

Lianbin Zhang

List of Publications by Year in descending order

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100
papers

9,001
citations

76326

40
h-index

40979

93
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114
all docs

114
docs citations

114
times ranked

10718
citing authors

#	ARTICLE	IF	CITATIONS
1	MXene Ti ₃ C ₂ : An Effective 2D Light-to-Heat Conversion Material. ACS Nano, 2017, 11, 3752-3759.	14.6	1,258
2	Hydrophobic Light-to-Heat Conversion Membranes with Self-Healing Ability for Interfacial Solar Heating. Advanced Materials, 2015, 27, 4889-4894.	21.0	821
3	Plasmonic Gold Nanocrystals Coupled with Photonic Crystal Seamlessly on TiO ₂ Nanotube Photoelectrodes for Efficient Visible Light Photoelectrochemical Water Splitting. Nano Letters, 2013, 13, 14-20.	9.1	692
4	Smart surfaces with switchable superoleophilicity and superoleophobicity in aqueous media: toward controllable oil/water separation. NPG Asia Materials, 2012, 4, e8-e8.	7.9	441
5	Self-Floating Carbon Nanotube Membrane on Macroporous Silica Substrate for Highly Efficient Solar-Driven Interfacial Water Evaporation. ACS Sustainable Chemistry and Engineering, 2016, 4, 1223-1230.	6.7	440
6	Carbon-Layer-Protected Cuprous Oxide Nanowire Arrays for Efficient Water Reduction. ACS Nano, 2013, 7, 1709-1717.	14.6	380
7	Inkjet printing for direct micropatterning of a superhydrophobic surface: toward biomimetic fog harvesting surfaces. Journal of Materials Chemistry A, 2015, 3, 2844-2852.	10.3	293
8	Rational design of a bi-layered reduced graphene oxide film on polystyrene foam for solar-driven interfacial water evaporation. Journal of Materials Chemistry A, 2017, 5, 16212-16219.	10.3	259
9	A self-cleaning underwater superoleophobic mesh for oil-water separation. Scientific Reports, 2013, 3, 2326.	3.3	252
10	Solar-thermal conversion and thermal energy storage of graphene foam-based composites. Nanoscale, 2016, 8, 14600-14607.	5.6	179
11	Hyaluronic Acid-Based Dissolving Microneedle Patch Loaded with Methotrexate for Improved Treatment of Psoriasis. ACS Applied Materials & Interfaces, 2019, 11, 43588-43598.	8.0	179
12	Mechanically Stable Antireflection and Antifogging Coatings Fabricated by the Layer-by-Layer Deposition Process and Postcalcination. Langmuir, 2008, 24, 10851-10857.	3.5	176
13	Rational design of nanomaterials for water treatment. Nanoscale, 2015, 7, 17167-17194.	5.6	176
14	Three-dimensional assemblies of graphene prepared by a novel chemical reduction-induced self-assembly method. Nanoscale, 2012, 4, 7038.	5.6	171
15	A facile strategy for the fabrication of a bioinspired hydrophilic-superhydrophobic patterned surface for highly efficient fog-harvesting. Journal of Materials Chemistry A, 2015, 3, 18963-18969.	10.3	171
16	Layer-by-Layer Deposition of Poly(diallyldimethylammonium chloride) and Sodium Silicate Multilayers on Silica-Sphere-Coated Substrate—Facile Method to Prepare a Superhydrophobic Surface. Chemistry of Materials, 2007, 19, 948-953.	6.7	162
17	Metallosupramolecular Photonic Elastomers with Self-Healing Capability and Angle-Independent Color. Advanced Materials, 2019, 31, e1805496.	21.0	160
18	Remotely Controllable Liquid Marbles. Advanced Materials, 2012, 24, 4756-4760.	21.0	115

