

# Zhen Liu

## List of Publications by Citations

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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.

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

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 77 | Copper(II)-Catalyzed Kinetic Resolution of N-Sulfonylaziridines with Indoles: Efficient Construction of Pyrroloindolines. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 10088-91                                 | 16.4 | 79        |
| 76 | Removal of dilute VOCs in air by post-plasma catalysis over Ag-based composite oxide catalysts. <i>Catalysis Today</i> , <b>2013</b> , 211, 39-43   | 5.3  | 68        |
| 75 | Curcumin-cyclodextrin complexes enhanced the anti-cancer effects of curcumin. <i>Environmental Toxicology and Pharmacology</i> , <b>2016</b> , 48, 31-38  | 5.8  | 59        |
| 74 | Characteristics of back corona discharge in a honeycomb catalyst and its application for treatment of volatile organic compounds. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 6831-7                              | 10.3 | 51        |
| 73 | Antioxidant and Antitumor Activities of the Extracts from Chinese Yam ( <i>Dioscorea opposita</i> Thunb.) Flesh and Peel and the Effective Compounds. <i>Journal of Food Science</i> , <b>2016</b> , 81, H1553-64                       | 3.4  | 46        |
| 72 | Live virtual machine migration based on improved pre-copy approach <b>2010</b> ,  |      | 41        |
| 71 | Fundamentals and Environmental Applications of Non-thermal Plasmas: Multi-pollutants Emission Control from Coal-Fired Flue Gas. <i>Plasma Chemistry and Plasma Processing</i> , <b>2014</b> , 34, 579-603                               | 3.6  | 32        |
| 70 | Maternal lead exposure and risk of congenital heart defects occurrence in offspring. <i>Reproductive Toxicology</i> , <b>2015</b> , 51, 1-6   | 3.4  | 30        |
| 69 | Aerosol Formation from styrene removal with an AC/DC streamer corona plasma system in air. <i>Chemical Engineering Journal</i> , <b>2013</b> , 232, 527-533   | 14.7 | 29        |
| 68 | The effects of lead and aluminum exposure on congenital heart disease and the mechanism of oxidative stress. <i>Reproductive Toxicology</i> , <b>2018</b> , 81, 93-98   | 3.4  | 22        |
| 67 | Enantioselective Michael Addition of Photogenerated o-Quinodimethanes to Enones Catalyzed by Chiral Amino Acid Esters. <i>Organic Letters</i> , <b>2017</b> , 19, 2322-2325   | 6.2  | 21        |
| 66 | A synergistic antitumor effect of polyphyllin I and formosanin C on hepatocarcinoma cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2016</b> , 26, 4970-4975  | 2.9  | 20        |
| 65 | Saponin fraction isolated from <i>Conyza blinii</i> H.L. demonstrates strong anti-cancer activity that is due to its NF- $\kappa$ B inhibition. <i>Biochemical and Biophysical Research Communications</i> , <b>2017</b> , 483, 779-785 | 3.4  | 19        |
| 64 | 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> , <b>2015</b> , 22, 19240-50                                   | 5.1  | 19        |
| 63 | Automatic Fault Detection of Multiple Targets in Railway Maintenance Based on Time-Scale Normalization. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2018</b> , 67, 849-865   | 5.2  | 19        |
| 62 | Escherichia Coli Inactivation in Water Using Pulsed Discharge. <i>IEEE Transactions on Plasma Science</i> , <b>2016</b> , 44, 938-943   | 1.3  | 18        |
| 61 | Characteristics of Styrene Removal With an AC/DC Streamer Corona Plasma System. <i>IEEE Transactions on Plasma Science</i> , <b>2011</b> , 39, 1482-1488  | 1.3  | 17        |

