

Sijie Lin

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.

109 papers	9,172 citations	45 h-index	95 g-index
115 ext. papers	10,411 ext. citations	10.2 avg, IF	5.95 L-index

#	Paper	IF	Citations
109	Facile fabrication of ZnO decorated ZnFe-layered double hydroxides @ biochar nanocomposites for synergistic photodegradation of tetracycline under visible light. <i>Chemical Engineering Journal</i> , 2022 , 434, 134772	14.7	3
108	Advancements in a Zebrafish Model for Toxicity Assessment of Nanomaterials 2022 , 95-140		
107	MXene aerogel-based phase change film for synergistic thermal management inspired by antifreeze beetles. <i>Cell Reports Physical Science</i> , 2022 , 100815	6.1	3
106	Constructing novel graphitic carbon nitride-based nanocomposites - From the perspective of material dimensions and interfacial characteristics.. <i>Chemosphere</i> , 2022 , 302, 134889	8.4	2
105	Dynamic Protein Corona of Gold Nanoparticles with an Evolving Morphology. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 58238-58251	9.5	3
104	Synthesis of sponge-like TiO2 with surface-phase junctions for enhanced visible-light photocatalytic performance. <i>Chinese Chemical Letters</i> , 2021 , 32, 1823-1826	8.1	14
103	Nanotoxicology and nanomedicine: The Yin and Yang of nano-bio interactions for the new decade. <i>Nano Today</i> , 2021 , 39, 101184	17.9	16
102	"Fishing" nano-bio interactions at the key biological barriers. <i>Nanoscale</i> , 2021 , 13, 5954-5964	7.7	1
101	Elevated amyloidoses of human IAPP and amyloid beta by lipopolysaccharide and their mitigation by carbon quantum dots. <i>Nanoscale</i> , 2020 , 12, 12317-12328	7.7	15
100	Uptake of graphene enhanced the photophosphorylation performed by chloroplasts in rice plants. <i>Nano Research</i> , 2020 , 13, 3198-3205	10	8
99	Nanotechnology in soil remediation - applications vs. implications. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 201, 110815	7	34
98	Redox Activity and Nano-Bio Interactions Determine the Skin Injury Potential of CoO-Based Metal Oxide Nanoparticles toward Zebrafish. <i>ACS Nano</i> , 2020 , 14, 4166-4177	16.7	6
97	Environmental Hazard Potential of Nano-Photocatalysts Determined by Nano-Bio Interactions and Exposure Conditions. <i>Small</i> , 2020 , 16, e1907690	11	10
96	Nano-Photocatalysts: Environmental Hazard Potential of Nano-Photocatalysts Determined by Nano-Bio Interactions and Exposure Conditions (Small 21/2020). <i>Small</i> , 2020 , 16, 2070118	11	
95	Reduced graphene oxide composites and its real-life application potential for in-situ crude oil removal. <i>Chemosphere</i> , 2020 , 249, 126141	8.4	19
94	Zebrafish Larvae Phenotype Classification from Bright-field Microscopic Images Using a Two-Tier Deep-Learning Pipeline. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1247	2.6	4
93	Amyloid Beta Pathogenesis: Accelerated Amyloid Beta Pathogenesis by Bacterial Amyloid FapC (Adv. Sci. 18/2020). <i>Advanced Science</i> , 2020 , 7, 2070100	13.6	78

