Lianbin Zhang

List of Publications by Year
in descending order

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100	9,001	76326 40	40979 93
papers	citations	h-index	g-index

114	114	114	10718
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Photonic Crystal-Enhanced Photodynamic Antibacterial Therapy. CCS Chemistry, 2023, 5, 624-632.	7.8	7
2	Hierarchical Microphase Behaviors of Chiral Block Copolymers under Kinetic and Thermodynamic Control. CCS Chemistry, 2022, 4, 2460-2468.	7.8	7
3	Transparent photothermal hydrogels for wound visualization and accelerated healing. Fundamental Research, 2022, 2, 268-275.	3.3	13
4	Microfluidics-assisted optimization of highly adhesive haemostatic hydrogel coating for arterial puncture. Bioactive Materials, 2022, 12, 133-142.	15.6	6
5	Self-powered and photothermal electronic skin patches for accelerating wound healing. Nano Energy, 2022, 93, 106906.	16.0	64
6	Photonic Hydrogels for Synergistic Visual Bacterial Detection and On-Site Photothermal Disinfection. ACS Applied Materials & Interfaces, 2022, 14, 5856-5866.	8.0	24
7	Salting-in Effect of Zwitterionic Polymer Hydrogel Facilitates Atmospheric Water Harvesting. , 2022, 4, 511-520.		94
8	Bioinspired Supramolecular Photonic Composites: Construction and Emerging Applications. Macromolecular Rapid Communications, 2022, 43, e2100867.	3.9	14
9	Bioinspired Colloidal Photonic Composites: Fabrications and Emerging Applications. Advanced Materials, 2022, 34, e2110488.	21.0	59
10	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
11	Shaping Block Copolymer Microparticles by Positively Charged Polymeric Nanoparticles. Macromolecular Rapid Communications, 2022, 43, e2200143.	3.9	1
12	Bioinspired Janus particles for hydrophobic modification of hydrogels with photothermal antibacterial capability. Journal of Colloid and Interface Science, 2022, 616, 93-100.	9.4	8
13	Shape memory photonic gels enable reversible regulation of photoluminescence: Towards multiple anti-counterfeiting. Chemical Engineering Journal, 2022, 446, 136879.	12.7	17
14	Microneedle Patches with O₂ Propellant for Deeply and Fast Delivering Photosensitizers: Towards Improved Photodynamic Therapy. Advanced Science, 2022, 9, .	11.2	23
15	On-demand release of CO2 from photothermal hydrogels for accelerating skin wound healing. Chemical Engineering Journal, 2021, 403, 126353.	12.7	38
16	Selfâ€Assembled Colloidal Nanopatterns toward Unnatural Optical Metaâ€Materials. Advanced Functional Materials, 2021, 31, 2008246.	14.9	17
17	Gelatin-based photonic hydrogels for visual detection of pathogenic Pseudomonas aeruginosa. Sensors and Actuators B: Chemical, 2021, 329, 129137.	7.8	30
18	Hydrophilic and anti-adhesive modification of porous polymer microneedles for rapid dermal interstitial fluid extraction. Journal of Materials Chemistry B, 2021, 9, 5476-5483.	5.8	15