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19	Multifunctional Ag ₃ PO ₄ -rGO-Coated Textiles for Clean Water Production by Solar-Driven Evaporation, Photocatalysis, and Disinfection. ACS Applied Materials & Interfaces, 2020, 12, 6343-6350.	8.0	110
20	Responsive Block Copolymer Photonic Microspheres. Advanced Materials, 2018, 30, e1707344.	21.0	102
21	Salting-in Effect of Zwitterionic Polymer Hydrogel Facilitates Atmospheric Water Harvesting. , 2022, 4, 511-520.		94
22	Bioinspired hybrid patches with self-adhesive hydrogel and piezoelectric nanogenerator for promoting skin wound healing. Nano Research, 2020, 13, 2525-2533.	10.4	92
23	Layer-by-layer fabrication of broad-band superhydrophobic antireflection coatings in near-infrared region. Journal of Colloid and Interface Science, 2008, 319, 302-308.	9.4	91
24	A Centimeter-Scale Inorganic Nanoparticle Superlattice Monolayer with Non-Close-Packing and its High Performance in Memory Devices. Advanced Materials, 2018, 30, e1800595.	21.0	80
25	Surface-engineered triboelectric nanogenerator patches with drug loading and electrical stimulation capabilities: Toward promoting infected wounds healing. Nano Energy, 2021, 85, 106004.	16.0	68
26	Self-powered and photothermal electronic skin patches for accelerating wound healing. Nano Energy, 2022, 93, 106906.	16.0	64
27	Three-Dimensionally Structured Polypyrrole-Coated <i>Setaria viridis</i> Spike Composites for Efficient Solar Steam Generation. ACS Applied Materials & Interfaces, 2021, 13, 9027-9035.	8.0	63
28	Dopamine-Substituted Multidomain Peptide Hydrogel with Inherent Antimicrobial Activity and Antioxidant Capability for Infected Wound Healing. ACS Applied Materials & Interfaces, 2021, 13, 29380-29391.	8.0	63
29	Self-adhesive photothermal hydrogel films for solar-light assisted wound healing. Journal of Materials Chemistry B, 2019, 7, 3644-3651.	5.8	60
30	Supramolecular Photonic Elastomers with Brilliant Structural Colors and Broad-Spectrum Responsiveness. Advanced Functional Materials, 2020, 30, 2000008.	14.9	59
31	Bioinspired Colloidal Photonic Composites: Fabrications and Emerging Applications. Advanced Materials, 2022, 34, e2110488.	21.0	59
32	Efficient and Anisotropic Fog Harvesting on a Hybrid and Directional Surface. Advanced Materials Interfaces, 2017, 4, 1600801.	3.7	58
33	Moist-Induced Electricity Generation by Electrospun Cellulose Acetate Membranes with Optimized Porous Structures. ACS Applied Materials & Interfaces, 2020, 12, 57373-57381.	8.0	58
34	Responsive Photonic Hydrogel-Based Colorimetric Sensors for Detection of Aldehydes in Aqueous Solution. Langmuir, 2018, 34, 3987-3992.	3.5	55
35	Intelligent environmental nanomaterials. Environmental Science: Nano, 2018, 5, 811-836.	4.3	54
36	Dacarbazine-Loaded Hollow Mesoporous Silica Nanoparticles Grafted with Folic Acid for Enhancing Antimetastatic Melanoma Response. ACS Applied Materials & Interfaces, 2017, 9, 21673-21687.	8.0	53