92	Accelerated Amyloid Beta Pathogenesis by Bacterial Amyloid FapC. <i>Advanced Science</i> , 2020 , 7, 2001299	13.6	21
91	Efficient antimicrobial properties of layered double hydroxide assembled with transition metals via a facile preparation method. <i>Chinese Chemical Letters</i> , 2020 , 31, 1511-1515	8.1	11
90	Enhanced photoreductive degradation of perfluorooctanesulfonate by UV irradiation in the presence of ethylenediaminetetraacetic acid. <i>Chemical Engineering Journal</i> , 2020 , 379, 122338	14.7	13
89	Inhibition of amyloid beta toxicity in zebrafish with a chaperone-gold nanoparticle dual strategy. <i>Nature Communications</i> , 2019 , 10, 3780	17.4	77
88	Automatic Zebrafish Egg Phenotype Recognition from Bright-Field Microscopic Images Using Deep Convolutional Neural Network. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3362	2.6	3
87	Enhanced Photoelectrocatalytic Reduction and Removal of Atrazine: Effect of Co-Catalyst and Cathode Potential. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 38663-38673	9.5	3
86	Physical and Toxicological Profiles of Human IAPP Amyloids and Plaques. <i>Science Bulletin</i> , 2019 , 64, 26-35	10.6	15
85	Seasonally Relevant Cool Temperatures Interact with N Chemistry to Increase Microcystins Produced in Lab Cultures of <i>Microcystis aeruginosa</i> NIES-843. <i>Environmental Science & Technology</i> , 2018 , 52, 4127-4136	10.3	30
84	Differential effects of metal oxide nanoparticles on zebrafish embryos and developing larvae. <i>Environmental Science: Nano</i> , 2018 , 5, 1200-1207	7.1	13
83	UV/Nitritotriacetic Acid Process as a Novel Strategy for Efficient Photoreductive Degradation of Perfluorooctanesulfonate. <i>Environmental Science & Technology</i> , 2018 , 52, 2953-2962	10.3	43
82	Environmental Impacts by Fragments Released from Nanoenabled Products: A Multiassay, Multimaterial Exploration by the SUN Approach. <i>Environmental Science & Technology</i> , 2018 , 52, 1514-1524	19.3	30
81	Nanomaterials Safer-by-Design: An Environmental Safety Perspective. <i>Advanced Materials</i> , 2018 , 30, e1705691	24	41
80	Bioaccumulation of C-Labeled Graphene in an Aquatic Food Chain through Direct Uptake or Trophic Transfer. <i>Environmental Science & Technology</i> , 2018 , 52, 541-549	10.3	25
79	Safety of Nanomaterials: Nanomaterials Safer-by-Design: An Environmental Safety Perspective (Adv. Mater. 17/2018). <i>Advanced Materials</i> , 2018 , 30, 1870121	24	0
78	Transformation of ¹⁴ C-Labeled Graphene to ¹⁴ CO ₂ in the Shoots of a Rice Plant. <i>Angewandte Chemie</i> , 2018 , 130, 9907-9911	3.6	13
77	Photocatalytic Degradation of 4-Nitrophenol by C, N-TiO ₂ : Degradation Efficiency vs. Embryonic Toxicity of the Resulting Compounds. <i>Frontiers in Chemistry</i> , 2018 , 6, 192	5	36
76	Response of <i>Microcystis aeruginosa</i> FACHB-905 to different nutrient ratios and changes in phosphorus chemistry. <i>Journal of Oceanology and Limnology</i> , 2018 , 36, 1040-1052	1.5	3
75	In Vivo Mitigation of Amyloidogenesis through Functional-Pathogenic Double-Protein Coronae. <i>Nano Letters</i> , 2018 , 18, 5797-5804	11.5	31