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|----|---|------|----|
| 60 | Inhibition of lung cancer in diethylnitrosamine-induced mice by Rhizoma paridis saponins. <i>Molecular Carcinogenesis</i> , <b>2017</b> , 56, 1405-1413   | 5    | 16 |
| 59 | Toluene Decomposition by a Two-stage Hybrid Plasma Catalyst System in Dry Air. <i>IEEE Transactions on Plasma Science</i> , <b>2014</b> , 42, 3529-3538   | 1.3  | 16 |
| 58 | Paris Saponin II induced apoptosis via activation of autophagy in human lung cancer cells. <i>Chemico-Biological Interactions</i> , <b>2016</b> , 253, 125-33   | 5    | 16 |
| 57 | Porous silver coating fiber for rapidly screening organotin compounds by solid phase microextraction coupled with surface enhanced Raman spectroscopy. <i>RSC Advances</i> , <b>2017</b> , 7, 3117-3124   | 3.7  | 15 |
| 56 | Evaluation of the anti-cancer activity of the triterpenoidal saponin fraction isolated from the traditional Chinese medicine Conyza blinii H. LQ.. <i>RSC Advances</i> , <b>2017</b> , 7, 3408-3412   | 3.7  | 14 |
| 55 | Luminescence flash and temperature determination of the bubble generated by underwater pulsed discharge. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 034101   | 3.4  | 13 |
| 54 | 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> , <b>2017</b> , 994, 56-64 | 6.6  | 13 |
| 53 | PAC Interaction Inspection Using Real-Time Contact Point Tracking. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2019</b> , 68, 4051-4064  | 5.2  | 13 |
| 52 | Comparative study of different nitrogen-containing plasma modifications applied on 3D porous PCL scaffolds and 2D PCL films. <i>Applied Surface Science</i> , <b>2020</b> , 516, 146067   | 6.7  | 13 |
| 51 | Water disinfection by pulsed atmospheric air plasma along water surface. <i>AIChE Journal</i> , <b>2013</b> , 59, 1458-1467   | 3.67 | 13 |
| 50 | Inhibition of pulmonary adenoma in diethylnitrosamine-induced rats by Rhizoma paridis saponins. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>2015</b> , 154, 62-7  | 5.1  | 12 |
| 49 | Electrostatic-driven solid phase microextraction coupled with surface enhanced Raman spectroscopy for rapid analysis of pentachlorophenol. <i>Analytical Methods</i> , <b>2017</b> , 9, 459-464   | 3.2  | 11 |
| 48 | On-site calibration method for outdoor binocular stereo vision sensors. <i>Optics and Lasers in Engineering</i> , <b>2016</b> , 86, 75-82   | 4.6  | 11 |
| 47 | Metabolic regulatory network alterations reveal different therapeutic effects of cisplatin and Rhizoma paridis saponins in Lewis pulmonary adenoma mice. <i>RSC Advances</i> , <b>2016</b> , 6, 115029-115038   | 3.7  | 11 |
| 46 | Metal nickel exposure increase the risk of congenital heart defects occurrence in offspring: A case-control study in China. <i>Medicine (United States)</i> , <b>2019</b> , 98, e15352  | 1.8  | 11 |
| 45 | The Influence of Water Characteristics on Plasma-Containing Bubble Dynamics. <i>IEEE Transactions on Plasma Science</i> , <b>2015</b> , 43, 3256-3259   | 1.3  | 10 |
| 44 | Inhibition of urethane-induced lung carcinogenesis in mice by a Rhizoma paridis saponin involved EGFR/PI3K/Akt pathway. <i>RSC Advances</i> , <b>2016</b> , 6, 92330-92334  | 3.7  | 10 |
| 43 | Potential effect of non-thermal plasma for the inhibition of scar formation: a preliminary report. <i>Scientific Reports</i> , <b>2020</b> , 10, 1064   | 4.9  | 9  |