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19	Three-Dimensionally Structured Polypyrrole-Coated Setaria viridis Spike Composites for Efficient Solar Steam Generation. ACS Applied Materials & Interfaces, 2021, 13, 9027-9035.	8.0	63
20	Selfâ€Assembled Colloidal Nanopatterns: Selfâ€Assembled Colloidal Nanopatterns toward Unnatural Optical Metaâ€Materials (Adv. Funct. Mater. 12/2021). Advanced Functional Materials, 2021, 31, 2170080.	14.9	0
21	BiVO4 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
22	High switching uniformity in HfOx-based memristors by adding polydopamine-derived Ag nanoparticles on the electrode. Applied Physics Letters, 2021, 118, .	3.3	9
23	Gold nanoparticle-guarded large-pore mesoporous silica nanocomposites for delivery and controlled release of cytochrome c. Journal of Colloid and Interface Science, 2021, 589, 34-44.	9.4	19
24	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
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	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
27	Bioinspired Photonic Ionogels as Interactively Visual Ionic Skin with Optical and Electrical Synergy. Small, 2021, 17, e2103271.	10.0	33
28	Ferroptosis-apoptosis combined anti-melanoma immunotherapy with a NIR-responsive upconverting mSiO2 photodynamic platform. Chemical Engineering Journal, 2021, 419, 129557.	12.7	20
29	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
30	Dynamic regulation of photoluminescence based on mechanochromic photonic elastomers. Chemical Engineering Journal, 2021, 426, 131259.	12.7	23
31	Enhanced CH4 yields by interfacial heating-induced hot water steam during photocatalytic CO2 reduction. Applied Catalysis B: Environmental, 2021, 298, 120635.	20.2	30
32	Sono/Photodynamic Nanomedicineâ€Elicited Cancer Immunotherapy. Advanced Functional Materials, 2021, 31, 2008061.	14.9	53
33	Shaping Block Copolymer Microparticles by pH-Responsive Core-Cross-Linked Polymeric Nanoparticles. Langmuir, 2021, 37, 454-460.	3.5	5
34	Lightâ€responsive bilayered hydrogel for freshwater production from surface soil moisture. EcoMat, 2021, 3, e12144.	11.9	8
35	Structure-Controlled Preparation of Multicompartment Micelles with Tunable Emission through Hydrodynamics-Dependent Self-Assembly in Microfluidic Chips. Langmuir, 2021, 37, 13099-13106.	3.5	2
36	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

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37	Bioinspired structural color nanocomposites with healable capability. Polymer Chemistry, 2020, 11, 6413-6422.	3.9	12
38	Application of hydrogel patches to the upper margins of N95 respirators as a novel antifog measure for goggles: A prospective, self-controlled study. Journal of the American Academy of Dermatology, 2020, 83, 1539-1541.	1.2	5
39	NIRâ€Lightâ€Activated Ratiometric Fluorescent Hybrid Micelles for High Spatiotemporally Controlled Biological Imaging and Chemotherapy. Small, 2020, 16, e2005667.	10.0	23
40	Recent progress in responsive photonic crystals of block copolymers. Journal of Materials Chemistry C, 2020, 8, 16633-16647.	5.5	39
41	Responsive Photonic Crystal Microcapsules of Block Copolymers with Enhanced Monochromaticity. ACS Nano, 2020, 14, 16057-16064.	14.6	53
42	Light-triggered disassembly of photo-responsive gold nanovesicles for controlled drug release. Materials Chemistry Frontiers, 2020, 4, 2805-2811.	5.9	8
43	Flow hydrodynamics-dependent assembly of polymer-tethered gold nanoparticles in microfluidic channels. Materials Chemistry Frontiers, 2020, 4, 3240-3250.	5.9	4
44	Fluorescent Metallosupramolecular Elastomers for Fast and Ultrasensitive Humidity Sensing. ACS Applied Materials & Interfaces, 2020, 12, 39665-39673.	8.0	24
45	Moist-Induced Electricity Generation by Electrospun Cellulose Acetate Membranes with Optimized Porous Structures. ACS Applied Materials & Interfaces, 2020, 12, 57373-57381.	8.0	58
46	Flow-Induced Micellar Morphological Transformation in Microfluidic Chips under Nonequilibrium State: From Aggregates to Spherical Micelles. Langmuir, 2020, 36, 5377-5384.	3.5	4
47	Kinetically Dependent Self-Assembly of Chiral Block Copolymers under 3D Confinement. Macromolecules, 2020, 53, 4214-4223.	4.8	28
48	Generation of Aligned Electrospun Fibers by Using Insulating and Hydrophobic Collectors. ACS Applied Polymer Materials, 2020, 2, 2151-2159.	4.4	4
49	Chain-length effect on binary superlattices of polymer-tethered nanoparticles. Materials Chemistry Frontiers, 2020, 4, 2089-2095.	5.9	13
50	Revealable photonic prints with oppositely responsive polymers for improved visual sensing. Journal of Materials Chemistry C, 2020, 8, 9286-9292.	5.5	15
51	Tunable Photonic Microspheres of Combâ€Like Supramolecules. Small, 2020, 16, e2001315.	10.0	37
52	Bioinspired hybrid patches with self-adhesive hydrogel and piezoelectric nanogenerator for promoting skin wound healing. Nano Research, 2020, 13, 2525-2533.	10.4	92
53	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
54	Supramolecular Photonic Elastomers with Brilliant Structural Colors and Broadâ€Spectrum Responsiveness. Advanced Functional Materials, 2020, 30, 2000008.	14.9	59

