

Bingbing Gao

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

1,768
citations

318942

23
h-index

325983

40
g-index

57
all docs

57
docs citations

57
times ranked

2542
citing authors

#	ARTICLE	IF	CITATIONS
1	Personalized and Programmable Microneedle Dressing for Promoting Wound Healing. <i>Advanced Healthcare Materials</i> , 2022, 11, e2101659.	3.9	22
2	Artificial Spider Silk Based Programmable Woven Textile for Efficient Wound Management. <i>Advanced Functional Materials</i> , 2022, 32, 2107707.	7.8	24
3	SERS-based lateral flow immunoassay strip for ultrasensitive and quantitative detection of acrosomal protein SP10. <i>Microchemical Journal</i> , 2022, 175, 107191.	2.3	10
4	Spidroin Composite Biomimetic Multifunctional Skin with Meta-Structure. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	3
5	Emerging 3D Printing Strategies for Enzyme Immobilization: Materials, Methods, and Applications. <i>ACS Omega</i> , 2022, 7, 11530-11543.	1.6	37
6	Photo-Adjustable TiO ₂ Paper as a Smart Substrate for Paper-Based Analytical Devices. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	4
7	Intelligent Silk Fibroin Based Microneedle Dressing (iSMD). <i>Advanced Functional Materials</i> , 2021, 31, 2006839.	7.8	56
8	3D printed smart silk wearable sensors. <i>Analyst, The</i> , 2021, 146, 1552-1558.	1.7	20
9	Ordered inverse-opal scaffold based on bionic transpiration to create a biomimetic spine. <i>Nanoscale</i> , 2021, 13, 8614-8622.	2.8	12
10	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.	1.0	17
11	Intelligent Patches for Wound Management: In Situ Sensing and Treatment. <i>Analytical Chemistry</i> , 2021, 93, 4687-4696.	3.2	28
12	Effect of Isosteviol on Wheat Seed Germination and Seedling Growth under Cadmium Stress. <i>Plants</i> , 2021, 10, 1779.	1.6	9
13	Shark Tooth-Inspired Microneedle Dressing for Intelligent Wound Management. <i>ACS Nano</i> , 2021, 15, 15316-15327.	7.3	97
14	One-step 3D printed intelligent silk fibroin artificial skin with built-in electronics and microfluidics. <i>Analyst, The</i> , 2021, 146, 5934-5941.	1.7	10
15	Development of smart wearable sensors for life healthcare. <i>Engineered Regeneration</i> , 2021, 2, 163-170.	3.0	22
16	Emerging electrochemical sensors for life healthcare. <i>Engineered Regeneration</i> , 2021, 2, 175-181.	3.0	17
17	Artificial biomimetic organism: next generation human-on-chips. <i>Science Bulletin</i> , 2020, 65, 1521-1523.	4.3	1
18	Meta photonic crystal paper devices. <i>Science China Technological Sciences</i> , 2020, 63, 2464-2466.	2.0	0

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19	Modern evolution of paper-based analytical devices for wearable use: from disorder to order. <i>Analyst, The</i> , 2020, 145, 5388-5399.	1.7	16
20	Polydopamine: UVâ€Triggered Polydopamine Secondary Modification: Fast Deposition and Removal of Metal Nanoparticles (<i>Adv. Funct. Mater.</i> 34/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970233.	7.8	0
21	Multiresponsive Elastic Colloidal Crystals for Reversible Structural Color Patterns. <i>Advanced Functional Materials</i> , 2019, 29, 1902954.	7.8	100
22	Multiresponsive Nanoparticles: Multiresponsive Elastic Colloidal Crystals for Reversible Structural Color Patterns (<i>Adv. Funct. Mater.</i> 39/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970271.	7.8	2
23	Biomimetic Metaâ€Structured Electroâ€Microfluidics. <i>Advanced Functional Materials</i> , 2019, 29, 1906745.	7.8	21
24	Core/Shell Piezoelectric Nanofibers with Spatial Self-Orientated Î²-Phase Nanocrystals for Real-Time Micropressure Monitoring of Cardiovascular Walls. <i>ACS Nano</i> , 2019, 13, 10062-10073.	7.3	66
25	A Versatile Approach for Enzyme Immobilization Using Chemically Modified 3D-Printed Scaffolds. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 18048-18054.	3.2	66
26	UVâ€Triggered Polydopamine Secondary Modification: Fast Deposition and Removal of Metal Nanoparticles. <i>Advanced Functional Materials</i> , 2019, 29, 1901875.	7.8	40
27	TiO ₂ -Coated Silica Photonic Crystal Capillaries for Plasmon-Free SERS Analysis. <i>ACS Applied Nano Materials</i> , 2019, 2, 3177-3186.	2.4	15
28	Flourishing Smart Flexible Membranes Beyond Paper. <i>Analytical Chemistry</i> , 2019, 91, 4224-4234.	3.2	13
29	Fast Strategy to Functional Paper Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14445-14456.	4.0	23
30	Wearable eye health monitoring sensors based on peacock tail-inspired inverse opal carbon. <i>Sensors and Actuators B: Chemical</i> , 2019, 288, 734-741.	4.0	43
31	Advances of Microfluidics in Biomedical Engineering. <i>Advanced Materials Technologies</i> , 2019, 4, 1800663.	3.0	53
32	Bioinspired transfer method for the patterning of multiple nanomaterials. <i>RSC Advances</i> , 2019, 9, 4351-4360.	1.7	2
33	Electroâ€Microfluidics: Biomimetic Metaâ€Structured Electroâ€Microfluidics (<i>Adv. Funct. Mater.</i> 51/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970349.	7.8	2
34	Emerging paper microfluidic devices. <i>Analyst, The</i> , 2019, 144, 6497-6511.	1.7	33
35	Bioinspired multistructured paper microfluidics for POCT. <i>Lab on A Chip</i> , 2019, 19, 3602-3608.	3.1	29
36	Visualized Quantitation of Trace Nucleic Acids Based on the Coffee-Ring Effect on Colloid-Crystal Substrates. <i>Langmuir</i> , 2019, 35, 248-253.	1.6	17