74	A 3-dimensional (3D)-printed Template for High Throughput Zebrafish Embryo Arraying. <i>Journal of Visualized Experiments</i> , 2018 ,	1.6	3
73	Transformation of C-Labeled Graphene to CO in the Shoots of a Rice Plant. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 9759-9763	16.4	30
72	Biological image analysis using deep learning-based methods: Literature review. <i>Digital Medicine</i> , 2018 , 4, 157	0.3	5
71	Graphene quantum dots against human IAPP aggregation and toxicity in vivo. <i>Nanoscale</i> , 2018 , 10, 19995-20006	7.7	67
70	NanoStem Cell Interactions: Applications Versus Implications. <i>Nano LIFE</i> , 2018 , 08, 1841001	0.9	1
69	Mitigating Human IAPP Amyloidogenesis In Vivo with Chiral Silica Nanoribbons. <i>Small</i> , 2018 , 14, e1802825	25	44
68	A titanium-based photo-Fenton bifunctional catalyst of mp-MXene/TiO nanodots for dramatic enhancement of catalytic efficiency in advanced oxidation processes. <i>Chemical Communications</i> , 2018 , 54, 11622-11625	5.8	54
67	Spatiotemporal distribution and potential sources of perfluoroalkyl acids in Huangpu River, Shanghai, China. <i>Chemosphere</i> , 2017 , 174, 127-135	8.4	30
66	Pro-Inflammatory and Pro-Fibrogenic Effects of Ionic and Particulate Arsenide and Indium-Containing Semiconductor Materials in the Murine Lung. <i>ACS Nano</i> , 2017 , 11, 1869-1883	16.7	13
65	Biological Uptake, Distribution, and Depuration of Radio-Labeled Graphene in Adult Zebrafish: Effects of Graphene Size and Natural Organic Matter. <i>ACS Nano</i> , 2017 , 11, 2872-2885	16.7	66
64	Differential effect of micron- versus nanoscale III/V particulates and ionic species on the zebrafish gut. <i>Environmental Science: Nano</i> , 2017 , 4, 1350-1364	7.1	9
63	Comparative environmental fate and toxicity of copper nanomaterials. <i>NanoImpact</i> , 2017 , 7, 28-40	5.6	208
62	NanoEHS beyond Toxicity - Focusing on Biocorona. <i>Environmental Science: Nano</i> , 2017 , 7, 1433-1454	7.1	33
61	Safe-by-Design CuO Nanoparticles via Fe-Doping, Cu-O Bond Length Variation, and Biological Assessment in Cells and Zebrafish Embryos. <i>ACS Nano</i> , 2017 , 11, 501-515	16.7	74
60	Efficient photoreductive decomposition of N-nitrosodimethylamine by UV/iodide process. <i>Journal of Hazardous Materials</i> , 2017 , 329, 185-192	12.8	23
59	Oil refinery wastewater treatment in the Niger Delta, Nigeria: current practices, challenges, and recommendations. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 22730-22740	5.1	12
58	Impact of humic acid on the photoreductive degradation of perfluorooctane sulfonate (PFOS) by UV/Iodide process. <i>Water Research</i> , 2017 , 127, 50-58	12.5	63
57	A promising trend for nano-EHS research Integrating fate and transport analysis with safety assessment using model organisms. <i>NanoImpact</i> , 2017 , 7, 1-6	5.6	7

56	A Decade of the Protein Corona. <i>ACS Nano</i> , 2017 , 11, 11773-11776	16.7	329
55	Transcriptional and Physiological Responses to Nutrient Loading on Toxin Formation and Photosynthesis in <i>Microcystis Aeruginosa</i> FACHB-905. <i>Toxins</i> , 2017 , 9,	4.9	8
54	Lanthanide Hydroxide Nanoparticles Induce Angiogenesis via ROS-Sensitive Signaling. <i>Small</i> , 2016 , 12, 4404-11	11	31
53	Waste activated sludge hydrolysis and acidification: A comparison between sodium hydroxide and steel slag addition. <i>Journal of Environmental Sciences</i> , 2016 , 48, 200-208	6.4	14
52	Perfluoroalkyl acids in municipal landfill leachates from China: Occurrence, fate during leachate treatment and potential impact on groundwater. <i>Science of the Total Environment</i> , 2015 , 524-525, 23-31	10.2	88
51	Quantitative Adverse Outcome Pathway Analysis of Hatching in Zebrafish with CuO Nanoparticles. <i>Environmental Science & Technology</i> , 2015 , 49, 11817-24	10.3	45
50	Organ-Specific and Size-Dependent Ag Nanoparticle Toxicity in Gills and Intestines of Adult Zebrafish. <i>ACS Nano</i> , 2015 , 9, 9573-84	16.7	135
49	Implications of the Differential Toxicological Effects of III-V Ionic and Particulate Materials for Hazard Assessment of Semiconductor Slurries. <i>ACS Nano</i> , 2015 , 9, 12011-25	16.7	13
48	Occurrence and fate of perfluorinated acids in two wastewater treatment plants in Shanghai, China. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 1804-11	5.1	26
47	Photoinduced Reductive Decomposition of Perfluorooctanoic Acid in Water: Effect of Temperature and Ionic Strength. <i>Clean - Soil, Air, Water</i> , 2015 , 43, 223-228	1.6	18
46	Understanding the transformation, speciation, and hazard potential of copper particles in a model septic tank system using zebrafish to monitor the effluent. <i>ACS Nano</i> , 2015 , 9, 2038-48	16.7	46
45	Use of a pro-fibrogenic mechanism-based predictive toxicological approach for tiered testing and decision analysis of carbonaceous nanomaterials. <i>ACS Nano</i> , 2015 , 9, 3032-43	16.7	90
44	Use of coated silver nanoparticles to understand the relationship of particle dissolution and bioavailability to cell and lung toxicological potential. <i>Small</i> , 2014 , 10, 385-98	11	207
43	Aspect ratio plays a role in the hazard potential of CeO ₂ nanoparticles in mouse lung and zebrafish gastrointestinal tract. <i>ACS Nano</i> , 2014 , 8, 4450-64	16.7	89
42	PdO doping tunes band-gap energy levels as well as oxidative stress responses to a CoO ₂ -type semiconductor in cells and the lung. <i>Journal of the American Chemical Society</i> , 2014 , 136, 6406-20	16.4	114
41	Surface interactions with compartmentalized cellular phosphates explain rare earth oxide nanoparticle hazard and provide opportunities for safer design. <i>ACS Nano</i> , 2014 , 8, 1771-83	16.7	177
40	Integrase-deficient lentivirus: opportunities and challenges for human gene therapy. <i>Current Gene Therapy</i> , 2014 , 14, 352-64	4.3	18
39	Nanomaterial toxicity testing in the 21st century: use of a predictive toxicological approach and high-throughput screening. <i>Accounts of Chemical Research</i> , 2013 , 46, 607-21	24.3	448

