 119196.	7.5	12
92	Quick sulfide buffering in inner shelf sediments of the East China Sea impacted by eutrophication. Environmental Earth Sciences, 2014, 71, 465-473.	2.7	11
93	Preliminary results of spatial distribution of uranium and thorium in soil profiles near a uranium industrial site, Guangdong province, China. Nukleonika, 2016, 61, 367-371.	0.8	11
94	Norethindrone alters mating behaviors, ovary histology, hormone production and transcriptional expression of steroidogenic genes in zebrafish (Danio rerio). Ecotoxicology and Environmental Safety, 2020, 195, 110496.	6.0	11
95	Transcriptomic and physiological changes in western mosquitofish (Gambusia affinis) after exposure to norgestrel. Ecotoxicology and Environmental Safety, 2019, 171, 579-586.	6.0	10
96	Distribution and migration characteristics of dinitrotoluene sulfonates (DNTs) in typical TNT production sites: Effects and health risk assessment. Journal of Environmental Management, 2021, 287, 112342.	7.8	9
97	Synthesis and crystal structures of a 3-acetylated (20S,24S)-ocotillol-type saponin and its C-24 epimer. Acta Crystallographica Section C, Structural Chemistry, 2017, 73, 464-469.	0.5	8
98	Enantioselective synthesis of chiral Î±-alkynylated thiazolidones by tandem S-addition/acetalization of alkynyl imines. Organic and Biomolecular Chemistry, 2020, 18, 3117-3124.	2.8	8
99	Adsorption of thallium(I) on rutile nano-titanium dioxide and environmental implications. PeerJ, 2019, 7, e6820.	2.0	8
100	Effect of lncRNA MALAT1 on the Granulosa Cell Proliferation and Pregnancy Outcome in Patients With PCOS. Frontiers in Endocrinology, 2022, 13, 825431.	3.5	7
101	Two Kinds of Novel Multi-user Immersive Display Systems. , 2018, , .		6
102	GraphConvLSTM: Spatiotemporal Learning for Activity Recognition with Wearable Sensors. , 2019, , .		6
103	Structure, ferroelectric and magnetic characteristics of SmFeO3 and BaTiO3 co-modified BiFeO3 ceramics. Journal of Materials Science: Materials in Electronics, 2020, 31, 3479-3491.	2.2	6
104	Cross Regulation Between cGMP-dependent Protein Kinase and Akt in Vasodilatation of Porcine Pulmonary Artery. Journal of Cardiovascular Pharmacology, 2014, 64, 452-459.	1.9	5
105	Adsorption Force of Fibronectin: A Balance Regulator to Transmission of Cell Traction Force and Fluid Shear Stress. Biomacromolecules, 2021, 22, 3264-3273.	5.4	5
106	Dielectric, ferroelectric and magnetic properties of Bi(Mg,M)O3-modified (M=Hf, Ta) BiFeO3â€“BaTiO3 ceramics. Journal of Materials Science: Materials in Electronics, 2022, 33, 17174-17189.	2.2	5
107	Flash sintering preparation and colossal dielectric origin of (Al0.5Ta0.5)0.05Ti0.95O2 ceramics. Journal of Materials Science: Materials in Electronics, 2022, 33, 15802-15813.	2.2	5
108	Effects of the electric field on microstructure and electrical properties of ZnOâ€“Bi2O3â€“Co2O3 varistor by flash sintering. Journal of Materials Science: Materials in Electronics, 2022, 33, 17900-17911.	2.2	5

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109	Integrating disulfides into a polyethylenimine gene carrier selectively boosts significant transfection activity in lung tissue enabling robust IL-12 gene therapy against metastatic lung cancers. Materials Science and Engineering C, 2021, 128, 112358.	7.3	3
110	Simultaneous Electrochemical Detection of Co-Existing Dihydroxybenzene Isomers Using Porphyrin Zr Metal-Organic Frameworks/Î²-cyclodextrin/Pencil Graphite Electrode. IEEE Sensors Journal, 2022, 22, 2993-3000.	4.7	3
111	Associations of benzotriazoles and benzothiazoles with estrogens and androgens among pregnant women: A cohort study with repeated measurements. Science of the Total Environment, 2022, 838, 155998.	8.0	3
112	The vibration characterization of synthetic crystalline lead hydrogen arsenite chloride precipitates Pb2(HAsO3)Cl2-implications of solidification of As (III) and Pb (II). Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 117, 658-661.	3.9	2
113	Giant dielectric permittivity of Ca and Sb-co-doped TiO2 ceramics. Journal of Materials Science: Materials in Electronics, 2022, 33, 18389-18399.	2.2	2
114	The phenylalanine ammonia-lyase gene McPAL3: the key gene involved in the scopoletin accumulation of MorindaÂcitrifolia L.. Revista Brasileira De Botanica, 2021, 44, 663-670.	1.3	1
115	Laser pulse compression method to measure Brillouin gain in water. Journal of Modern Optics, 2015, 62, 877-882.	1.3	0