Sijie Lin

List of Publications by Citations

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	Use of metal oxide nanoparticle band gap to develop a predictive paradigm for oxidative stress and acute pulmonary inflammation. *ACS Nano*, **2012**, 6, 4349-68	16.7	631
108	Codelivery of an optimal drug/siRNA combination using mesoporous silica nanoparticles to overcome drug resistance in breast cancer in vitro and in vivo. *ACS Nano*, **2013**, 7, 994-1005	16.7	456
107	Nanomaterial toxicity testing in the 21st century: use of a predictive toxicological approach and high-throughput screening. *Accounts of Chemical Research*, **2013**, 46, 607-21	24.3	448
106	Physical Adsorption of Charged Plastic Nanoparticles Affects Algal Photosynthesis. *Journal of Physical Chemistry C*, **2010**, 114, 16556-16561	3.8	415
105	Uptake, translocation, and transmission of carbon nanomaterials in rice plants. *Small*, **2009**, 5, 1128-32	11	345
104	A Decade of the Protein Corona. *ACS Nano*, **2017**, 11, 11773-11776	16.7	329
103	Processing pathway dependence of amorphous silica nanoparticle toxicity: colloidal vs pyrolytic. *Journal of the American Chemical Society*, **2012**, 134, 15790-804	16.4	315
102	Decreased dissolution of ZnO by iron doping yields nanoparticles with reduced toxicity in the rodent lung and zebrafish embryos. *ACS Nano*, **2011**, 5, 1223-35	16.7	298
101	Aspect ratio determines the quantity of mesoporous silica nanoparticle uptake by a small GTPase-dependent macropinocytosis mechanism. *ACS Nano*, **2011**, 5, 4434-47	16.7	287
100	In vivo biomodification of lipid-coated carbon nanotubes by Daphnia magna. *Environmental Science & Technology*, **2007**, 41, 3025-9	10.3	284
99	Use of a high-throughput screening approach coupled with in vivo zebrafish embryo screening to develop hazard ranking for engineered nanomaterials. *ACS Nano*, **2011**, 5, 1805-17	16.7	280
98	Surface defects on plate-shaped silver nanoparticles contribute to its hazard potential in a fish gill cell line and zebrafish embryos. *ACS Nano*, **2012**, 6, 3745-59	16.7	279
97	Designed synthesis of CeO2 nanorods and nanowires for studying toxicological effects of high aspect ratio nanomaterials. *ACS Nano*, **2012**, 6, 5366-80	16.7	275
96	Surface charge and cellular processing of covalently functionalized multiwall carbon nanotubes determine pulmonary toxicity. *ACS Nano*, **2013**, 7, 2352-68	16.7	232
95	Comparative environmental fate and toxicity of copper nanomaterials. *NanoImpact*, **2017**, 7, 28-40	5.6	208
94	Use of coated silver nanoparticles to understand the relationship of particle dissolution and bioavailability to cell and lung toxicological potential. *Small*, **2014**, 10, 385-98	11	207
93	Adopters and non-adopters of e-procurement in Singapore: An empirical study. *Omega*, **2009**, 37, 972-987	7.2	198