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37	Piezoelectric-Driven Self-Powered Patterned Electrochromic Supercapacitor for Human Motion Energy Harvesting. ACS Sustainable Chemistry and Engineering, 2019, 7, 1745-1752.	3.2	73
38	Gecko-Inspired Paper Artificial Skin for Intimate Skin Contact and Multisensing. Advanced Materials Technologies, 2019, 4, 1800392.	3.0	30
39	Wearable Biosensors: Disposable <i>Morpho menelaus</i> Based Flexible Microfluidic and Electronic Sensor for the Diagnosis of Neurodegenerative Disease (Adv. Healthcare Mater. 5/2018). Advanced Healthcare Materials, 2018, 7, 1870025.	3.9	3
40	3D Printing of Bioinspired Liquid Superrepellent Structures. Advanced Materials, 2018, 30, e1800103.	11.1	135
41	Disposable <i>Morpho menelaus</i> Based Flexible Microfluidic and Electronic Sensor for the Diagnosis of Neurodegenerative Disease. Advanced Healthcare Materials, 2018, 7, 1701306.	3.9	28
42	Bioinspired Kirigami Fish-Based Highly Stretched Wearable Biosensor for Human Biochemical Physiological Hybrid Monitoring. Advanced Materials Technologies, 2018, 3, 1700308.	3.0	69
43	Single-Step Fabrication of High-Throughput Surface-Enhanced Raman Scattering Substrates. ACS Applied Materials & Interfaces, 2018, 10, 4222-4232.	4.0	8
44	Recent biomedical applications of bio-sourced materials. Bio-Design and Manufacturing, 2018, 1, 26-44.	3.9	13
45	Multifunctional Wearable Sensing Devices Based on Functionalized Graphene Films for Simultaneous Monitoring of Physiological Signals and Volatile Organic Compound Biomarkers. ACS Applied Materials & Interfaces, 2018, 10, 11785-11793.	4.0	85
46	Converting colour to length based on the coffee-ring effect for quantitative immunoassays using a ruler as readout. Lab on A Chip, 2018, 18, 271-275.	3.1	38
47	Hepatocyte Aggregate Formation on Chitin-Based Anisotropic Microstructures of Butterfly Wings. Biomimetics, 2018, 3, 2.	1.5	7
48	Liquid Superrepellents: 3D Printing of Bioinspired Liquid Superrepellent Structures (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30	11.1	5
49	A bio-inspired photonic nitrocellulose array for ultrasensitive assays of single nucleic acids. Analyst, The, 2018, 143, 4559-4565.	1.7	21
50	Patterned Photonic Nitrocellulose for Pseudopaper ELISA. Analytical Chemistry, 2017, 89, 7727-7733.	3.2	45
51	Transpiration-Inspired Fabrication of Opal Capillary with Multiple Heterostructures for Multiplex Aptamer-Based Fluorescent Assays. ACS Applied Materials & Interfaces, 2017, 9, 32577-32582.	4.0	19
52	Vertical Paper Analytical Devices Fabricated Using the Principles of Quilling and Kirigami. Scientific Reports, 2017, 7, 7255.	1.6	15
53	Chitin-Based Anisotropic Nanostructures of Butterfly Wings for Regulating Cells Orientation. Polymers, 2017, 9, 386.	2.0	18
54	Patterned Photonic Nitrocellulose for Pseudo-Paper Microfluidics. Analytical Chemistry, 2016, 88, 5424-5429.	3.2	64

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55	Tunable Structural Color Surfaces with Visually Self-Reporting Wettability. <i>Advanced Functional Materials</i> , 2016, 26, 7937-7942.	7.8	109
56	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.	3.1	30
57	Bottom-Up Fabrication of Paper-Based Microchips by Blade Coating of Cellulose Microfibers on a Patterned Surface. <i>Langmuir</i> , 2014, 30, 15041-15046.	1.6	23