

# Luoran Shang

## List of Publications by Year in descending order

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99  
papers

7,188  
citations

66250

44  
h-index

64407

83  
g-index

100  
all docs

100  
docs citations

100  
times ranked

7146  
citing authors

#	ARTICLE	IF	CITATIONS
1	Droplet microfluidics-based biomedical microcarriers. <i>Acta Biomaterialia</i> , 2022, 138, 21-33.	4.1	35
2	Twisted fiber batteries for wearable electronic devices. <i>Smart Materials in Medicine</i> , 2022, 3, 1-3.	3.7	5
3	Programmable Knot Microfibers from Piezoelectric Microfluidics. <i>Small</i> , 2022, 18, e2104309.	5.2	14
4	Cholesteric Cellulose Liquid Crystals with Multifunctional Structural Colors. <i>Advanced Functional Materials</i> , 2022, 32, 2107242.	7.8	61
5	Bioinspired Perovskite Nanocrystalsâ€Integrated Photonic Crystal Microsphere Arrays for Information Security. <i>Advanced Science</i> , 2022, 9, e2105278.	5.6	36
6	Smart Film Actuators for Biomedical Applications. <i>Small</i> , 2022, 18, e2105116.	5.2	15
7	Developing sensor materials for screening intestinal diseases. <i>Materials Futures</i> , 2022, 1, 022401.	3.1	5
8	Hierarchical magnetic nanoparticles for highly effective capture of small extracellular vesicles. <i>Journal of Colloid and Interface Science</i> , 2022, 615, 408-416.	5.0	6
9	Oxygen-carrying microfluidic microcapsules for enhancing chemo-sonodynamic therapy on patient-derived tumor organoid models. <i>Chemical Engineering Journal</i> , 2022, 435, 134871.	6.6	29
10	Colorimetric photonic tongue for metal ions screening. <i>Matter</i> , 2022, 5, 1590-1602.	5.0	8
11	Spiny pollen-based antigen-presenting clusters for promoting T cells expansion. <i>Chemical Engineering Journal</i> , 2022, 437, 135374.	6.6	12
12	Photothermal Responsive Microspheresâ€Triggered Separable Microneedles for Versatile Drug Delivery. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	27
13	Biomimic Trained Immunityâ€MSCs Delivery Microcarriers for Acute Liver Failure Regeneration. <i>Small</i> , 2022, 18, e2200858.	5.2	18
14	Spatial confinement toward creating artificial living systems. <i>Chemical Society Reviews</i> , 2022, 51, 4075-4093.	18.7	16
15	Microfluidic Generation of Multicomponent Soft Biomaterials. <i>Engineering</i> , 2022, 13, 128-143.	3.2	14
16	Dynamically Responsive Scaffolds from Microfluidic 3D Printing for Skin Flap Regeneration. <i>Advanced Science</i> , 2022, 9, .	5.6	23
17	Cholesteric cellulose liquid crystal ink for three-dimensional structural coloration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	23
18	Responsive photonic alginate hydrogel particles for the quantitative detection of alkaline phosphatase. <i>NPG Asia Materials</i> , 2022, 14, .	3.8	15