92	Surface interactions with compartmentalized cellular phosphates explain rare earth oxide nanoparticle hazard and provide opportunities for safer design. *ACS Nano*, **2014**, 8, 1771-83	16.7	177
91	Differential uptake of carbon nanoparticles by plant and Mammalian cells. *Small*, **2010**, 6, 612-7	11	171
90	Dispersal state of multiwalled carbon nanotubes elicits profibrogenic cellular responses that correlate with fibrogenesis biomarkers and fibrosis in the murine lung. *ACS Nano*, **2011**, 5, 9772-87	16.7	159
89	High content screening in zebrafish speeds up hazard ranking of transition metal oxide nanoparticles. *ACS Nano*, **2011**, 5, 7284-95	16.7	154
88	Photo-reductive defluorination of perfluorooctanoic acid in water. *Water Research*, **2010**, 44, 2939-47	12.5	145
87	Pluronic F108 coating decreases the lung fibrosis potential of multiwall carbon nanotubes by reducing lysosomal injury. *Nano Letters*, **2012**, 12, 3050-61	11.5	142
86	Organ-Specific and Size-Dependent Ag Nanoparticle Toxicity in Gills and Intestines of Adult Zebrafish. *ACS Nano*, **2015**, 9, 9573-84	16.7	135
85	Zebrafish: an in vivo model for nano EHS studies. *Small*, **2013**, 9, 1608-18	11	115
84	PdO doping tunes band-gap energy levels as well as oxidative stress responses to a CoDDp-type semiconductor in cells and the lung. *Journal of the American Chemical Society*, **2014**, 136, 6406-20	16.4	114
83	Zebrafish high-throughput screening to study the impact of dissolvable metal oxide nanoparticles on the hatching enzyme, ZHE1. *Small*, **2013**, 9, 1776-85	11	97
82	Use of a pro-fibrogenic mechanism-based predictive toxicological approach for tiered testing and decision analysis of carbonaceous nanomaterials. *ACS Nano*, **2015**, 9, 3032-43	16.7	90
81	Aspect ratio plays a role in the hazard potential of CeO2 nanoparticles in mouse lung and zebrafish gastrointestinal tract. *ACS Nano*, **2014**, 8, 4450-64	16.7	89
80	Perfluoroalkyl acids in municipal landfill leachates from China: Occurrence, fate during leachate treatment and potential impact on groundwater. *Science of the Total Environment*, **2015**, 524-525, 23-31	10.2	88
79	Amyloid Beta Pathogenesis: Accelerated Amyloid Beta Pathogenesis by Bacterial Amyloid FapC (Adv. Sci. 18/2020). *Advanced Science*, **2020**, 7, 2070100	13.6	78
78	Inhibition of amyloid beta toxicity in zebrafish with a chaperone-gold nanoparticle dual strategy. *Nature Communications*, **2019**, 10, 3780	17.4	77
77	Safe-by-Design CuO Nanoparticles via Fe-Doping, Cu-O Bond Length Variation, and Biological Assessment in Cells and Zebrafish Embryos. *ACS Nano*, **2017**, 11, 501-515	16.7	74
76	Sorption of short- and long-chain perfluoroalkyl surfactants on sewage sludges. *Journal of Hazardous Materials*, **2013**, 260, 689-99	12.8	72
75	Size of TiO(2) nanoparticles influences their phototoxicity: an in vitro investigation. *Archives of Toxicology*, **2013**, 87, 99-109	5.8	67

