

Zhen Liu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

77 papers	927 citations	17 h-index	27 g-index
87 ext. papers	1,150 ext. citations	4.2 avg, IF	4.25 L-index

#	Paper	IF	Citations
77	Introduction and simulation of a small electro cyclone for collecting indoor pollen particles. <i>Advanced Powder Technology</i> , 2022 , 33, 103384	4.6	1
76	Decontamination of aniline and malathion on material surface by array cold atmospheric pressure plasma jet: Mechanism and decontamination pathways. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107383	6.8	0
75	Decontamination of 2-Chloroethyl ethyl sulfide on the surface by atmospheric pressure plasma jet. <i>Journal of Hazardous Materials</i> , 2022 , 424, 127536	12.8	0
74	Bifurcation and chaos analysis of nonlinear vibration in thin-walled components under thermal/mechanical coupling. <i>Archive of Applied Mechanics</i> , 2022 , 92, 1325	2.2	1
73	A novel salt-tolerant strain <i>Trichoderma atroviride</i> HN082102.1 isolated from marine habitat alleviates salt stress and diminishes cucumber root rot caused by <i>Fusarium oxysporum</i> .. <i>BMC Microbiology</i> , 2022 , 22, 67	4.5	0
72	Degradation of aniline in water with gaseous streamer corona plasma. <i>Royal Society Open Science</i> , 2021 , 8, 202314	3.3	1
71	Low Temperature Plasma Treatment of Rat Blood is Accompanied by Platelet Aggregation. <i>Plasma Chemistry and Plasma Processing</i> , 2021 , 41, 955	3.6	3
70	Target Tracking Based on Multiparameter Adaptive Adjustment for Autonomous Aerial Refueling. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-13	5.2	5
69	Real-time and visual detection of <i>Cercospora canescens</i> based on the <i>cytb</i> gene using loop-mediated isothermal amplification (LAMP). <i>Canadian Journal of Plant Pathology</i> , 2021 , 43, 551-558	1.6	0
68	Development and performance tests of an on-the-go detector of soil total nitrogen concentration based on near-infrared spectroscopy. <i>Precision Agriculture</i> , 2021 , 22, 1479-1500	5.6	1
67	Comparing medium pressure dielectric barrier discharge (DBD) plasmas and classic methods of surface cleaning/activation of pure Mg for biomedical applications. <i>Surface and Coatings Technology</i> , 2021 , 410, 126934	4.4	0
66	Identification of microRNA-like RNAs from <i>Trichoderma asperellum</i> DQ-1 during its interaction with tomato roots using bioinformatic analysis and high-throughput sequencing. <i>PLoS ONE</i> , 2021 , 16, e0254808	3.7	1
65	The Combination of a Biocontrol Agent 'SC012 and Hymexazol Reduces the Effective Fungicide Dose to Control Fusarium Wilt in Cowpea. <i>Journal of Fungi (Basel, Switzerland)</i> , 2021 , 7,	5.6	3
64	Enlarging Dynamic Strain Range in UWFBG Array-Based BOTDR Assisted With Polarization Signal. <i>IEEE Photonics Technology Letters</i> , 2021 , 33, 994-997	2.2	0
63	Synthesis and evaluation of stereoisomers of methylated catechin and epigallocatechin derivatives on modulating P-glycoprotein-mediated multidrug resistance in cancers. <i>European Journal of Medicinal Chemistry</i> , 2021 , 226, 113795	6.8	3
62	Maternal trichloroethylene exposure and metabolic gene polymorphisms may interact during fetal cardiovascular malformation. <i>Reproductive Toxicology</i> , 2021 , 106, 1-8	3.4	1
61	Association between congenital heart defects and maternal manganese and iron concentrations: a case-control study in China. <i>Environmental Science and Pollution Research</i> , 2021 , 29, 26950	5.1	2