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19	Programmable microfluidic manipulations for biomedical applications. <i>Engineered Regeneration</i> , 2022, 3, 258-261.	3.0	26
20	Biohybrid materials: Structure design and biomedical applications. <i>Materials Today Bio</i> , 2022, 16, 100352.	2.6	5
21	Thriving microfluidic technology. <i>Science Bulletin</i> , 2021, 66, 9-12.	4.3	20
22	Microfluidic droplet templates derived porous patch with anisotropic wettability. <i>Chemical Engineering Journal</i> , 2021, 417, 128073.	6.6	16
23	Living Materials for Life Healthcare. <i>Accounts of Materials Research</i> , 2021, 2, 59-70.	5.9	30
24	Pollens derived magnetic porous particles for adsorption of low-density lipoprotein from plasma. <i>Bioactive Materials</i> , 2021, 6, 1555-1562.	8.6	19
25	Bio-inspired wettability patterns for biomedical applications. <i>Materials Horizons</i> , 2021, 8, 124-144.	6.4	52
26	Living Materials for Regenerative Medicine. <i>Engineered Regeneration</i> , 2021, 2, 96-104.	3.0	43
27	Cheerios Effect Inspired Microbubbles as Suspended and Adhered Oral Delivery Systems. <i>Advanced Science</i> , 2021, 8, 2004184.	5.6	27
28	Microfluidics for flexible electronics. <i>Materials Today</i> , 2021, 44, 105-135.	8.3	65
29	Microfluidics for Drug Development: From Synthesis to Evaluation. <i>Chemical Reviews</i> , 2021, 121, 7468-7529.	23.0	95
30	Boston Ivy-Inspired Disc-Like Adhesive Microparticles for Drug Delivery. <i>Research</i> , 2021, 2021, 9895674.	2.8	24
31	Natural polysaccharide based complex drug delivery system from microfluidic electrospray for wound healing. <i>Applied Materials Today</i> , 2021, 23, 101000.	2.3	28
32	Structural Color Materials from Natural Polymers. <i>Advanced Materials Technologies</i> , 2021, 6, .	3.0	52
33	Suction Cups-Inspired Adhesive Patch with Tailorable Patterns for Versatile Wound Healing. <i>Advanced Science</i> , 2021, 8, e2100201.	5.6	66
34	Microfluidic 3D Printing Responsive Scaffolds with Biomimetic Enrichment Channels for Bone Regeneration. <i>Advanced Functional Materials</i> , 2021, 31, 2105190.	7.8	59
35	Bio-inspired self-replenishing and self-reporting slippery surfaces from colloidal co-assembly templates. <i>Chemical Engineering Journal</i> , 2021, 426, 131641.	6.6	12
36	Microfluidic single-cell coating with defined chemomechanical cues for cell therapy. <i>Science Bulletin</i> , 2021, 66, 2434-2434.	4.3	1

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37	Tailoring Materials with Specific Wettability in Biomedical Engineering. <i>Advanced Science</i> , 2021, 8, e2100126.	5.6	52
38	Chinese herb microneedle patch for wound healing. <i>Bioactive Materials</i> , 2021, 6, 3507-3514.	8.6	60
39	Multiplexed CRISPR/Cas9 quantifications based on bioinspired photonic barcodes. <i>Nano Today</i> , 2021, 40, 101268.	6.2	21
40	Porous carbon nanotube microspheres with tailorable surface wettability areas for oil adsorption. <i>Journal of Colloid and Interface Science</i> , 2021, 604, 737-745.	5.0	12
41	Droplet-Templated Synthetic Cells. <i>Matter</i> , 2021, 4, 95-115.	5.0	33
42	Cellular fluidic-based vascular networks for tissue engineering. <i>Engineered Regeneration</i> , 2021, 2, 171-174.	3.0	21
43	Nano-imprinted anisotropic structural color graphene films for cardiomyocytes dynamic displaying. <i>Materials Today</i> , 2021, 51, 117-125.	8.3	19
44	Smart ingestible devices: Orally delivering macromolecules and beyond. <i>Matter</i> , 2021, 4, 3379-3381.	5.0	6
45	Responsive Janus Structural Color Hydrogel Micromotors for Label-Free Multiplex Assays. <i>Research</i> , 2021, 2021, 9829068.	2.8	24
46	Inorganic matter can act life-like active transport. <i>Engineered Regeneration</i> , 2021, 2, 227-229.	3.0	0
47	Hierarchically Molecular Imprinted Porous Particles for Biomimetic Kidney Cleaning. <i>Advanced Materials</i> , 2020, 32, e2005394.	11.1	58
48	Dual-Core Prebiotic Microcapsule Encapsulating Probiotics for Metabolic Syndrome. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 42586-42594.	4.0	40
49	Structural color barcodes for biodiagnostics. <i>View</i> , 2020, 1, e8.	2.7	13
50	Quantum dots integrated biomass pollens as functional multicolor barcodes. <i>Chemical Engineering Journal</i> , 2020, 395, 125106.	6.6	12
51	Tiny water droplet with huge power. <i>Science Bulletin</i> , 2020, 65, 693-695.	4.3	5
52	Bioinspired structural color patch with anisotropic surface adhesion. <i>Science Advances</i> , 2020, 6, eaax8258.	4.7	150
53	Advances of droplet-based microfluidics in drug discovery. <i>Expert Opinion on Drug Discovery</i> , 2020, 15, 969-979.	2.5	34
54	Surface-textured polymer microspheres generated through interfacial instabilities of microfluidic droplets for cell capture. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020, 69, 084701.	0.2	3