74	Graphene quantum dots against human IAPP aggregation and toxicity in vivo. *Nanoscale*, **2018**, 10, 19995-20006	7.7	67
73	Biological Uptake, Distribution, and Depuration of Radio-Labeled Graphene in Adult Zebrafish: Effects of Graphene Size and Natural Organic Matter. *ACS Nano*, **2017**, 11, 2872-2885	16.7	66
72	Effects of Quantum Dots Adsorption on Algal Photosynthesis. *Journal of Physical Chemistry C*, **2009**, 113, 10962-10966	3.8	66
71	Impact of humic acid on the photoreductive degradation of perfluorooctane sulfonate (PFOS) by UV/Iodide process. *Water Research*, **2017**, 127, 50-58	12.5	63
70	Mast cells contribute to altered vascular reactivity and ischemia-reperfusion injury following cerium oxide nanoparticle instillation. *Nanotoxicology*, **2011**, 5, 531-45	5.3	63
69	Acute toxicity of a mixture of copper and single-walled carbon nanotubes to Daphnia magna. *Environmental Toxicology and Chemistry*, **2010**, 29, 122-6	3.8	57
68	A titanium-based photo-Fenton bifunctional catalyst of mp-MXene/TiO nanodots for dramatic enhancement of catalytic efficiency in advanced oxidation processes. *Chemical Communications*, **2018**, 54, 11622-11625	5.8	54
67	Direct plant gene delivery with a poly(amidoamine) dendrimer. *Biotechnology Journal*, **2008**, 3, 1078-82	5.6	51
66	Sorption and Biodegradation of 17Β-Estradiol by Acclimated Aerobic Activated Sludge and Isolation of the Bacterial Strain. *Environmental Engineering Science*, **2009**, 26, 783-790	2	47
65	Understanding the transformation, speciation, and hazard potential of copper particles in a model septic tank system using zebrafish to monitor the effluent. *ACS Nano*, **2015**, 9, 2038-48	16.7	46
64	Quantitative Adverse Outcome Pathway Analysis of Hatching in Zebrafish with CuO Nanoparticles. *Environmental Science & Technology*, **2015**, 49, 11817-24	10.3	45
63	Mitigating Human IAPP Amyloidogenesis In Vivo with Chiral Silica Nanoribbons. *Small*, **2018**, 14, e1802825	11	44
62	UV/Nitrilotriacetic Acid Process as a Novel Strategy for Efficient Photoreductive Degradation of Perfluorooctanesulfonate. *Environmental Science & Technology*, **2018**, 52, 2953-2962	10.3	43
61	Automated phenotype recognition for zebrafish embryo based in vivo high throughput toxicity screening of engineered nano-materials. *PLoS ONE*, **2012**, 7, e35014	3.7	43
60	Nanomaterials Safer-by-Design: An Environmental Safety Perspective. *Advanced Materials*, **2018**, 30, e1705691	24	41
59	Real-time translocation of fullerene reveals cell contraction. *Small*, **2008**, 4, 1986-92	11	38
58	Photocatalytic Degradation of 4-Nitrophenol by C, N-TiO: Degradation Efficiency vs. Embryonic Toxicity of the Resulting Compounds. *Frontiers in Chemistry*, **2018**, 6, 192	5	36
57	Detection of phospholipid-carbon nanotube translocation using fluorescence energy transfer. *Applied Physics Letters*, **2006**, 89, 143118	3.4	35

56	Nanotechnology in soil remediation - applications vs. implications. *Ecotoxicology and Environmental Safety*, **2020**, 201, 110815	7	34
55	NanoEHS beyond Toxicity - Focusing on Biocorona. *Environmental Science: Nano*, **2017**, 7, 1433-1454	7.1	33
54	Fluorescence resonance energy transfer between phenanthrene and PAMAM dendrimers. *Physical Chemistry Chemical Physics*, **2010**, 12, 9285-91	3.6	33
53	Lanthanide Hydroxide Nanoparticles Induce Angiogenesis via ROS-Sensitive Signaling. *Small*, **2016**, 12, 4404-11	11	31
52	In Vivo Mitigation of Amyloidogenesis through Functional-Pathogenic Double-Protein Coronae. *Nano Letters*, **2018**, 18, 5797-5804	11.5	31
51	Spatiotemporal distribution and potential sources of perfluoroalkyl acids in Huangpu River, Shanghai, China. *Chemosphere*, **2017**, 174, 127-135	8.4	30
50	Seasonally Relevant Cool Temperatures Interact with N Chemistry to Increase Microcystins Produced in Lab Cultures of Microcystis aeruginosa NIES-843. *Environmental Science & Technology*, **2018**, 52, 4127-4136	10.3	30
49	Environmental Impacts by Fragments Released from Nanoenabled Products: A Multiassay, Multimaterial Exploration by the SUN Approach. *Environmental Science & Technology*, **2018**, 52, 1514-1524	10.3	30
48	Transformation of C-Labeled Graphene to CO in the Shoots of a Rice Plant. *Angewandte Chemie - International Edition*, **2018**, 57, 9759-9763	16.4	30
47	Implementation of a multidisciplinary approach to solve complex nano EHS problems by the UC Center for the Environmental Implications of Nanotechnology. *Small*, **2013**, 9, 1428-43	11	29
46	Occurrence and fate of perfluorinated acids in two wastewater treatment plants in Shanghai, China. *Environmental Science and Pollution Research*, **2015**, 22, 1804-11	5.1	26
45	Bioaccumulation of C-Labeled Graphene in an Aquatic Food Chain through Direct Uptake or Trophic Transfer. *Environmental Science & Technology*, **2018**, 52, 541-549	10.3	25
44	Efficient photoreductive decomposition of N-nitrosodimethylamine by UV/iodide process. *Journal of Hazardous Materials*, **2017**, 329, 185-192	12.8	23
43	Accelerated Amyloid Beta Pathogenesis by Bacterial Amyloid FapC. *Advanced Science*, **2020**, 7, 2001299	13.6	21
42	Reduced graphene oxide composites and its real-life application potential for in-situ crude oil removal. *Chemosphere*, **2020**, 249, 126141	8.4	19
41	Photoinduced Reductive Decomposition of Perflurooctanoic Acid in Water: Effect of Temperature and Ionic Strength. *Clean - Soil, Air, Water*, **2015**, 43, 223-228	1.6	18
40	Integrase-deficient lentivirus: opportunities and challenges for human gene therapy. *Current Gene Therapy*, **2014**, 14, 352-64	4.3	18
39	Characterization of poly(5-hydroxytryptamine)-modified glassy carbon electrode and applications to sensing of norepinephrine and uric acid in preparations and human urines. *Electrochimica Acta*, **2013**, 92, 341-348	6.7	16