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37	Responsive Photonic Crystal Microcapsules of Block Copolymers with Enhanced Monochromaticity. ACS Nano, 2020, 14, 16057-16064.	14.6	53
38	Sono/Photodynamic Nanomedicine-Elicited Cancer Immunotherapy. Advanced Functional Materials, 2021, 31, 2008061.	14.9	53
39	Are vacuum-filtrated reduced graphene oxide membranes symmetric?. Nanoscale, 2016, 8, 1108-1116.	5.6	50
40	BiVO ₄ and reduced graphene oxide composite hydrogels for solar-driven steam generation and decontamination of polluted water. Solar Energy Materials and Solar Cells, 2021, 222, 110952.	6.2	50
41	Polyethylenimine Hybrid Thin-Shell Hollow Mesoporous Silica Nanoparticles as Vaccine Self-Adjuvants for Cancer Immunotherapy. ACS Applied Materials & Interfaces, 2019, 11, 47798-47809.	8.0	48
42	Moebius strips of chiral block copolymers. Nature Communications, 2019, 10, 4090.	12.8	44
43	Bioinspired adhesive coatings from polyethylenimine and tannic acid complexes exhibiting antifogging, self-cleaning, and antibacterial capabilities. Journal of Colloid and Interface Science, 2021, 602, 406-414.	9.4	44
44	Composite Polyelectrolyte Photothermal Hydrogel with Anti-biofouling and Antibacterial Properties for the Real-World Application of Solar Steam Generation. ACS Applied Materials & Interfaces, 2022, 14, 16546-16557.	8.0	41
45	Recent progress in responsive photonic crystals of block copolymers. Journal of Materials Chemistry C, 2020, 8, 16633-16647.	5.5	39
46	Cationic Photothermal Hydrogels with Bacteria-Inhibiting Capability for Freshwater Production via Solar-Driven Steam Generation. ACS Applied Materials & Interfaces, 2021, 13, 37724-37733.	8.0	39
47	Layer-by-Layer Assembled Polyampholyte Microgel Films for Simultaneous Release of Anionic and Cationic Molecules. Langmuir, 2010, 26, 8187-8194.	3.5	38
48	Atmospheric Water Harvesting: Role of Surface Wettability and Edge Effect. Global Challenges, 2017, 1, 1700019.	3.6	38
49	On-demand release of CO ₂ from photothermal hydrogels for accelerating skin wound healing. Chemical Engineering Journal, 2021, 403, 126353.	12.7	38
50	Transdermal delivery of rapamycin with poor water-solubility by dissolving polymeric microneedles for anti-angiogenesis. Journal of Materials Chemistry B, 2020, 8, 928-934.	5.8	37
51	Tunable Photonic Microspheres of Comb-Like Supramolecules. Small, 2020, 16, e2001315.	10.0	37
52	Squaraine-based AIEgens for reversible mechanochromism, sensitive and selective hypochlorite detection and photostable far-red fluorescence cell imaging. Materials Chemistry Frontiers, 2020, 4, 2688-2696.	5.9	35
53	Enhanced <i>in vitro</i> efficacy for inhibiting hypertrophic scar by bleomycin-loaded dissolving hyaluronic acid microneedles. Journal of Materials Chemistry B, 2019, 7, 6604-6611.	5.8	33
54	Bioinspired Photonic Ionogels as Interactively Visual Ionic Skin with Optical and Electrical Synergy. Small, 2021, 17, e2103271.	10.0	33

