

# Ling-yun Zhao

## 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.

90  
papers

1,972  
citations

26  
h-index

43  
g-index

99  
ext. papers

2,607  
ext. citations

8.5  
avg, IF

4.92  
L-index

#	Paper	IF	Citations
90	Rapid assembly of colorless antimicrobial and anti-odor coatings from polyphenols and silver.. <i>Scientific Reports</i> , <b>2022</b> , 12, 2071	4.9	2
89	White matter regeneration induced by aligned fibrin nanofiber hydrogel contributes to motor functional recovery in canine T12 spinal cord injury.. <i>International Journal of Energy Production and Management</i> , <b>2022</b> , 9, rbab069	5.3	1
88	Magnetic Self-Healing Hydrogel from Difunctional Polymers Prepared via the Kabachnik-Fields Reaction.. <i>ACS Macro Letters</i> , <b>2022</b> , 11, 39-45	6.6	3
87	Biodegradable Flexible Electronic Device with Controlled Drug Release for Cancer Treatment. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 21067-21075	9.5	5
86	Galvanic replacement reaction for in situ fabrication of litchi-shaped heterogeneous liquid metal-Au nano-composite for radio-photothermal cancer therapy. <i>Bioactive Materials</i> , <b>2021</b> , 6, 602-612	16.7	16
85	Gold-iron selenide nanocomposites for amplified tumor oxidative stress-augmented photo-radiotherapy. <i>Biomaterials Science</i> , <b>2021</b> , 9, 3979-3988	7.4	5
84	Tannic acid-based metal phenolic networks for bio-applications: a review. <i>Journal of Materials Chemistry B</i> , <b>2021</b> , 9, 4098-4110	7.3	25
83	All-purpose nanostrategy based on dose deposition enhancement, cell cycle arrest, DNA damage, and ROS production as prostate cancer radiosensitizer for potential clinical translation. <i>Nanoscale</i> , <b>2021</b> , 13, 14525-14537	7.7	1
82	Hypoxia-Overcoming Breast-Conserving Treatment by Magnetothermodynamic Implant for a Localized Free-Radical Burst Combined with Hyperthermia. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 35484-35493	9.5	0
81	A multi-modal delivery strategy for spinal cord regeneration using a composite hydrogel presenting biophysical and biochemical cues synergistically. <i>Biomaterials</i> , <b>2021</b> , 276, 120971	15.6	5
80	Metal-phenolic networks: facile assembled complexes for cancer theranostics. <i>Theranostics</i> , <b>2021</b> , 11, 6407-6426	12.1	21
79	Boosting the photothermal performance of vacancy-rich MoSe nanoflowers for photoacoustic imaging guided tumor chemo-photothermal therapy. <i>Nanoscale</i> , <b>2021</b> , 13, 14960-14972	7.7	1
78	Iron nanoparticles augmented chemodynamic effect by alternative magnetic field for wound disinfection and healing. <i>Journal of Controlled Release</i> , <b>2020</b> , 324, 598-609	11.7	16
77	Dual directions to address the problem of aseptic loosening via electrospun PLGA @ aspirin nanofiber coatings on titanium. <i>Biomaterials</i> , <b>2020</b> , 257, 120237	15.6	26
76	Dihydroartemisinin loaded layered double hydroxide nanocomposites for tumor specific photothermal-chemodynamic therapy. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 11082-11089	7.3	11
75	Self-assembling peptide hydrogels functionalized with LN- and BDNF- mimicking epitopes synergistically enhance peripheral nerve regeneration. <i>Theranostics</i> , <b>2020</b> , 10, 8227-8249	12.1	31
74	Boron nitride/agarose hydrogel composites with high thermal conductivities. <i>Rare Metals</i> , <b>2020</b> , 39, 375-382	5.9	11