38	Nanotoxicology and nanomedicine: The Yin and Yang of nano-bio interactions for the new decade. *Nano Today*, **2021**, 39, 101184	17.9	16
37	Elevated amyloidoses of human IAPP and amyloid beta by lipopolysaccharide and their mitigation by carbon quantum dots. *Nanoscale*, **2020**, 12, 12317-12328	7.7	15
36	Physical and Toxicological Profiles of Human IAPP Amyloids and Plaques. *Science Bulletin*, **2019**, 64, 26-35	10.6	15
35	Waste activated sludge hydrolysis and acidification: A comparison between sodium hydroxide and steel slag addition. *Journal of Environmental Sciences*, **2016**, 48, 200-208	6.4	14
34	Synthesis of sponge-like TiO2 with surface-phase junctions for enhanced visible-light photocatalytic performance. *Chinese Chemical Letters*, **2021**, 32, 1823-1826	8.1	14
33	Pro-Inflammatory and Pro-Fibrogenic Effects of Ionic and Particulate Arsenide and Indium-Containing Semiconductor Materials in the Murine Lung. *ACS Nano*, **2017**, 11, 1869-1883	16.7	13
32	Implications of the Differential Toxicological Effects of III-V Ionic and Particulate Materials for Hazard Assessment of Semiconductor Slurries. *ACS Nano*, **2015**, 9, 12011-25	16.7	13
31	Differential effects of metal oxide nanoparticles on zebrafish embryos and developing larvae. *Environmental Science: Nano*, **2018**, 5, 1200-1207	7.1	13
30	Transformation of 14C-Labeled Graphene to 14CO2 in the Shoots of a Rice Plant. *Angewandte Chemie*, **2018**, 130, 9907-9911	3.6	13
29	Enhanced photoreductive degradation of perfluorooctanesulfonate by UV irradiation in the presence of ethylenediaminetetraacetic acid. *Chemical Engineering Journal*, **2020**, 379, 122338	14.7	13
28	Oil refinery wastewater treatment in the Niger Delta, Nigeria: current practices, challenges, and recommendations. *Environmental Science and Pollution Research*, **2017**, 24, 22730-22740	5.1	12
27	Efficient antimicrobial properties of layered double hydroxide assembled with transition metals via a facile preparation method. *Chinese Chemical Letters*, **2020**, 31, 1511-1515	8.1	11
26	Environmental Hazard Potential of Nano-Photocatalysts Determined by Nano-Bio Interactions and Exposure Conditions. *Small*, **2020**, 16, e1907690	11	10
25	Differential effect of micron- versus nanoscale III□V particulates and ionic species on the zebrafish gut. *Environmental Science: Nano*, **2017**, 4, 1350-1364	7.1	9
24	Method development for analysis of short- and long-chain perfluorinated acids in solid matrices. *International Journal of Environmental Analytical Chemistry*, **2011**, 91, 1117-1134	1.8	9
23	Uptake of graphene enhanced the photophosphorylation performed by chloroplasts in rice plants. *Nano Research*, **2020**, 13, 3198-3205	10	8
22	Transcriptional and Physiological Responses to Nutrient Loading on Toxin Formation and Photosynthesis in Microcystis Aeruginosa FACHB-905. *Toxins*, **2017**, 9,	4.9	8
21	A promising trend for nano-EHS research □Integrating fate and transport analysis with safety assessment using model organisms. *NanoImpact*, **2017**, 7, 1-6	5.6	7

