

Bingbing Gao

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

1,768
citations

279798

23
h-index

289244

40
g-index

57
all docs

57
docs citations

57
times ranked

2233
citing authors

#	ARTICLE	IF	CITATIONS
1	3D Printing of Bioinspired Liquid Superrepellent Structures. <i>Advanced Materials</i> , 2018, 30, e1800103.	21.0	135
2	Tunable Structural Color Surfaces with Visually Self-Reporting Wettability. <i>Advanced Functional Materials</i> , 2016, 26, 7937-7942.	14.9	109
3	Multiresponsive Elastic Colloidal Crystals for Reversible Structural Color Patterns. <i>Advanced Functional Materials</i> , 2019, 29, 1902954.	14.9	100
4	Shark Tooth-Inspired Microneedle Dressing for Intelligent Wound Management. <i>ACS Nano</i> , 2021, 15, 15316-15327.	14.6	97
5	Multifunctional Wearable Sensing Devices Based on Functionalized Graphene Films for Simultaneous Monitoring of Physiological Signals and Volatile Organic Compound Biomarkers. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 11785-11793.	8.0	85
6	Piezoelectric-Driven Self-Powered Patterned Electrochromic Supercapacitor for Human Motion Energy Harvesting. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 1745-1752.	6.7	73
7	Bioinspired Kirigami Fish-Based Highly Stretched Wearable Biosensor for Human Biochemical Physiological Hybrid Monitoring. <i>Advanced Materials Technologies</i> , 2018, 3, 1700308.	5.8	69
8	Core/Shell Piezoelectric Nanofibers with Spatial Self-Orientated β -Phase Nanocrystals for Real-Time Micropressure Monitoring of Cardiovascular Walls. <i>ACS Nano</i> , 2019, 13, 10062-10073.	14.6	66
9	A Versatile Approach for Enzyme Immobilization Using Chemically Modified 3D-Printed Scaffolds. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 18048-18054.	6.7	66
10	Patterned Photonic Nitrocellulose for Pseudo-Paper Microfluidics. <i>Analytical Chemistry</i> , 2016, 88, 5424-5429.	6.5	64
11	Intelligent Silk Fibroin Based Microneedle Dressing (iNSMD). <i>Advanced Functional Materials</i> , 2021, 31, 2006839.	14.9	56
12	Advances of Microfluidics in Biomedical Engineering. <i>Advanced Materials Technologies</i> , 2019, 4, 1800663.	5.8	53
13	Patterned Photonic Nitrocellulose for Pseudopaper ELISA. <i>Analytical Chemistry</i> , 2017, 89, 7727-7733.	6.5	45
14	Wearable eye health monitoring sensors based on peacock tail-inspired inverse opal carbon. <i>Sensors and Actuators B: Chemical</i> , 2019, 288, 734-741.	7.8	43
15	UV-Triggered Polydopamine Secondary Modification: Fast Deposition and Removal of Metal Nanoparticles. <i>Advanced Functional Materials</i> , 2019, 29, 1901875.	14.9	40
16	Converting colour to length based on the coffee-ring effect for quantitative immunoassays using a ruler as readout. <i>Lab on A Chip</i> , 2018, 18, 271-275.	6.0	38
17	Emerging 3D Printing Strategies for Enzyme Immobilization: Materials, Methods, and Applications. <i>ACS Omega</i> , 2022, 7, 11530-11543.	3.5	37
18	Emerging paper microfluidic devices. <i>Analyst, The</i> , 2019, 144, 6497-6511.	3.5	33

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19	An exothermic chip for point-of-care testing using a forehead thermometer as a readout. <i>Lab on A Chip</i> , 2016, 16, 525-531.	6.0	30
20	Gecko-Inspired Paper Artificial Skin for Intimate Skin Contact and Multisensing. <i>Advanced Materials Technologies</i> , 2019, 4, 1800392.	5.8	30
21	Bioinspired multistructured paper microfluidics for POCT. <i>Lab on A Chip</i> , 2019, 19, 3602-3608.	6.0	29
22	Disposable <i>Morpho menelaus</i> Based Flexible Microfluidic and Electronic Sensor for the Diagnosis of Neurodegenerative Disease. <i>Advanced Healthcare Materials</i> , 2018, 7, 1701306.	7.6	28
23	Intelligent Patches for Wound Management: In Situ Sensing and Treatment. <i>Analytical Chemistry</i> , 2021, 93, 4687-4696.	6.5	28
24	Artificial Spider Silk Based Programmable Woven Textile for Efficient Wound Management. <i>Advanced Functional Materials</i> , 2022, 32, 2107707.	14.9	24
25	Bottom-Up Fabrication of Paper-Based Microchips by Blade Coating of Cellulose Microfibers on a Patterned Surface. <i>Langmuir</i> , 2014, 30, 15041-15046.	3.5	23
26	Fast Strategy to Functional Paper Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14445-14456.	8.0	23
27	Development of smart wearable sensors for life healthcare. <i>Engineered Regeneration</i> , 2021, 2, 163-170.	6.0	22
28	Personalized and Programmable Microneedle Dressing for Promoting Wound Healing. <i>Advanced Healthcare Materials</i> , 2022, 11, e2101659.	7.6	22
29	A bio-inspired photonic nitrocellulose array for ultrasensitive assays of single nucleic acids. <i>Analyst, The</i> , 2018, 143, 4559-4565.	3.5	21
30	Biomimetic Meta-Structured Electro-Microfluidics. <i>Advanced Functional Materials</i> , 2019, 29, 1906745.	14.9	21
31	3D printed smart silk wearable sensors. <i>Analyst, The</i> , 2021, 146, 1552-1558.	3.5	20
32	Transpiration-Inspired Fabrication of Opal Capillary with Multiple Heterostructures for Multiplex Aptamer-Based Fluorescent Assays. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 32577-32582.	8.0	19
33	Chitin-Based Anisotropic Nanostructures of Butterfly Wings for Regulating Cells Orientation. <i>Polymers</i> , 2017, 9, 386.	4.5	18
34	Visualized Quantitation of Trace Nucleic Acids Based on the Coffee-Ring Effect on Colloid-Crystal Substrates. <i>Langmuir</i> , 2019, 35, 248-253.	3.5	17
35	Specific immobilization of lipase on functionalized 3D printing scaffolds via enhanced hydrophobic interaction for efficient resolution of racemic 1-indanol. <i>Biochemical and Biophysical Research Communications</i> , 2021, 546, 111-117.	2.1	17
36	Emerging electrochemical sensors for life healthcare. <i>Engineered Regeneration</i> , 2021, 2, 175-181.	6.0	17