73	Enhanced angiogenesis by the hyaluronic acid hydrogels immobilized with a VEGF mimetic peptide in a traumatic brain injury model in rats. <i>International Journal of Energy Production and Management</i> , <b>2019</b> , 6, 325-334	5.3	19
72	A novel and facile prepared wound dressing based on large expanded graphite worms. <i>Journal of Materials Research</i> , <b>2019</b> , 34, 490-499	2.5	1
71	Single particle cryo-EM reconstruction of 52 kDa streptavidin at 3.2 Angstrom resolution. <i>Nature Communications</i> , <b>2019</b> , 10, 2386	17.4	71
70	Three-Dimensional Printing and Injectable Conductive Hydrogels for Tissue Engineering Application. <i>Tissue Engineering - Part B: Reviews</i> , <b>2019</b> , 25, 398-411	7.9	45
69	Magnetic Hydrogel with Optimally Adaptive Functions for Breast Cancer Recurrence Prevention. <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, e1900203	10.1	50
68	Non-Magnetic Injectable Implant for Magnetic Field-Driven Thermochemotherapy and Dual Stimuli-Responsive Drug Delivery: Transformable Liquid Metal Hybrid Platform for Cancer Theranostics. <i>Small</i> , <b>2019</b> , 15, e1900511	11	31
67	Manganese-Based Magnetic Layered Double Hydroxide Nanoparticle: A pH-Sensitive and Concurrently Enhanced $T_2$ -Weighted Dual-Mode Magnetic Resonance Imaging Contrast Agent. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 2555-2562	5.5	22
66	Effect of in vitro collagen fibrillogenesis on Langmuir-Blodgett (LB) deposition for cellular behavior regulation. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 179, 48-55	6	4
65	3D Printing of Conductive Tissue Engineering Scaffolds Containing Polypyrrole Nanoparticles with Different Morphologies and Concentrations. <i>Materials</i> , <b>2019</b> , 12,	3.5	25
64	Magnetic Reactive Oxygen Species Nanoreactor for Switchable Magnetic Resonance Imaging Guided Cancer Therapy Based on pH-Sensitive FeC@FeO Nanoparticles. <i>ACS Nano</i> , <b>2019</b> , 13, 10002-10014	16.7	82
63	In Vitro Monolayer Culture of Dispersed Neural Stem Cells on the E-Cadherin-Based Substrate with Long-Term Stemness Maintenance. <i>ACS Omega</i> , <b>2019</b> , 4, 18136-18146	3.9	6
62	Bismuth-based nanoparticles as radiosensitizer in low and high dose rate brachytherapy. <i>Polish Journal of Medical Physics and Engineering</i> , <b>2019</b> , 25, 79-85	0.6	4
61	Synergistic effects of dual-presenting VEGF- and BDNF-mimetic peptide epitopes from self-assembling peptide hydrogels on peripheral nerve regeneration. <i>Nanoscale</i> , <b>2019</b> , 11, 19943-19958	7.7	30
60	Enhanced colloidal stability and protein resistance of layered double hydroxide nanoparticles with phosphonic acid-terminated PEG coating for drug delivery. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 521, 242-251	9.3	42
59	Effect of nanoheat stimulation mediated by magnetic nanocomposite hydrogel on the osteogenic differentiation of mesenchymal stem cells. <i>Science China Life Sciences</i> , <b>2018</b> , 61, 448-456	8.5	21
58	A theranostic nanocomposite system based on radial mesoporous silica hybridized with Fe <sub>3</sub> O <sub>4</sub> nanoparticles for targeted magnetic field responsive chemotherapy of breast cancer. <i>RSC Advances</i> , <b>2018</b> , 8, 4321-4328	3.7	23
57	All-in-One Nanoparticles for Trimodality Imaging-Guided Intracellular Photo-magnetic Hyperthermia Therapy under Intravenous Administration. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705710	15.6	66
56	A neurotrophic peptide-functionalized self-assembling peptide nanofiber hydrogel enhances rat sciatic nerve regeneration. <i>Nano Research</i> , <b>2018</b> , 11, 4599-4613	10	30