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55	Gelatin-based photonic hydrogels for visual detection of pathogenic <i>Pseudomonas aeruginosa</i> . <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129137.	7.8	30
56	Enhanced CH ₄ yields by interfacial heating-induced hot water steam during photocatalytic CO ₂ reduction. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120635.	20.2	30
57	Polymer microneedles with interconnected porous structures via a phase inversion route for transdermal medical applications. <i>Journal of Materials Chemistry B</i> , 2020, 8, 2032-2039.	5.8	30
58	Kinetically Dependent Self-Assembly of Chiral Block Copolymers under 3D Confinement. <i>Macromolecules</i> , 2020, 53, 4214-4223.	4.8	28
59	Fluorescent Metallosupramolecular Elastomers for Fast and Ultrasensitive Humidity Sensing. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 39665-39673.	8.0	24
60	Photonic Hydrogels for Synergistic Visual Bacterial Detection and On-Site Photothermal Disinfection. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 5856-5866.	8.0	24
61	NIR-Light-Activated Ratiometric Fluorescent Hybrid Micelles for High Spatiotemporally Controlled Biological Imaging and Chemotherapy. <i>Small</i> , 2020, 16, e2005667.	10.0	23
62	Alginate hydrogel-coated syringe needles for rapid haemostasis of vessel and viscera puncture. <i>Biomaterials</i> , 2020, 249, 120019.	11.4	23
63	Dynamic regulation of photoluminescence based on mechanochromic photonic elastomers. <i>Chemical Engineering Journal</i> , 2021, 426, 131259.	12.7	23
64	Microneedle Patches with O ₂ Propellant for Deeply and Fast Delivering Photosensitizers: Towards Improved Photodynamic Therapy. <i>Advanced Science</i> , 2022, 9, .	11.2	23
65	Patterning Layered Polymeric Multilayer Films by Room-Temperature Nanoimprint Lithography. <i>Macromolecular Rapid Communications</i> , 2006, 27, 505-510.	3.9	20
66	Self-healing and recyclable photonic elastomers based on a water soluble supramolecular polymer. <i>Materials Chemistry Frontiers</i> , 2019, 3, 2707-2715.	5.9	20
67	Ferroptosis-apoptosis combined anti-melanoma immunotherapy with a NIR-responsive upconverting mSiO ₂ photodynamic platform. <i>Chemical Engineering Journal</i> , 2021, 419, 129557.	12.7	20
68	Gold nanoparticle-guarded large-pore mesoporous silica nanocomposites for delivery and controlled release of cytochrome c. <i>Journal of Colloid and Interface Science</i> , 2021, 589, 34-44.	9.4	19
69	3D confined assembly of polymer-tethered gold nanoparticles into size-segregated structures. <i>Materials Chemistry Frontiers</i> , 2019, 3, 209-215.	5.9	18
70	Shape-Anisotropic Diblock Copolymer Particles with Varied Internal Structures. <i>Langmuir</i> , 2019, 35, 3461-3469.	3.5	18
71	Self-Assembled Colloidal Nanopatterns toward Unnatural Optical Meta-Materials. <i>Advanced Functional Materials</i> , 2021, 31, 2008246.	14.9	17
72	Shape memory photonic gels enable reversible regulation of photoluminescence: Towards multiple anti-counterfeiting. <i>Chemical Engineering Journal</i> , 2022, 446, 136879.	12.7	17