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55	An Interfacial Layer Based on Polymers of Intrinsic Microporosity to Suppress Dendrite Growth on Li Metal Anodes. <i>Chemistry - A European Journal</i> , 2019, 25, 12052-12057.	1.7	24
56	Bio-inspired clamping microneedle arrays from flexible ferrofluid-configured moldings. <i>Science Bulletin</i> , 2019, 64, 1110-1117.	4.3	98
57	Graphene and Graphene Oxide for Tissue Engineering and Regeneration. , 2019, , 165-185.		22
58	Hollow Colloid Assembled Photonic Crystal Clusters as Suspension Barcodes for Multiplex Bioassays. <i>Small</i> , 2019, 15, e1900056.	5.2	43
59	Bio-inspired intelligent structural color materials. <i>Materials Horizons</i> , 2019, 6, 945-958.	6.4	213
60	Spinning and Applications of Bioinspired Fiber Systems. <i>ACS Nano</i> , 2019, 13, 2749-2772.	7.3	151
61	Gravity-Induced Bubble Ripening in Porous Media and Its Impact on Capillary Trapping Stability. <i>Geophysical Research Letters</i> , 2019, 46, 13804-13813.	1.5	17
62	Bioinspired living structural color hydrogels. <i>Science Robotics</i> , 2018, 3, .	9.9	444
63	Microfluidic Generation of Bioinspired Spindle-Knotted Graphene Microfibers for Oil Absorption. <i>ChemPhysChem</i> , 2018, 19, 1990-1994.	1.0	22
64	Bio-Inspired Anisotropic Wettability Surfaces from Dynamic Ferrofluid Assembled Templates. <i>Advanced Functional Materials</i> , 2018, 28, 1705802.	7.8	76
65	Pollen-inspired microparticles with strong adhesion for drug delivery. <i>Applied Materials Today</i> , 2018, 13, 303-309.	2.3	46
66	Design of capillary microfluidics for spinning cell-laden microfibers. <i>Nature Protocols</i> , 2018, 13, 2557-2579.	5.5	152
67	A Versatile Strategy to Fabricate 3D Conductive Frameworks for Lithium Metal Anodes. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800807.	1.9	25
68	Multicolored photonic barcodes from dynamic micromolding. <i>Materials Horizons</i> , 2018, 5, 979-983.	6.4	40
69	Bioinspired Multifunctional Spindle-Knotted Microfibers from Microfluidics. <i>Small</i> , 2017, 13, 1600286.	5.2	101
70	Structural Color Patterns by Electrohydrodynamic Jet Printed Photonic Crystals. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 11933-11941.	4.0	60
71	Composite core-shell microparticles from microfluidics for synergistic drug delivery. <i>Science China Materials</i> , 2017, 60, 543-553.	3.5	74
72	Bioinspired Helical Microfibers from Microfluidics. <i>Advanced Materials</i> , 2017, 29, 1605765.	11.1	222

