Luoran Shang

List of Publications by Year
in descending order

99 papers	7,188 citations	57758 44 h-index	56724 83 g-index
100 all docs	100 docs citations	100 times ranked	6258 citing authors

#	Article	IF	Citations
1	Emerging Droplet Microfluidics. Chemical Reviews, 2017, 117, 7964-8040.	47.7	1,109
2	Bioinspired living structural color hydrogels. Science Robotics, 2018, 3, .	17.6	444
3	Spherical Colloidal Photonic Crystals. Accounts of Chemical Research, 2014, 47, 3632-3642.	15.6	341
4	Bio-inspired self-healing structural color hydrogel. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5900-5905.	7.1	248
5	Bioinspired Helical Microfibers from Microfluidics. Advanced Materials, 2017, 29, 1605765.	21.0	222
6	Bioinspired Multicompartmental Microfibers from Microfluidics. Advanced Materials, 2014, 26, 5184-5190.	21.0	218
7	Bio-inspired intelligent structural color materials. Materials Horizons, 2019, 6, 945-958.	12.2	213
8	Bioinspired shape-memory graphene film with tunable wettability. Science Advances, 2017, 3, e1700004.	10.3	210
9	Microfluidic Synthesis of Barcode Particles for Multiplex Assays. Small, 2015, 11, 151-174.	10.0	181
10	Design of capillary microfluidics for spinning cell-laden microfibers. Nature Protocols, 2018, 13, 2557-2579.	12.0	152
11	Spinning and Applications of Bioinspired Fiber Systems. ACS Nano, 2019, 13, 2749-2772.	14.6	151
12	Bioinspired structural color patch with anisotropic surface adhesion. Science Advances, 2020, 6, eaax8258.	10.3	150
13	Microfluidic Lithography of Bioinspired Helical Micromotors. Angewandte Chemie - International Edition, 2017, 56, 12127-12131.	13.8	126
14	Bioinspired Heterogeneous Structural Color Stripes from Capillaries. Advanced Materials, 2017, 29, 1704569.	21.0	123
15	Controlled Fabrication of Bioactive Microfibers for Creating Tissue Constructs Using Microfluidic Techniques. ACS Applied Materials & Interfaces, 2016, 8, 1080-1086.	8.0	119
16	Photonic Crystal Microbubbles as Suspension Barcodes. Journal of the American Chemical Society, 2015, 137, 15533-15539.	13.7	117
17	Tunable Structural Color Surfaces with Visually Selfâ€Reporting Wettability. Advanced Functional Materials, 2016, 26, 7937-7942.	14.9	109
18	Cells Cultured on Coreâ€“Shell Photonic Crystal Barcodes for Drug Screening. ACS Applied Materials & Interfaces, 2016, 8, 13840-13848.	8.0	102

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19	Bioinspired Multifunctional Spindleâ€Knotted Microfibers from Microfluidics. Small, 2017, 13, 1600286.	10.0	101
20	Bio-inspired clamping microneedle arrays from flexible ferrofluid-configured moldings. Science Bulletin, 2019, 64, 1110-1117.	9.0	98
21	Microfluidic generation of magnetoresponsive Janus photonic crystal particles. Nanoscale, 2013, 5, 9553.	5.6	96
22	Microfluidics for Drug Development: From Synthesis to Evaluation. Chemical Reviews, 2021, 121, 7468-7529.	47.7	95
23	Multifunctional inverse opal particles for drug delivery and monitoring. Nanoscale, 2015, 7, 10590-10594.	5.6	93
24	Bioâ€Inspired Anisotropic Wettability Surfaces from Dynamic Ferrofluid Assembled Templates. Advanced Functional Materials, 2018, 28, 1705802.	14.9	76
25	Composite core-shell microparticles from microfluidics for synergistic drug delivery. Science China Materials, 2017, 60, 543-553.	6.3	74
26	Suction Cupsâ€Inspired Adhesive Patch with Tailorable Patterns for Versatile Wound Healing. Advanced Science, 2021, 8, e2100201.	11.2	66
27	Enzymatic Inverse Opal Hydrogel Particles for Biocatalyst. ACS Applied Materials & Interfaces, 2017, 9, 12914-12918.	8.0	65
28	Microfluidics for flexible electronics. Materials Today, 2021, 44, 105-135.	14.2	65
29	Photonic Crystal Encoded Microcarriers for Biomaterial Evaluation. Small, 2014, 10, 88-93.	10.0	62
30	Cholesteric Cellulose Liquid Crystals with Multifunctional Structural Colors. Advanced Functional Materials, 2022, 32, 2107242.	14.9	61
31	Microfluidic Generation of Porous Particles Encapsulating Spongy Graphene for Oil Absorption. Small, 2015, 11, 3890-3895.	10.0	60
32	Structural Color Patterns by Electrohydrodynamic Jet Printed Photonic Crystals. ACS Applied Materials & Interfaces, 2017, 9, 11933-11941.	8.0	60
33	Chinese herb microneedle patch for wound healing. Bioactive Materials, 2021, 6, 3507-3514.	15.6	60
34	Double emulsions from a capillary array injection microfluidic device. Lab on A Chip, 2014, 14, 3489.	6.0	59
35	Microfluidic 3D Printing Responsive Scaffolds with Biomimetic Enrichment Channels for Bone Regeneration. Advanced Functional Materials, 2021, 31, 2105190.	14.9	59
36	Hierarchically Molecular Imprinted Porous Particles for Biomimetic Kidney Cleaning. Advanced Materials, 2020, 32, e2005394.	21.0	58