60	Vision Sensor for Measuring Aerial Refueling Drogue Using Robust Method. <i>IEEE Sensors Journal</i> , 2021 , 21, 28037-28049	4	0
59	Upregulation of PDGF Mediates Robust Liver Regeneration after Nanosecond Pulsed Electric Field Ablation by Promoting the HGF/c-Met Pathway. <i>BioMed Research International</i> , 2020 , 2020, 3635787	3	1
58	Comparative study of different nitrogen-containing plasma modifications applied on 3D porous PCL scaffolds and 2D PCL films. <i>Applied Surface Science</i> , 2020 , 516, 146067	6.7	13
57	Potential effect of non-thermal plasma for the inhibition of scar formation: a preliminary report. <i>Scientific Reports</i> , 2020 , 10, 1064	4.9	9
56	Enantioselective synthesis of chiral alkynylated thiazolidones by tandem S-addition/acetalization of alkynyl imines. <i>Organic and Biomolecular Chemistry</i> , 2020 , 18, 3117-3124	3.9	3
55	Ultrastructural changes in hepatocellular carcinoma cells induced by exponential pulses of nanosecond duration delivered via a transmission line. <i>Bioelectrochemistry</i> , 2020 , 135, 107548	5.6	1
54	The degradation of PCDD/Fs in fly ash using dielectric barrier discharge in a lab-scale reactor. <i>Chemical Engineering Journal</i> , 2020 , 387, 124005	14.7	4
53	Blocking exposed PD-L1 elicited by nanosecond pulsed electric field reverses dysfunction of CD8 T cells in liver cancer. <i>Cancer Letters</i> , 2020 , 495, 1-11	9.9	3
52	Association between metal cobalt exposure and the risk of congenital heart defect occurrence in offspring: a multi-hospital case-control study. <i>Environmental Health and Preventive Medicine</i> , 2020 , 25, 38	4.2	2
51	Association between prepregnancy body mass index and risk of congenital heart defects in offspring: an ambispective observational study in China. <i>BMC Pregnancy and Childbirth</i> , 2020 , 20, 444	3.2	1
50	PAC Interaction Inspection Using Real-Time Contact Point Tracking. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019 , 68, 4051-4064	5.2	13
49	Performance comparison between micro and electro micro cyclone. <i>Journal of Electrostatics</i> , 2019 , 101, 103368	1.7	1
48	High maternal selenium levels are associated with increased risk of congenital heart defects in the offspring. <i>Prenatal Diagnosis</i> , 2019 , 39, 1107-1114	3.2	1
47	Metal nickel exposure increase the risk of congenital heart defects occurrence in offspring: A case-control study in China. <i>Medicine (United States)</i> , 2019 , 98, e15352	1.8	11
46	Automatic Fault Detection of Multiple Targets in Railway Maintenance Based on Time-Scale Normalization. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2018 , 67, 849-865	5.2	19
45	Pulsed cold plasma-induced blood coagulation and its pilot application in stanching bleeding during rat hepatectomy. <i>Plasma Science and Technology</i> , 2018 , 20, 044005	1.5	7
44	The effects of lead and aluminum exposure on congenital heart disease and the mechanism of oxidative stress. <i>Reproductive Toxicology</i> , 2018 , 81, 93-98	3.4	22
43	Luminescence flash and temperature determination of the bubble generated by underwater pulsed discharge. <i>Applied Physics Letters</i> , 2017 , 110, 034101	3.4	13