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|----|---|------|---|
| 42 | Degradation of Aqueous Rhodamine B With Gaseous Streamer Corona Plasma. <i>IEEE Transactions on Plasma Science</i> , <b>2015</b> , 43, 828-835  | 1.3  | 8 |
| 41 | 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> , <b>2015</b> , 211, 948-54                                 | 3.4  | 8 |
| 40 | Experimental Study of the Electric Pulse-Width Effect on the Acoustic Pulse of a Plasma Sparker. <i>IEEE Journal of Oceanic Engineering</i> , <b>2016</b> , 41, 724-730   | 3.3  | 8 |
| 39 | Molecular dynamics simulations and MM-PBSA calculations of the lectin from snowdrop ( <i>Galanthus nivalis</i> ). <i>Journal of Molecular Modeling</i> , <b>2009</b> , 15, 1501-7   | 2    | 8 |
| 38 | The Plasma-Containing Bubble Behavior Under Pulsed Discharge of Different Polarities. <i>IEEE Transactions on Plasma Science</i> , <b>2015</b> , 43, 567-571  | 1.3  | 7 |
| 37 | Pulsed cold plasma-induced blood coagulation and its pilot application in stanching bleeding during rat hepatectomy. <i>Plasma Science and Technology</i> , <b>2018</b> , 20, 044005  | 1.5  | 7 |
| 36 | Target Tracking Based on Multiparameter Adaptive Adjustment for Autonomous Aerial Refueling. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-13   | 5.2  | 5 |
| 35 | The degradation of PCDD/Fs in fly ash using dielectric barrier discharge in a lab-scale reactor. <i>Chemical Engineering Journal</i> , <b>2020</b> , 387, 124005  | 14.7 | 4 |
| 34 | A Microsecond-Pulsed Cold Plasma Jet for Medical Application. <i>Plasma Medicine</i> , <b>2016</b> , 6, 179-191   | 1.1  | 4 |
| 33 | Enantioselective synthesis of chiral alkynylated thiazolidones by tandem S-addition/acetalization of alkynyl imines. <i>Organic and Biomolecular Chemistry</i> , <b>2020</b> , 18, 3117-3124  | 3.9  | 3 |
| 32 | Calibration of Binocular Vision Sensors Based on Unknown-Sized Elliptical Stripe Images. <i>Sensors</i> , <b>2017</b> , 17,   | 3.8  | 3 |
| 31 | Distributed load balancing allocation of virtual machine in cloud data center <b>2012</b> ,   |      | 3 |
| 30 | Blocking exposed PD-L1 elicited by nanosecond pulsed electric field reverses dysfunction of CD8 T cells in liver cancer. <i>Cancer Letters</i> , <b>2020</b> , 495, 1-11  | 9.9  | 3 |
| 29 | Low Temperature Plasma Treatment of Rat Blood is Accompanied by Platelet Aggregation. <i>Plasma Chemistry and Plasma Processing</i> , <b>2021</b> , 41, 955   | 3.6  | 3 |
| 28 | Revealing the role of oxidation state in interaction between nitro/amino-derived particulate matter and blood proteins. <i>Scientific Reports</i> , <b>2016</b> , 6, 25909  | 4.9  | 3 |
| 27 | 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> , <b>2021</b> , 7,   | 5.6  | 3 |
| 26 | 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> , <b>2021</b> , 226, 113795 | 6.8  | 3 |
| 25 | Plasma-Generated Multibubbles in Water and Their Dynamics. <i>IEEE Transactions on Plasma Science</i> , <b>2011</b> , 39, 2656-2657   | 1.3  | 2 |