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37	Modern evolution of paper-based analytical devices for wearable use: from disorder to order. <i>Analyst, The</i> , 2020, 145, 5388-5399.	3.5	16
38	Vertical Paper Analytical Devices Fabricated Using the Principles of Quilling and Kirigami. <i>Scientific Reports</i> , 2017, 7, 7255.	3.3	15
39	TiO ₂ -Coated Silica Photonic Crystal Capillaries for Plasmon-Free SERS Analysis. <i>ACS Applied Nano Materials</i> , 2019, 2, 3177-3186.	5.0	15
40	Recent biomedical applications of bio-sourced materials. <i>Bio-Design and Manufacturing</i> , 2018, 1, 26-44.	7.7	13
41	Flourishing Smart Flexible Membranes Beyond Paper. <i>Analytical Chemistry</i> , 2019, 91, 4224-4234.	6.5	13
42	Ordered inverse-opal scaffold based on bionic transpiration to create a biomimetic spine. <i>Nanoscale</i> , 2021, 13, 8614-8622.	5.6	12
43	One-step 3D printed intelligent silk fibroin artificial skin with built-in electronics and microfluidics. <i>Analyst, The</i> , 2021, 146, 5934-5941.	3.5	10
44	SERS-based lateral flow immunoassay strip for ultrasensitive and quantitative detection of acrosomal protein SP10. <i>Microchemical Journal</i> , 2022, 175, 107191.	4.5	10
45	Effect of Isosteviol on Wheat Seed Germination and Seedling Growth under Cadmium Stress. <i>Plants</i> , 2021, 10, 1779.	3.5	9
46	Single-Step Fabrication of High-Throughput Surface-Enhanced Raman Scattering Substrates. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 4222-4232.	8.0	8
47	Hepatocyte Aggregate Formation on Chitin-Based Anisotropic Microstructures of Butterfly Wings. <i>Biomimetics</i> , 2018, 3, 2.	3.3	7
48	Liquid Superrepellents: 3D Printing of Bioinspired Liquid Superrepellent Structures (Adv. Mater.) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30</i>	21.0	5
49	Photo-adjustable TiO ₂ Paper as a Smart Substrate for Paper-based Analytical Devices. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	4
50	Wearable Biosensors: Disposable <i>Morpho menelaus</i> Based Flexible Microfluidic and Electronic Sensor for the Diagnosis of Neurodegenerative Disease (Adv. Healthcare Mater. 5/2018). <i>Advanced Healthcare Materials</i> , 2018, 7, 1870025.	7.6	3
51	Spidroin Composite Biomimetic Multifunctional Skin with Meta-Structure. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	3
52	Multiresponsive Nanoparticles: Multiresponsive Elastic Colloidal Crystals for Reversible Structural Color Patterns (Adv. Funct. Mater. 39/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970271.	14.9	2
53	Bioinspired transfer method for the patterning of multiple nanomaterials. <i>RSC Advances</i> , 2019, 9, 4351-4360.	3.6	2
54	Electro-microfluidics: Biomimetic Meta-Structured Electro-microfluidics (Adv. Funct. Mater. 51/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970349.	14.9	2

#	ARTICLE	IF	CITATIONS
55	Artificial biomimetic organism: next generation human-on-chips. Science Bulletin, 2020, 65, 1521-1523.	9.0	1
56	Polydopamine: UVâ€Triggered Polydopamine Secondary Modification: Fast Deposition and Removal of Metal Nanoparticles (Adv. Funct. Mater. 34/2019). Advanced Functional Materials, 2019, 29, 1970233.	14.9	0
57	Meta photonic crystal paper devices. Science China Technological Sciences, 2020, 63, 2464-2466.	4.0	0