55	Doxorubicin-loaded Fe <sub>3</sub> O <sub>4</sub> @MoS <sub>2</sub> -PEG-2DG nanocubes as a theranostic platform for magnetic resonance imaging-guided chemo-photothermal therapy of breast cancer. <i>Nano Research</i> , <b>2018</b> , 11, 2470-2487 <sup>19</sup> <sup>39</sup>		
54	Shape-, size- and structure-controlled synthesis and biocompatibility of iron oxide nanoparticles for magnetic theranostics. <i>Theranostics</i> , <b>2018</b> , 8, 3284-3307	12.1	172
53	Biodegradable Batteries: A Fully Biodegradable Battery for Self-Powered Transient Implants (Small 28/2018). <i>Small</i> , <b>2018</b> , 14, 1870129	11	1
52	Determining the RAD51-DNA Nucleoprotein Filament Structure and Function by Cryo-Electron Microscopy. <i>Methods in Enzymology</i> , <b>2018</b> , 600, 179-199	1.7	4
51	Thin-Film Optical Filters: High Performance, Biocompatible Dielectric Thin-Film Optical Filters Integrated with Flexible Substrates and Microscale Optoelectronic Devices (Advanced Optical Materials 15/2018). <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1870061	8.1	1
50	Hierarchically aligned fibrin nanofiber hydrogel accelerated axonal regrowth and locomotor function recovery in rat spinal cord injury. <i>International Journal of Nanomedicine</i> , <b>2018</b> , 13, 2883-2895	7.3	49
49	Microscale optoelectronic infrared-to-visible upconversion devices and their use as injectable light sources. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 6632-6637 <sup>11.5</sup> <sup>51</sup>		
48	In situ biomineralization by silkworm feeding with ion precursors for the improved mechanical properties of silk fiber. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 109, 21-26	7.9	25
47	Increased recruitment of endogenous stem cells and chondrogenic differentiation by a composite scaffold containing bone marrow homing peptide for cartilage regeneration. <i>Theranostics</i> , <b>2018</b> , 8, 5039-5058 <sup>12.1</sup> <sup>57</sup>		
46	High Performance, Biocompatible Dielectric Thin-Film Optical Filters Integrated with Flexible Substrates and Microscale Optoelectronic Devices. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800146	8.1	16
45	A Fully Biodegradable Battery for Self-Powered Transient Implants. <i>Small</i> , <b>2018</b> , 14, e1800994	11	69
44	Mineralized Collagen-Based Composite Bone Materials for Cranial Bone Regeneration in Developing Sheep. <i>ACS Biomaterials Science and Engineering</i> , <b>2017</b> , 3, 1092-1099	5.5	23
43	General synthesis of high-performing magneto-conjugated polymer core-shell nanoparticles for multifunctional theranostics. <i>Nano Research</i> , <b>2017</b> , 10, 704-717	10	23
42	Cryo-EM structures of human RAD51 recombinase filaments during catalysis of DNA-strand exchange. <i>Nature Structural and Molecular Biology</i> , <b>2017</b> , 24, 40-46	17.6	60
41	Near-Atomic Resolution Structure Determination in Over-Focus with Volta Phase Plate by Cs-Corrected Cryo-EM. <i>Structure</i> , <b>2017</b> , 25, 1623-1630.e3	5.2	28
40	Melatonin potentiates "inside-out" nano-thermotherapy in human breast cancer cells: a potential cancer target multimodality treatment based on melatonin-loaded nanocomposite particles. <i>International Journal of Nanomedicine</i> , <b>2017</b> , 12, 7351-7363	7.3	10
39	Injectable and Self-Healing Thermosensitive Magnetic Hydrogel for Asynchronous Control Release of Doxorubicin and Docetaxel to Treat Triple-Negative Breast Cancer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 33660-33673	9.5	106
38	Tetraphenylethylene- and fluorene-functionalized near-infrared aza-BODIPY dyes for living cell imaging. <i>RSC Advances</i> , <b>2017</b> , 7, 55839-55845	3.7	5

37	Nanobiomaterials: State of the Art <b>2017</b> , 3-35	
36	Nonconventional Biosensors Based on Nanomembrane Materials <b>2017</b> , 241-257	1
35	Nanobiomaterials for Molecular Imaging <b>2017</b> , 259-279	1
34	Engineering Nanobiomaterials for Improved Tissue Regeneration <b>2017</b> , 281-304	1
33	Nanobiomaterials for Cancer Therapy <b>2017</b> , 305-327	1
32	Chemical Synthesis and Biomedical Applications of Iron Oxide Nanoparticles <b>2017</b> , 329-358	1
31	Gold Nanoparticles and Their Bioapplications <b>2017</b> , 359-377	
30	Silicon-Based Nanoparticles for Drug Delivery <b>2017</b> , 379-402	
29	Dendritic-Polymer-Based Nanomaterials for Cancer Diagnosis and Therapy <b>2017</b> , 403-428	
28	Biosafety of Carbon-Based Nanoparticles and Nanocomposites <b>2017</b> , 431-458	1
27	Clinical Translation and Safety Regulation of Nanobiomaterials <b>2017</b> , 459-479	1
26	Metallic Nanobiomaterials <b>2017</b> , 39-63	2
25	Polymeric Nanobiomaterials <b>2017</b> , 65-84	
24	Carbon-Based Nanobiomaterials <b>2017</b> , 85-104	1
23	Molecular Self-Assembly for Nanobiomaterial Fabrication <b>2017</b> , 107-141	
22	Electrospraying and Electrospinning for Nanobiomaterial Fabrication <b>2017</b> , 143-163	3
21	Layer-by-Layer Technique: From Capsule Assembly to Application in Biological Domains <b>2017</b> , 165-187	
20	Nanopatterning Techniques <b>2017</b> , 189-210	2