38	Sorption of short- and long-chain perfluoroalkyl surfactants on sewage sludges. <i>Journal of Hazardous Materials</i> , 2013 , 260, 689-99	12.8	72
37	Codelivery of an optimal drug/siRNA combination using mesoporous silica nanoparticles to overcome drug resistance in breast cancer in vitro and in vivo. <i>ACS Nano</i> , 2013 , 7, 994-1005	16.7	456
36	Size of TiO ₂ nanoparticles influences their phototoxicity: an in vitro investigation. <i>Archives of Toxicology</i> , 2013 , 87, 99-109	5.8	67
35	Surface charge and cellular processing of covalently functionalized multiwall carbon nanotubes determine pulmonary toxicity. <i>ACS Nano</i> , 2013 , 7, 2352-68	16.7	232
34	Characterization of poly(5-hydroxytryptamine)-modified glassy carbon electrode and applications to sensing of norepinephrine and uric acid in preparations and human urines. <i>Electrochimica Acta</i> , 2013 , 92, 341-348	6.7	16
33	Zebrafish high-throughput screening to study the impact of dissolvable metal oxide nanoparticles on the hatching enzyme, ZHE1. <i>Small</i> , 2013 , 9, 1776-85	11	97
32	Metal Oxides: Zebrafish High-Throughput Screening to Study the Impact of Dissolvable Metal Oxide Nanoparticles on the Hatching Enzyme, ZHE1 (Small 910/2013). <i>Small</i> , 2013 , 9, 1775-1775	11	1
31	Zebrafish: an in vivo model for nano EHS studies. <i>Small</i> , 2013 , 9, 1608-18	11	115
30	Implementation of a multidisciplinary approach to solve complex nano EHS problems by the UC Center for the Environmental Implications of Nanotechnology. <i>Small</i> , 2013 , 9, 1428-43	11	29
29	Pluronic F108 coating decreases the lung fibrosis potential of multiwall carbon nanotubes by reducing lysosomal injury. <i>Nano Letters</i> , 2012 , 12, 3050-61	11.5	142
28	Processing pathway dependence of amorphous silica nanoparticle toxicity: colloidal vs pyrolytic. <i>Journal of the American Chemical Society</i> , 2012 , 134, 15790-804	16.4	315
27	Automated phenotype recognition for zebrafish embryo based in vivo high throughput toxicity screening of engineered nano-materials. <i>PLoS ONE</i> , 2012 , 7, e35014	3.7	43
26	Use of metal oxide nanoparticle band gap to develop a predictive paradigm for oxidative stress and acute pulmonary inflammation. <i>ACS Nano</i> , 2012 , 6, 4349-68	16.7	631
25	Surface defects on plate-shaped silver nanoparticles contribute to its hazard potential in a fish gill cell line and zebrafish embryos. <i>ACS Nano</i> , 2012 , 6, 3745-59	16.7	279
24	Designed synthesis of CeO ₂ nanorods and nanowires for studying toxicological effects of high aspect ratio nanomaterials. <i>ACS Nano</i> , 2012 , 6, 5366-80	16.7	275
23	Mast cells contribute to altered vascular reactivity and ischemia-reperfusion injury following cerium oxide nanoparticle instillation. <i>Nanotoxicology</i> , 2011 , 5, 531-45	5.3	63
22	Aspect ratio determines the quantity of mesoporous silica nanoparticle uptake by a small GTPase-dependent macropinocytosis mechanism. <i>ACS Nano</i> , 2011 , 5, 4434-47	16.7	287
21	Dispersal state of multiwalled carbon nanotubes elicits profibrogenic cellular responses that correlate with fibrogenesis biomarkers and fibrosis in the murine lung. <i>ACS Nano</i> , 2011 , 5, 9772-87	16.7	159