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37	Bio-inspired stimuli-responsive graphene oxide fibers from microfluidics. Journal of Materials Chemistry A, 2017, 5, 15026-15030.	10.3	54
38	Boronate affinity molecularly imprinted inverse opal particles for multiple label-free bioassays. Chemical Communications, 2016, 52, 3296-3299.	4.1	53
39	Bio-inspired wettability patterns for biomedical applications. Materials Horizons, 2021, 8, 124-144.	12.2	52
40	Structural Color Materials from Natural Polymers. Advanced Materials Technologies, 2021, 6, .	5.8	52
41	Tailoring Materials with Specific Wettability in Biomedical Engineering. Advanced Science, 2021, 8, e2100126.	11.2	52
42	Microfluidic generation of Buddha beads-like microcarriers for cell culture. Science China Materials, 2017, 60, 857-865.	6.3	49
43	Structural color materials in evolution. Materials Today, 2016, 19, 420-421.	14.2	46
44	Pollen-inspired microparticles with strong adhesion for drug delivery. Applied Materials Today, 2018, 13, 303-309.	4.3	46
45	A photonic crystal hydrogel suspension array for the capture of blood cells from whole blood. Nanoscale, 2016, 8, 3841-3847.	5.6	44
46	Hollow Colloid Assembled Photonic Crystal Clusters as Suspension Barcodes for Multiplex Bioassays. Small, 2019, 15, e1900056.	10.0	43
47	Living Materials for Regenerative Medicine. Engineered Regeneration, 2021, 2, 96-104.	6.0	43
48	Multicolored photonic barcodes from dynamic micromolding. Materials Horizons, 2018, 5, 979-983.	12.2	40
49	Dual-Core Prebiotic Microcapsule Encapsulating Probiotics for Metabolic Syndrome. ACS Applied Materials & Interfaces, 2020, 12, 42586-42594.	8.0	40
50	Microfluidic Lithography of Bioinspired Helical Micromotors. Angewandte Chemie, 2017, 129, 12295-12299.	2.0	37
51	Bioinspired Perovskite Nanocrystalsâ€Integrated Photonic Crystal Microsphere Arrays for Information Security. Advanced Science, 2022, 9, e2105278.	11.2	36
52	Droplet microfluidics-based biomedical microcarriers. Acta Biomaterialia, 2022, 138, 21-33.	8.3	35
53	Antibacterial Structural Color Hydrogels. ACS Applied Materials & Interfaces, 2017, 9, 38901-38907.	8.0	34
54	Advances of droplet-based microfluidics in drug discovery. Expert Opinion on Drug Discovery, 2020, 15, 969-979.	5.0	34

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55	Droplet-Templated Synthetic Cells. Matter, 2021, 4, 95-115.	10.0	33
56	Living Materials for Life Healthcare. Accounts of Materials Research, 2021, 2, 59-70.	11.7	30
57	Osmotic pressure-triggered cavitation in microcapsules. Lab on A Chip, 2016, 16, 251-255.	6.0	29
58	Oxygen-carrying microfluidic microcapsules for enhancing chemo-sonodynamic therapy on patient-derived tumor organoid models. Chemical Engineering Journal, 2022, 435, 134871.	12.7	29
59	Natural polysaccharide based complex drug delivery system from microfluidic electrospray for wound healing. Applied Materials Today, 2021, 23, 101000.	4.3	28
60	Cheerios Effect Inspired Microbubbles as Suspended and Adhered Oral Delivery Systems. Advanced Science, 2021, 8, 2004184.	11.2	27
61	Photothermal Responsive Microspheresâ€Triggered Separable Microneedles for Versatile Drug Delivery. Advanced Functional Materials, 2022, 32, .	14.9	27
62	Programmable microfluidic manipulations for biomedical applications. Engineered Regeneration, 2022, 3, 258-261.	6.0	26
63	A Versatile Strategy to Fabricate 3D Conductive Frameworks for Lithium Metal Anodes. Advanced Materials Interfaces, 2018, 5, 1800807.	3.7	25
64	An Interfacial Layer Based on Polymers of Intrinsic Microporosity to Suppress Dendrite Growth on Li Metal Anodes. Chemistry - A European Journal, 2019, 25, 12052-12057.	3.3	24
65	Boston Ivy-Inspired Disc-Like Adhesive Microparticles for Drug Delivery. Research, 2021, 2021, 9895674.	5.7	24
66	Responsive Janus Structural Color Hydrogel Micromotors for Label-Free Multiplex Assays. Research, 2021, 2021, 9829068.	5.7	24
67	Dynamically Responsive Scaffolds from Microfluidic 3D Printing for Skin Flap Regeneration. Advanced Science, 2022, 9, .	11.2	23
68	Cholesteric cellulose liquid crystal ink for three-dimensional structural coloration. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	23
69	Microfluidic Generation of Bioinspired Spindleâ€knotted Graphene Microfibers for Oil Absorption. ChemPhysChem, 2018, 19, 1990-1994.	2.1	22
70	Graphene and Graphene Oxide for Tissue Engineering and Regeneration. , 2019, , 165-185.		22
71	Multiplexed CRISPR/Cas9 quantifications based on bioinspired photonic barcodes. Nano Today, 2021, 40, 101268.	11.9	21
72	Cellular fluidic-based vascular networks for tissue engineering. Engineered Regeneration, 2021, 2, 171-174.	6.0	21