19	Surface Modification of Metallic Implants with Nanotubular Arrays via Electrochemical Anodization <b>2017</b> , 211-238		0
18	Fabrication of Antimicrobial Peptide-Loaded PLGA/Chitosan Composite Microspheres for Long-Acting Bacterial Resistance. <i>Molecules</i> , <b>2017</b> , 22,	4.8	29
17	Controlled Synthesis of Fe <sub>3</sub> O <sub>4</sub> Single Crystalline Spheres in One Solvothermal System and Their Application in MRI. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2017</b> , 17, 1983-1991	1.3	5
16	Photoinduced Mild Hyperthermia and Synergistic Chemotherapy by One-Pot-Synthesized Docetaxel-Loaded Poly(lactic-co-glycolic acid)/Polypyrrole Nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 24445-54	9.5	31
15	Capsaicin and dihydrocapsaicin induce apoptosis in human glioma cells via ROS and Ca <sup>2+</sup> -mediated mitochondrial pathway. <i>Molecular Medicine Reports</i> , <b>2016</b> , 14, 4198-4208	2.9	20
14	Lighting up the PEGylation agents via the Hantzsch reaction. <i>Polymer Chemistry</i> , <b>2016</b> , 7, 523-528	4.9	11
13	Multistimuli-Regulated Photochemothermal Cancer Therapy Remotely Controlled via Fe <sub>5</sub> C <sub>2</sub> Nanoparticles. <i>ACS Nano</i> , <b>2016</b> , 10, 159-69	16.7	114
12	A Tumor-specific MicroRNA Recognition System Facilitates the Accurate Targeting to Tumor Cells by Magnetic Nanoparticles. <i>Molecular Therapy - Nucleic Acids</i> , <b>2016</b> , 5, e318	10.7	14
11	Structural basis of human $\beta$ secretase assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 6003-8	11.5	88
10	Borneol-grafted cellulose for antifungal adhesion and fungal growth inhibition. <i>RSC Advances</i> , <b>2015</b> , 5, 51947-51952	3.7	23
9	Photothermal Therapy: Multifunctional Fe <sub>5</sub> C <sub>2</sub> Nanoparticles: A Targeted Theranostic Platform for Magnetic Resonance Imaging and Photoacoustic Tomography-Guided Photothermal Therapy (Adv. Mater. 24/2014). <i>Advanced Materials</i> , <b>2014</b> , 26, 4187-4187	24	
8	In vitro investigation on the magnetic thermochemotherapy mediated by magnetic nanoparticles combined with methotrexate for breast cancer treatment. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2013</b> , 13, 741-5	1.3	9
7	Magnetic-mediated hyperthermia for cancer treatment: Research progress and clinical trials. <i>Chinese Physics B</i> , <b>2013</b> , 22, 108104	1.2	34
6	Surface-Modification Superparamagnetic Nanoparticles for Highly-Efficient Intracellular Hyperthermia. <i>International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering</i> , <b>2010</b> ,		1
5	Pullulan acetate coated magnetite nanoparticles for hyper-thermia: Preparation, characterization and in vitro experiments. <i>Nano Research</i> , <b>2010</b> , 3, 23-31	10	72
4	Ultra-Sensitive Iron-Doped Palladium Nanocrystals with Enhanced Hydroxyl Radical Generation for Chemo-/Chemodynamic Nanotherapy. <i>Advanced Functional Materials</i> , 2107518	15.6	2
3	Synergetic Enhancement of Mechanical Properties for Silk Fibers by a Green Feeding Approach with Nano-hydroxyapatite/collagen Composite Additive. <i>Journal of Natural Fibers</i> , 1-11	1.8	1
2	Crosstalk between PC12 cells and endothelial cells in an artificial neurovascular niche constructed by a dual-functionalized self-assembling peptide nanofiber hydrogel. <i>Nano Research</i> , 1	10	5

1 Necroptosis-elicited host immunity: GOx-loaded MoS<sub>2</sub> nanocatalysts for self-amplified chemodynamic immunotherapy. *Nano Research*,1