20	Use of a high-throughput screening approach coupled with in vivo zebrafish embryo screening to develop hazard ranking for engineered nanomaterials. <i>ACS Nano</i> , 2011 , 5, 1805-17	16.7	280
19	High content screening in zebrafish speeds up hazard ranking of transition metal oxide nanoparticles. <i>ACS Nano</i> , 2011 , 5, 7284-95	16.7	154
18	Decreased dissolution of ZnO by iron doping yields nanoparticles with reduced toxicity in the rodent lung and zebrafish embryos. <i>ACS Nano</i> , 2011 , 5, 1223-35	16.7	298
17	Method development for analysis of short- and long-chain perfluorinated acids in solid matrices. <i>International Journal of Environmental Analytical Chemistry</i> , 2011 , 91, 1117-1134	1.8	9
16	Binding of nanoplastics onto a cellulose film 2010 ,		2
15	Physical Adsorption of Charged Plastic Nanoparticles Affects Algal Photosynthesis. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 16556-16561	3.8	415
14	Photo-reductive defluorination of perfluorooctanoic acid in water. <i>Water Research</i> , 2010 , 44, 2939-47	12.5	145
13	Fluorescence resonance energy transfer between phenanthrene and PAMAM dendrimers. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 9285-91	3.6	33
12	Adsorption Mechanism of Perfluorooctane Sulfonate on Granular Activated Carbon in Wastewater. <i>International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering</i> , 2010 ,		1
11	Acute toxicity of a mixture of copper and single-walled carbon nanotubes to <i>Daphnia magna</i> . <i>Environmental Toxicology and Chemistry</i> , 2010 , 29, 122-6	3.8	57
10	Differential uptake of carbon nanoparticles by plant and Mammalian cells. <i>Small</i> , 2010 , 6, 612-7	11	171
9	The Determination of Dynamic Adsorption Curve, Adsorption Capacity and Breakthrough Capacity of Powdered Activated Carbon for Perfluorooctanoic Acid elimination from Water 2009 ,		1
8	Sorption and Biodegradation of ¹⁷ Estradiol by Acclimated Aerobic Activated Sludge and Isolation of the Bacterial Strain. <i>Environmental Engineering Science</i> , 2009 , 26, 783-790	2	47
7	Adopters and non-adopters of e-procurement in Singapore: An empirical study. <i>Omega</i> , 2009 , 37, 972-987	7.2	198
6	Uptake, translocation, and transmission of carbon nanomaterials in rice plants. <i>Small</i> , 2009 , 5, 1128-32	11	345
5	Effects of Quantum Dots Adsorption on Algal Photosynthesis. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 10962-10966	3.8	66
4	Real-time translocation of fullerene reveals cell contraction. <i>Small</i> , 2008 , 4, 1986-92	11	38
3	Direct plant gene delivery with a poly(amidoamine) dendrimer. <i>Biotechnology Journal</i> , 2008 , 3, 1078-82	5.6	51

2	In vivo biomodification of lipid-coated carbon nanotubes by Daphnia magna. <i>Environmental Science & Technology</i> , 2007 , 41, 3025-9	10.3	284
1	Detection of phospholipid-carbon nanotube translocation using fluorescence energy transfer. <i>Applied Physics Letters</i> , 2006 , 89, 143118	3.4	35