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55	Multifunctional Ag₃PO₄-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
56	Alginate hydrogel-coated syringe needles for rapid haemostasis of vessel and viscera puncture. Biomaterials, 2020, 249, 120019.	11.4	23
57	Solvent Quality-Mediated Regioselective Modification of Gold Nanorods with Thiol-Terminated Polymers. Langmuir, 2020, 36, 15162-15168.	3.5	15
58	Polymer microneedles with interconnected porous structuresviaa phase inversion route for transdermal medical applications. Journal of Materials Chemistry B, 2020, 8, 2032-2039.	5.8	30
59	Kinetic Control of Length and Morphology of Segmented Polymeric Nanofibers in Microfluidic Chips. Langmuir, 2020, 36, 13364-13370.	3.5	4
60	Metallosupramolecular Photonic Elastomers with Selfâ€Healing Capability and Angleâ€Independent Color. Advanced Materials, 2019, 31, e1805496.	21.0	160
61	Biodegradable Polymer Microparticles with Tunable Shapes and Surface Textures for Enhancement of Dendritic Cell Maturation. ACS Applied Materials & Interfaces, 2019, 11, 42734-42743.	8.0	15
62	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
63	Moebius strips of chiral block copolymers. Nature Communications, 2019, 10, 4090.	12.8	44
64	3D confined assembly of polymer-tethered gold nanoparticles into size-segregated structures. Materials Chemistry Frontiers, 2019, 3, 209-215.	5.9	18
65	Self-adhesive photothermal hydrogel films for solar-light assisted wound healing. Journal of Materials Chemistry B, 2019, 7, 3644-3651.	5.8	60
66	Shape-Anisotropic Diblock Copolymer Particles with Varied Internal Structures. Langmuir, 2019, 35, 3461-3469.	3.5	18
67	Enhanced in vitro efficacy for inhibiting hypertrophic scar by bleomycin-loaded dissolving hyaluronic acid microneedles. Journal of Materials Chemistry B, 2019, 7, 6604-6611.	5.8	33
68	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
69	Self-healing and recyclable photonic elastomers based on a water soluble supramolecular polymer. Materials Chemistry Frontiers, 2019, 3, 2707-2715.	5.9	20
70	Kinetically Controlled Self-Assembly of Block Copolymers into Segmented Wormlike Micelles in Microfluidic Chips. Langmuir, 2019, 35, 141-149.	3.5	13
71	Responsive Block Copolymer Photonic Microspheres. Advanced Materials, 2018, 30, e1707344.	21.0	102
72	Intelligent environmental nanomaterials. Environmental Science: Nano, 2018, 5, 811-836.	4.3	54

