

Qiuquan Guo

List of Publications by Year in descending order

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75
papers

2,540
citations

236612

25
h-index

197535

49
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77
all docs

77
docs citations

77
times ranked

3896
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrathin low-frequency sound absorbing panels based on coplanar spiral tubes or coplanar Helmholtz resonators. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	305
2	Macroporous Double-Network Hydrogel for High-Efficiency Solar Steam Generation Under 1 sun Illumination. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10998-11007.	4.0	194
3	Synthesis of Ag@TiO ₂ composite nano thin film for antimicrobial application. <i>Nanotechnology</i> , 2011, 22, 115603.	1.3	192
4	3D printing of ionic conductors for high-sensitivity wearable sensors. <i>Materials Horizons</i> , 2019, 6, 767-780.	6.4	165
5	3D printed porous carbon anode for enhanced power generation in microbial fuel cell. <i>Nano Energy</i> , 2018, 44, 174-180.	8.2	151
6	Recyclable Polydopamine-Functionalized Sponge for High-Efficiency Clean Water Generation with Dual-Purpose Solar Evaporation and Contaminant Adsorption. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 32559-32568.	4.0	99
7	Fabrication of flexible copper-based electronics with high-resolution and high-conductivity on paper via inkjet printing. <i>Journal of Materials Chemistry C</i> , 2014, 2, 286-294.	2.7	97
8	Initiator-Integrated 3D Printing Enables the Formation of Complex Metallic Architectures. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 2583-2587.	4.0	95
9	i3DP, a robust 3D printing approach enabling genetic post-printing surface modification. <i>Chemical Communications</i> , 2013, 49, 10064.	2.2	90
10	A lab-on-CD prototype for high-speed blood separation. <i>Journal of Micromechanics and Microengineering</i> , 2008, 18, 125025.	1.5	82
11	Direct Pen Writing of Adhesive Particle-Free Ultrahigh Silver Salt-Loaded Composite Ink for Stretchable Circuits. <i>ACS Nano</i> , 2016, 10, 396-404.	7.3	78
12	Characterization of cell elasticity correlated with cell morphology by atomic force microscope. <i>Journal of Biomechanics</i> , 2012, 45, 304-309.	0.9	69
13	Tailoring of photocurable ionogel toward high resilience and low hysteresis 3D printed versatile porous flexible sensor. <i>Chemical Engineering Journal</i> , 2022, 439, 135593.	6.6	58
14	Micro-electromechanical film bulk acoustic sensor for plasma and whole blood coagulation monitoring. <i>Biosensors and Bioelectronics</i> , 2017, 91, 465-471.	5.3	56
15	3D-printed highly porous and reusable chitosan monoliths for Cu(II) removal. <i>Journal of Materials Science</i> , 2019, 54, 6728-6741.	1.7	50
16	3D Printing/Interfacial Polymerization Coupling for the Fabrication of Conductive Hydrogel. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1700356.	1.7	47
17	A high-flow, self-filling piezoelectric pump driven by hybrid connected multiple chambers with umbrella-shaped valves. <i>Sensors and Actuators B: Chemical</i> , 2019, 301, 126961.	4.0	46
18	Paintable 3D printed structures via a post-ATRP process with antimicrobial function for biomedical applications. <i>Journal of Materials Chemistry B</i> , 2013, 1, 6644.	2.9	41