42	Saponin fraction isolated from <i>Conyza blinii</i> H.L. demonstrates strong anti-cancer activity that is due to its NF- κ B inhibition. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 483, 779-785	3.4	19
41	Porous silver coating fiber for rapidly screening organotin compounds by solid phase microextraction coupled with surface enhanced Raman spectroscopy. <i>RSC Advances</i> , 2017 , 7, 3117-3124	3.7	15
40	Enantioselective Michael Addition of Photogenerated o-Quinodimethanes to Enones Catalyzed by Chiral Amino Acid Esters. <i>Organic Letters</i> , 2017 , 19, 2322-2325	6.2	21
39	Evaluation of the anti-cancer activity of the triterpenoidal saponin fraction isolated from the traditional Chinese medicine <i>Conyza blinii</i> H. L. <i>RSC Advances</i> , 2017 , 7, 3408-3412	3.7	14
38	Electrostatic-driven solid phase microextraction coupled with surface enhanced Raman spectroscopy for rapid analysis of pentachlorophenol. <i>Analytical Methods</i> , 2017 , 9, 459-464	3.2	11
37	Inhibition of lung cancer in diethylnitrosamine-induced mice by <i>Rhizoma paridis</i> saponins. <i>Molecular Carcinogenesis</i> , 2017 , 56, 1405-1413	5	16
36	High reliable and robust ultrathin-layer gold coating porous silver substrate via galvanic-free deposition for solid phase microextraction coupled with surface enhanced Raman spectroscopy. <i>Analytica Chimica Acta</i> , 2017 , 994, 56-64	6.6	13
35	Calibration of Binocular Vision Sensors Based on Unknown-Sized Elliptical Stripe Images. <i>Sensors</i> , 2017 , 17,	3.8	3
34	A synergistic antitumor effect of polyphyllin I and formosanin C on hepatocarcinoma cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016 , 26, 4970-4975	2.9	20
33	Inhibition of urethane-induced lung carcinogenesis in mice by a <i>Rhizoma paridis</i> saponin involved EGFR/PI3K/Akt pathway. <i>RSC Advances</i> , 2016 , 6, 92330-92334	3.7	10
32	<i>Escherichia Coli</i> Inactivation in Water Using Pulsed Discharge. <i>IEEE Transactions on Plasma Science</i> , 2016 , 44, 938-943	1.3	18
31	On-site calibration method for outdoor binocular stereo vision sensors. <i>Optics and Lasers in Engineering</i> , 2016 , 86, 75-82	4.6	11
30	Experimental Study of the Electric Pulse-Width Effect on the Acoustic Pulse of a Plasma Sparker. <i>IEEE Journal of Oceanic Engineering</i> , 2016 , 41, 724-730	3.3	8
29	A Microsecond-Pulsed Cold Plasma Jet for Medical Application. <i>Plasma Medicine</i> , 2016 , 6, 179-191	1.1	4
28	Curcumin alleviated the toxic reaction of <i>Rhizoma Paridis</i> saponins in a 45-day subchronic toxicological assessment of rats. <i>Environmental Toxicology</i> , 2016 , 31, 1935-1943	4.2	2
27	Rapid Disinfection Performance of a Touchable Pulsed SDBD Nonthermal Plasma. <i>IEEE Transactions on Plasma Science</i> , 2016 , 44, 2667-2672	1.3	2
26	Antioxidant and Antitumor Activities of the Extracts from Chinese Yam (<i>Dioscorea oppositifolia</i> Thunb.) Flesh and Peel and the Effective Compounds. <i>Journal of Food Science</i> , 2016 , 81, H1553-64	3.4	46
25	Metabolic regulatory network alterations reveal different therapeutic effects of cisplatin and <i>Rhizoma paridis</i> saponins in Lewis pulmonary adenoma mice. <i>RSC Advances</i> , 2016 , 6, 115029-115038	3.7	11