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73	Responsive Photonic Hydrogel-Based Colorimetric Sensors for Detection of Aldehydes in Aqueous Solution. Langmuir, 2018, 34, 3987-3992.	3.5	55
74	A Centimeterâ€Scale Inorganic Nanoparticle Superlattice Monolayer with Nonâ€Closeâ€Packing and its High Performance in Memory Devices. Advanced Materials, 2018, 30, e1800595.	21.0	80
75	An AIE-based metallo-supramolecular assembly enabling an indicator displacement assay inside living cells. Chemical Communications, 2018, 54, 8921-8924.	4.1	12
76	Efficient and Anisotropic Fog Harvesting on a Hybrid and Directional Surface. Advanced Materials Interfaces, 2017, 4, 1600801.	3.7	58
77	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
78	MXene Ti₃C₂: An Effective 2D Light-to-Heat Conversion Material. ACS Nano, 2017, 11, 3752-3759.	14.6	1,258
79	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
80	Atmospheric Water Harvesting: Role of Surface Wettability and Edge Effect. Global Challenges, 2017, 1, 1700019.	3.6	38
81	Solar-thermal conversion and thermal energy storage of graphene foam-based composites. Nanoscale, 2016, 8, 14600-14607.	5.6	179
82	Are vacuum-filtrated reduced graphene oxide membranes symmetric?. Nanoscale, 2016, 8, 1108-1116.	5.6	50
83	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
84	CHAPTER 6. Biomimetic Materials for Efficient Atmospheric Water Collection. RSC Smart Materials, 2016, , 165-184.	0.1	0
85	Hydrophobic Lightâ€toâ€Heat Conversion Membranes with Selfâ€Healing Ability for Interfacial Solar Heating. Advanced Materials, 2015, 27, 4889-4894.	21.0	821
86	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
87	A facile strategy for the fabrication of a bioinspired hydrophilicâ€“superhydrophobic patterned surface for highly efficient fog-harvesting. Journal of Materials Chemistry A, 2015, 3, 18963-18969.	10.3	171
88	Rational design of nanomaterials for water treatment. Nanoscale, 2015, 7, 17167-17194.	5.6	176
89	A self-cleaning underwater superoleophobic mesh for oil-water separation. Scientific Reports, 2013, 3, 2326.	3.3	252
90	Plasmonic Gold Nanocrystals Coupled with Photonic Crystal Seamlessly on TiO₂ Nanotube Photoelectrodes for Efficient Visible Light Photoelectrochemical Water Splitting. Nano Letters, 2013, 13, 14-20.	9.1	692

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91	Carbon-Layer-Protected Cuprous Oxide Nanowire Arrays for Efficient Water Reduction. ACS Nano, 2013, 7, 1709-1717.	14.6	380
92	Three-dimensional assemblies of graphene prepared by a novel chemical reduction-induced self-assembly method. Nanoscale, 2012, 4, 7038.	5.6	171
93	Drying and Nondrying Layer-by-Layer Assembly for the Fabrication of Sodium Silicate/TiO₂ Nanoparticle Composite Films. Langmuir, 2012, 28, 1816-1823.	3.5	10
94	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
95	Remotely Controllable Liquid Marbles. Advanced Materials, 2012, 24, 4756-4760.	21.0	115
96	Layer-by-Layer Assembled Polyampholyte Microgel Films for Simultaneous Release of Anionic and Cationic Molecules. Langmuir, 2010, 26, 8187-8194.	3.5	38
97	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
98	Mechanically Stable Antireflection and Antifogging Coatings Fabricated by the Layer-by-Layer Deposition Process and Postcalcination. Langmuir, 2008, 24, 10851-10857.	3.5	176
99	Layer-by-Layer Deposition of Poly(diallyldimethylammonium chloride) and Sodium Silicate Multilayers on Silica-Sphere-Coated Substrateâ€"Facile Method to Prepare a Superhydrophobic Surface. Chemistry of Materials, 2007, 19, 948-953.	6.7	162
100	Patterning Layered Polymeric Multilayer Films by Room-Temperature Nanoimprint Lithography. Macromolecular Rapid Communications, 2006, 27, 505-510.	3.9	20