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73	Thriving microfluidic technology. Science Bulletin, 2021, 66, 9-12.	9.0	20
74	Pollens derived magnetic porous particles for adsorption of low-density lipoprotein from plasma. Bioactive Materials, 2021, 6, 1555-1562.	15.6	19
75	Nano-imprinted anisotropic structural color graphene films for cardiomyocytes dynamic displaying. Materials Today, 2021, 51, 117-125.	14.2	19
76	Biomimic Trained Immunityâ€MSCs Delivery Microcarriers for Acute Liver Failure Regeneration. Small, 2022, 18, e2200858.	10.0	18
77	Gravityâ€Induced Bubble Ripening in Porous Media and Its Impact on Capillary Trapping Stability. Geophysical Research Letters, 2019, 46, 13804-13813.	4.0	17
78	Microfluidic droplet templates derived porous patch with anisotropic wettability. Chemical Engineering Journal, 2021, 417, 128073.	12.7	16
79	Spatial confinement toward creating artificial living systems. Chemical Society Reviews, 2022, 51, 4075-4093.	38.1	16
80	Smart Film Actuators for Biomedical Applications. Small, 2022, 18, e2105116.	10.0	15
81	Responsive photonic alginate hydrogel particles for the quantitative detection of alkaline phosphatase. NPG Asia Materials, 2022, 14, .	7.9	15
82	Programmable Knot Microfibers from Piezoelectric Microfluidics. Small, 2022, 18, e2104309.	10.0	14
83	Microfluidic Generation of Multicomponent Soft Biomaterials. Engineering, 2022, 13, 128-143.	6.7	14
84	Structural color barcodes for biodiagnostics. View, 2020, 1, e8.	5.3	13
85	Quantum dots integrated biomass pollens as functional multicolor barcodes. Chemical Engineering Journal, 2020, 395, 125106.	12.7	12
86	Bio-inspired self-replenishing and self-reporting slippery surfaces from colloidal co-assembly templates. Chemical Engineering Journal, 2021, 426, 131641.	12.7	12
87	Porous carbon nanotube microspheres with tailorable surface wettability areas for oil adsorption. Journal of Colloid and Interface Science, 2021, 604, 737-745.	9.4	12
88	Spiny pollen-based antigen-presenting clusters for promoting T cells expansion. Chemical Engineering Journal, 2022, 437, 135374.	12.7	12
89	Colorimetric photonic tongue for metal ions screening. Matter, 2022, 5, 1590-1602.	10.0	8
90	Smart ingestible devices: Orally delivering macromolecules and beyond. Matter, 2021, 4, 3379-3381.	10.0	6

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91	Hierarchical magnetic nanoparticles for highly effective capture of small extracellular vesicles. Journal of Colloid and Interface Science, 2022, 615, 408-416.	9.4	6
92	Tiny water droplet with huge power. Science Bulletin, 2020, 65, 693-695.	9.0	5
93	Twisted fiber batteries for wearable electronic devices. Smart Materials in Medicine, 2022, 3, 1-3.	6.7	5
94	Developing sensor materials for screening intestinal diseases. Materials Futures, 2022, 1, 022401.	8.4	5
95	Biohybrid materials: Structure design and biomedical applications. Materials Today Bio, 2022, 16, 100352.	5.5	5
96	Surface-textured polymer microspheres generated through interfacial instabilities of microfluidic droplets for cell capture. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 084701.	0.5	3
97	Microfluidic single-cell coating with defined chemomechanical cues for cell therapy. Science Bulletin, 2021, 66, 2434-2434.	9.0	1
98	Oil Absorption: Microfluidic Generation of Porous Particles Encapsulating Spongy Graphene for Oil Absorption (Small 32/2015). Small, 2015, 11, 3842-3842.	10.0	0
99	Inorganic matter can act life-like active transport. Engineered Regeneration, 2021, 2, 227-229.	6.0	0