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73	Bio-inspired self-healing structural color hydrogel. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5900-5905.	3.3	248
74	Emerging Droplet Microfluidics. Chemical Reviews, 2017, 117, 7964-8040.	23.0	1,109
75	Enzymatic Inverse Opal Hydrogel Particles for Biocatalyst. ACS Applied Materials & Interfaces, 2017, 9, 12914-12918.	4.0	65
76	Antibacterial Structural Color Hydrogels. ACS Applied Materials & Interfaces, 2017, 9, 38901-38907.	4.0	34
77	Bioinspired Heterogeneous Structural Color Stripes from Capillaries. Advanced Materials, 2017, 29, 1704569.	11.1	123
78	Microfluidic generation of Buddha beads-like microcarriers for cell culture. Science China Materials, 2017, 60, 857-865.	3.5	49
79	Microfluidic Lithography of Bioinspired Helical Micromotors. Angewandte Chemie - International Edition, 2017, 56, 12127-12131.	7.2	126
80	Bio-inspired stimuli-responsive graphene oxide fibers from microfluidics. Journal of Materials Chemistry A, 2017, 5, 15026-15030.	5.2	54
81	Microfluidic Lithography of Bioinspired Helical Micromotors. Angewandte Chemie, 2017, 129, 12295-12299.	1.6	37
82	Bioinspired shape-memory graphene film with tunable wettability. Science Advances, 2017, 3, e1700004.	4.7	210
83	Cells Cultured on Core-Shell Photonic Crystal Barcodes for Drug Screening. ACS Applied Materials & Interfaces, 2016, 8, 13840-13848.	4.0	102
84	Tunable Structural Color Surfaces with Visually Self-Reporting Wettability. Advanced Functional Materials, 2016, 26, 7937-7942.	7.8	109
85	Structural color materials in evolution. Materials Today, 2016, 19, 420-421.	8.3	46
86	Boronate affinity molecularly imprinted inverse opal particles for multiple label-free bioassays. Chemical Communications, 2016, 52, 3296-3299.	2.2	53
87	A photonic crystal hydrogel suspension array for the capture of blood cells from whole blood. Nanoscale, 2016, 8, 3841-3847.	2.8	44
88	Controlled Fabrication of Bioactive Microfibers for Creating Tissue Constructs Using Microfluidic Techniques. ACS Applied Materials & Interfaces, 2016, 8, 1080-1086.	4.0	119
89	Osmotic pressure-triggered cavitation in microcapsules. Lab on A Chip, 2016, 16, 251-255.	3.1	29
90	Oil Absorption: Microfluidic Generation of Porous Particles Encapsulating Spongy Graphene for Oil Absorption (Small 32/2015). Small, 2015, 11, 3842-3842.	5.2	0

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91	Multifunctional inverse opal particles for drug delivery and monitoring. <i>Nanoscale</i> , 2015, 7, 10590-10594.	2.8	93
92	Photonic Crystal Microbubbles as Suspension Barcodes. <i>Journal of the American Chemical Society</i> , 2015, 137, 15533-15539.	6.6	117
93	Microfluidic Generation of Porous Particles Encapsulating Spongy Graphene for Oil Absorption. <i>Small</i> , 2015, 11, 3890-3895.	5.2	60
94	Microfluidic Synthesis of Barcode Particles for Multiplex Assays. <i>Small</i> , 2015, 11, 151-174.	5.2	181
95	Photonic Crystal Encoded Microcarriers for Biomaterial Evaluation. <i>Small</i> , 2014, 10, 88-93.	5.2	62
96	Double emulsions from a capillary array injection microfluidic device. <i>Lab on A Chip</i> , 2014, 14, 3489.	3.1	59
97	Spherical Colloidal Photonic Crystals. <i>Accounts of Chemical Research</i> , 2014, 47, 3632-3642.	7.6	341
98	Bioinspired Multicompartmental Microfibers from Microfluidics. <i>Advanced Materials</i> , 2014, 26, 5184-5190.	11.1	218
99	Microfluidic generation of magneto-responsive Janus photonic crystal particles. <i>Nanoscale</i> , 2013, 5, 9553.	2.8	96