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|----|---|-----|---|
| 24 | Feasibility Analysis on Division of Flow Units Using Time Lapse Seismic Data. <i>Chinese Journal of Geophysics</i> , <b>2007</b> , 50, 526-532  |     | 2 |
| 23 | 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> , <b>2020</b> , 25, 38          | 4.2 | 2 |
| 22 | Curcumin alleviated the toxic reaction of Rhizoma Paridis saponins in a 45-day subchronic toxicological assessment of rats. <i>Environmental Toxicology</i> , <b>2016</b> , 31, 1935-1943   | 4.2 | 2 |
| 21 | Rapid Disinfection Performance of a Touchable Pulsed SDBD Nonthermal Plasma. <i>IEEE Transactions on Plasma Science</i> , <b>2016</b> , 44, 2667-2672   | 1.3 | 2 |
| 20 | Association between congenital heart defects and maternal manganese and iron concentrations: a case-control study in China. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 29, 26950                           | 5.1 | 2 |
| 19 | 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> , <b>2020</b> , 2020, 3635787                      | 3   | 1 |
| 18 | Performance comparison between micro and electro micro cyclone. <i>Journal of Electrostatics</i> , <b>2019</b> , 101, 103368  | 1.7 | 1 |
| 17 | High maternal selenium levels are associated with increased risk of congenital heart defects in the offspring. <i>Prenatal Diagnosis</i> , <b>2019</b> , 39, 1107-1114  | 3.2 | 1 |
| 16 | Dominance rules for single machine schedule with sequence dependent setup and due date. <i>Journal of Control Theory and Applications</i> , <b>2005</b> , 3, 364-370  |     | 1 |
| 15 | Introduction and simulation of a small electro cyclone for collecting indoor pollen particles. <i>Advanced Powder Technology</i> , <b>2022</b> , 33, 103384   | 4.6 | 1 |
| 14 | Ultrastructural changes in hepatocellular carcinoma cells induced by exponential pulses of nanosecond duration delivered via a transmission line. <i>Bioelectrochemistry</i> , <b>2020</b> , 135, 107548                            | 5.6 | 1 |
| 13 | 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> , <b>2020</b> , 20, 444                       | 3.2 | 1 |
| 12 | Degradation of aniline in water with gaseous streamer corona plasma. <i>Royal Society Open Science</i> , <b>2021</b> , 8, 202314  | 3.3 | 1 |
| 11 | Development and performance tests of an on-the-go detector of soil total nitrogen concentration based on near-infrared spectroscopy. <i>Precision Agriculture</i> , <b>2021</b> , 22, 1479-1500                                     | 5.6 | 1 |
| 10 | 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> , <b>2021</b> , 16, e0254808     | 3.7 | 1 |
| 9  | Maternal trichloroethylene exposure and metabolic gene polymorphisms may interact during fetal cardiovascular malformation. <i>Reproductive Toxicology</i> , <b>2021</b> , 106, 1-8   | 3.4 | 1 |
| 8  | Bifurcation and chaos analysis of nonlinear vibration in thin-walled components under thermal-mechanical coupling. <i>Archive of Applied Mechanics</i> , <b>2022</b> , 92, 1325   | 2.2 | 1 |
| 7  | 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> , <b>2022</b> , 10, 107383 | 6.8 | 0 |

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| 6 | Decontamination of 2-Chloroethyl ethyl sulfide on the surface by atmospheric pressure plasma jet. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 424, 127536  | 12.8 | ○ |
| 5 | Real-time and visual detection of <i>Cercospora canescens</i> based on the cytb gene using loop-mediated isothermal amplification (LAMP). <i>Canadian Journal of Plant Pathology</i> , <b>2021</b> , 43, 551-558                                 | 1.6  | ○ |
| 4 | 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> , <b>2021</b> , 410, 126934               | 4.4  | ○ |
| 3 | Enlarging Dynamic Strain Range in UWFBG Array-Based EOTDR Assisted With Polarization Signal. <i>IEEE Photonics Technology Letters</i> , <b>2021</b> , 33, 994-997  | 2.2  | ○ |
| 2 | 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> , <b>2022</b> , 22, 67 | 4.5  | ○ |
| 1 | Vision Sensor for Measuring Aerial Refueling Drogue Using Robust Method. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 28037-28049   | 4    | ○ |