24	Revealing the role of oxidation state in interaction between nitro/amino-derived particulate matter and blood proteins. <i>Scientific Reports</i> , 2016 , 6, 25909	4.9	3
23	Paris Saponin II induced apoptosis via activation of autophagy in human lung cancer cells. <i>Chemico-Biological Interactions</i> , 2016 , 253, 125-33	5	16
22	Curcumin-cyclodextrin complexes enhanced the anti-cancer effects of curcumin. <i>Environmental Toxicology and Pharmacology</i> , 2016 , 48, 31-38	5.8	59
21	Degradation of Aqueous Rhodamine B With Gaseous Streamer Corona Plasma. <i>IEEE Transactions on Plasma Science</i> , 2015 , 43, 828-835	1.3	8
20	Copper(II)-Catalyzed Kinetic Resolution of N-Sulfonylaziridines with Indoles: Efficient Construction of Pyrroloindolines. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10088-91	16.4	79
19	The Plasma-Containing Bubble Behavior Under Pulsed Discharge of Different Polarities. <i>IEEE Transactions on Plasma Science</i> , 2015 , 43, 567-571	1.3	7
18	Characteristics of back corona discharge in a honeycomb catalyst and its application for treatment of volatile organic compounds. <i>Environmental Science & Technology</i> , 2015 , 49, 6831-7	10.3	51
17	Turmeric enhancing anti-tumor effect of Rhizoma paridis saponins by influencing their metabolic profiling in tumors of H22 hepatocarcinoma mice. <i>Pathology Research and Practice</i> , 2015 , 211, 948-54	3.4	8
16	Inhibition of pulmonary adenoma in diethylnitrosamine-induced rats by Rhizoma paridis saponins. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2015 , 154, 62-7	5.1	12
15	The Influence of Water Characteristics on Plasma-Containing Bubble Dynamics. <i>IEEE Transactions on Plasma Science</i> , 2015 , 43, 3256-3259	1.3	10
14	A comparison study of toluene removal by two-stage DBD-catalyst systems loading with MnO(x), CeMnO(x), and CoMnO(x). <i>Environmental Science and Pollution Research</i> , 2015 , 22, 19240-50	5.1	19
13	Maternal lead exposure and risk of congenital heart defects occurrence in offspring. <i>Reproductive Toxicology</i> , 2015 , 51, 1-6	3.4	30
12	Fundamentals and Environmental Applications of Non-thermal Plasmas: Multi-pollutants Emission Control from Coal-Fired Flue Gas. <i>Plasma Chemistry and Plasma Processing</i> , 2014 , 34, 579-603	3.6	32
11	Toluene Decomposition by a Two-stage Hybrid Plasma Catalyst System in Dry Air. <i>IEEE Transactions on Plasma Science</i> , 2014 , 42, 3529-3538	1.3	16
10	Removal of dilute VOCs in air by post-plasma catalysis over Ag-based composite oxide catalysts. <i>Catalysis Today</i> , 2013 , 211, 39-43	5.3	68
9	Aerosol formation from styrene removal with an AC/DC streamer corona plasma system in air. <i>Chemical Engineering Journal</i> , 2013 , 232, 527-533	14.7	29
8	Water disinfection by pulsed atmospheric air plasma along water surface. <i>AIChE Journal</i> , 2013 , 59, 1458-1467	3.67	13
7	Distributed load balancing allocation of virtual machine in cloud data center 2012 ,		3

6	Characteristics of Styrene Removal With an AC/DC Streamer Corona Plasma System. <i>IEEE Transactions on Plasma Science</i> , 2011 , 39, 1482-1488	1,3	17
5	Plasma-Generated Multibubbles in Water and Their Dynamics. <i>IEEE Transactions on Plasma Science</i> , 2011 , 39, 2656-2657	1,3	2
4	Live virtual machine migration based on improved pre-copy approach 2010 ,		41
3	Molecular dynamics simulations and MM-PBSA calculations of the lectin from snowdrop (<i>Galanthus nivalis</i>). <i>Journal of Molecular Modeling</i> , 2009 , 15, 1501-7	2	8
2	Feasibility Analysis on Division of Flow Units Using Time Lapse Seismic Data. <i>Chinese Journal of Geophysics</i> , 2007 , 50, 526-532		2
1	Dominance rules for single machine schedule with sequence dependent setup and due date. <i>Journal of Control Theory and Applications</i> , 2005 , 3, 364-370		1