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73	Biodegradable Polymer Microparticles with Tunable Shapes and Surface Textures for Enhancement of Dendritic Cell Maturation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 42734-42743.	8.0	15
74	Revealable photonic prints with oppositely responsive polymers for improved visual sensing. <i>Journal of Materials Chemistry C</i> , 2020, 8, 9286-9292.	5.5	15
75	Hydrophilic and anti-adhesive modification of porous polymer microneedles for rapid dermal interstitial fluid extraction. <i>Journal of Materials Chemistry B</i> , 2021, 9, 5476-5483.	5.8	15
76	Solvent Quality-Mediated Regioselective Modification of Gold Nanorods with Thiol-Terminated Polymers. <i>Langmuir</i> , 2020, 36, 15162-15168.	3.5	15
77	Bioinspired Supramolecular Photonic Composites: Construction and Emerging Applications. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2100867.	3.9	14
78	Kinetically Controlled Self-Assembly of Block Copolymers into Segmented Wormlike Micelles in Microfluidic Chips. <i>Langmuir</i> , 2019, 35, 141-149.	3.5	13
79	Chain-length effect on binary superlattices of polymer-tethered nanoparticles. <i>Materials Chemistry Frontiers</i> , 2020, 4, 2089-2095.	5.9	13
80	Transparent photothermal hydrogels for wound visualization and accelerated healing. <i>Fundamental Research</i> , 2022, 2, 268-275.	3.3	13
81	An AIE-based metallo-supramolecular assembly enabling an indicator displacement assay inside living cells. <i>Chemical Communications</i> , 2018, 54, 8921-8924.	4.1	12
82	Bioinspired structural color nanocomposites with healable capability. <i>Polymer Chemistry</i> , 2020, 11, 6413-6422.	3.9	12
83	Drying and Nondrying Layer-by-Layer Assembly for the Fabrication of Sodium Silicate/TiO ₂ Nanoparticle Composite Films. <i>Langmuir</i> , 2012, 28, 1816-1823.	3.5	10
84	High switching uniformity in HfOx-based memristors by adding polydopamine-derived Ag nanoparticles on the electrode. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	9
85	Light-triggered disassembly of photo-responsive gold nanovesicles for controlled drug release. <i>Materials Chemistry Frontiers</i> , 2020, 4, 2805-2811.	5.9	8
86	Light-responsive bilayered hydrogel for freshwater production from surface soil moisture. <i>EcoMat</i> , 2021, 3, e12144.	11.9	8
87	Bioinspired Janus particles for hydrophobic modification of hydrogels with photothermal antibacterial capability. <i>Journal of Colloid and Interface Science</i> , 2022, 616, 93-100.	9.4	8
88	Hierarchical Microphase Behaviors of Chiral Block Copolymers under Kinetic and Thermodynamic Control. <i>CCS Chemistry</i> , 2022, 4, 2460-2468.	7.8	7
89	Photonic Crystal-Enhanced Photodynamic Antibacterial Therapy. <i>CCS Chemistry</i> , 2023, 5, 624-632.	7.8	7
90	Microfluidics-assisted optimization of highly adhesive haemostatic hydrogel coating for arterial puncture. <i>Bioactive Materials</i> , 2022, 12, 133-142.	15.6	6

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91	Application of hydrogel patches to the upper margins of N95 respirators as a novel antifog measure for goggles: A prospective, self-controlled study. <i>Journal of the American Academy of Dermatology</i> , 2020, 83, 1539-1541.	1.2	5
92	Shaping Block Copolymer Microparticles by pH-Responsive Core-Cross-Linked Polymeric Nanoparticles. <i>Langmuir</i> , 2021, 37, 454-460.	3.5	5
93	Flow hydrodynamics-dependent assembly of polymer-tethered gold nanoparticles in microfluidic channels. <i>Materials Chemistry Frontiers</i> , 2020, 4, 3240-3250.	5.9	4
94	Flow-Induced Micellar Morphological Transformation in Microfluidic Chips under Nonequilibrium State: From Aggregates to Spherical Micelles. <i>Langmuir</i> , 2020, 36, 5377-5384.	3.5	4
95	Generation of Aligned Electrospun Fibers by Using Insulating and Hydrophobic Collectors. <i>ACS Applied Polymer Materials</i> , 2020, 2, 2151-2159.	4.4	4
96	Kinetic Control of Length and Morphology of Segmented Polymeric Nanofibers in Microfluidic Chips. <i>Langmuir</i> , 2020, 36, 13364-13370.	3.5	4
97	Structure-Controlled Preparation of Multicompartment Micelles with Tunable Emission through Hydrodynamics-Dependent Self-Assembly in Microfluidic Chips. <i>Langmuir</i> , 2021, 37, 13099-13106.	3.5	2
98	Shaping Block Copolymer Microparticles by Positively Charged Polymeric Nanoparticles. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2200143.	3.9	1
99	Self-Assembled Colloidal Nanopatterns: Self-Assembled Colloidal Nanopatterns toward Unnatural Optical Meta-Materials (<i>Adv. Funct. Mater.</i> 12/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170080.	14.9	0
100	CHAPTER 6. Biomimetic Materials for Efficient Atmospheric Water Collection. <i>RSC Smart Materials</i> , 2016, , 165-184.	0.1	0