20	Redox Activity and Nano-Bio Interactions Determine the Skin Injury Potential of CoO-Based Metal Oxide Nanoparticles toward Zebrafish. *ACS Nano*, **2020**, 14, 4166-4177	16.7	6
19	Biological image analysis using deep learning-based methods: Literature review. *Digital Medicine*, **2018**, 4, 157	0.3	5
18	Zebrafish Larvae Phenotype Classification from Bright-field Microscopic Images Using a Two-Tier Deep-Learning Pipeline. *Applied Sciences (Switzerland)*, **2020**, 10, 1247	2.6	4
17	Automatic Zebrafish Egg Phenotype Recognition from Bright-Field Microscopic Images Using Deep Convolutional Neural Network. *Applied Sciences (Switzerland)*, **2019**, 9, 3362	2.6	3
16	Response of Microcystis aeruginosa FACHB-905 to different nutrient ratios and changes in phosphorus chemistry. *Journal of Oceanology and Limnology*, **2018**, 36, 1040-1052	1.5	3
15	A 3-dimensional (3D)-printed Template for High Throughput Zebrafish Embryo Arraying. *Journal of Visualized Experiments*, **2018**,	1.6	3
14	Enhanced Photoelectrocatalytic Reduction and Removal of Atrazine: Effect of Co-Catalyst and Cathode Potential. *ACS Applied Materials & Interfaces*, **2019**, 11, 38663-38673	9.5	3
13	Facile fabrication of ZnO decorated ZnFe-layered double hydroxides @ biochar nanocomposites for synergistic photodegradation of tetracycline under visible light. *Chemical Engineering Journal*, **2022**, 434, 134772	14.7	3
12	Dynamic Protein Corona of Gold Nanoparticles with an Evolving Morphology. *ACS Applied Materials & Interfaces*, **2021**, 13, 58238-58251	9.5	3
11	MXene aerogel-based phase change film for synergistic thermal management inspired by antifreeze beetles. *Cell Reports Physical Science*, **2022**, 100815	6.1	3
10	Binding of nanoplastics onto a cellulose film **2010**,		2
9	Constructing novel graphitic carbon nitride-based nanocomposites - From the perspective of material dimensions and interfacial characteristics.. *Chemosphere*, **2022**, 302, 134889	8.4	2
8	Metal Oxides: Zebrafish High-Throughput Screening to Study the Impact of Dissolvable Metal Oxide Nanoparticles on the Hatching Enzyme, ZHE1 (Small 9/10/2013). *Small*, **2013**, 9, 1775-1775	11	1
7	Adsorption Mechanism of Perfluorooctane Sulfonate on Granular Activated Carbon in Wastewater. *International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering*, **2010**,		1
6	The Determination of Dynamic Adsorption Curve, Adsorption Capacity and Breakthrough Capacity of Powdered Activated Carbon for Perfluorooctanoic Acid elimination from Water **2009**,		1
5	Nano□tem Cell Interactions: Applications Versus Implications. *Nano LIFE*, **2018**, 08, 1841001	0.9	1
4	"Fishing" nano-bio interactions at the key biological barriers. *Nanoscale*, **2021**, 13, 5954-5964	7.7	1
3	Safety of Nanomaterials: Nanomaterials Safer-by-Design: An Environmental Safety Perspective (Adv. Mater. 17/2018). *Advanced Materials*, **2018**, 30, 1870121	24	0

2 Nano-Photocatalysts: Environmental Hazard Potential of Nano-Photocatalysts Determined by Nano-Bio Interactions and Exposure Conditions (Small 21/2020). *Small*, **2020**, 16, 2070118 11

1 Advancements in a Zebrafish Model for Toxicity Assessment of Nanomaterials **2022**, 95-140