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19	Bacterial nanowires: conductive as silicon, soft as polymer. <i>Soft Matter</i> , 2011, 7, 6617.	1.2	40
20	SU-8-Induced Strong Bonding of Polymer Ligands to Flexible Substrates via in Situ Cross-Linked Reaction for Improved Surface Metallization and Fast Fabrication of High-Quality Flexible Circuits. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4280-4286.	4.0	36
21	Highly thermal-stable and transparent silver nanowire conductive films via magnetic assisted electrodeposition of Ni. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4887-4894.	2.7	36
22	Modeling of electroosmotic pumping of nonconducting liquids and biofluids by a two-phase flow method. <i>Journal of Electroanalytical Chemistry</i> , 2009, 636, 86-92.	1.9	34
23	High-efficiency wireless power transfer system for 3D, unstationary free-positioning and multi-object charging. <i>IET Electric Power Applications</i> , 2018, 12, 658-665.	1.1	34
24	Improved Performance by SiO ₂ Hollow Nanospheres for Silver Nanowire-Based Flexible Transparent Conductive Films. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 27055-27063.	4.0	27
25	Film bulk acoustic formaldehyde sensor with polyethyleneimine-modified single-wall carbon nanotubes as sensitive layer. <i>Sensors and Actuators B: Chemical</i> , 2018, 266, 204-212.	4.0	27
26	A Switchable Bandpass Filter Employing RF MEMS Switches and Open-Ring Resonators. <i>IEEE Transactions on Electron Devices</i> , 2017, 64, 3377-3383.	1.6	26
27	An inkjet-printed smartphone-supported electrochemical biosensor system for reagentless point-of-care analyte detection. <i>Sensors and Actuators B: Chemical</i> , 2021, 346, 130447.	4.0	23
28	Direct ink writing of recyclable and in situ repairable photothermal polyurethane for sustainable 3D printing development. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6981-6992.	5.2	23
29	Controllable positioning and alignment of silver nanowires by tunable hydrodynamic focusing. <i>Nanotechnology</i> , 2011, 22, 125302.	1.3	20
30	Large-area freestanding gold nanomembranes with nanoholes. <i>Materials Horizons</i> , 2019, 6, 1005-1012.	6.4	20
31	Magnetic-actuated microcapillary container for versatile three-dimensional fluid interface manipulation. <i>Science Advances</i> , 2021, 7, .	4.7	19
32	Solvent-transfer assisted photolithography of high-density and high-aspect-ratio superhydrophobic micropillar arrays. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 025005.	1.5	16
33	High-Performance Flexible Micro-Supercapacitors Printed on Textiles for Powering Wearable Electronics. <i>ChemElectroChem</i> , 2021, 8, 1574-1579.	1.7	16
34	Hierarchical metal/polymer metamaterials of tunable negative Poisson's ratio fabricated by initiator-integrated 3D printing (i3DP). <i>Nanotechnology</i> , 2018, 29, 505704.	1.3	15
35	Initiator-Integrated 3-D Printing of Magnetic Object for Remote Controlling Application. <i>IEEE Transactions on Magnetism</i> , 2017, 53, 1-9.	1.2	13
36	Tunable Fluid-Type Metasurface for Wide-Angle and Multifrequency Water-Air Acoustic Transmission. <i>Research</i> , 2021, 2021, 9757943.	2.8	13

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37	Soluble salt-driven matrix swelling of a block copolymer for rapid fabrication of a conductive elastomer toward highly stretchable electronics. <i>Materials and Design</i> , 2016, 100, 263-270.	3.3	11
38	Pulsed ultraviolet light decontamination of virus-laden airstreams. <i>Aerosol Science and Technology</i> , 2017, 51, 554-563.	1.5	11
39	Optimization and calibration of atomic force microscopy sensitivity in terms of tip-sample interactions in high-order dynamic atomic force microscopy. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	10
40	Robust nonreciprocal acoustic propagation in a compact acoustic circulator empowered by natural convection. <i>New Journal of Physics</i> , 2019, 21, 053001.	1.2	10
41	Silver nanofibers with controllable microstructure and crystal facet as highly efficient and methanol-tolerant oxygen reduction electrocatalyst. <i>Journal of Power Sources</i> , 2019, 413, 233-240.	4.0	10
42	Real-time monitoring of human blood clotting using a lateral excited film bulk acoustic resonator. <i>Journal of Micromechanics and Microengineering</i> , 2017, 27, 045013.	1.5	9
43	Tunable acoustic valley edge states in a flow-free resonator system. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	9
44	The development of digital printing technologies for flexible electronics devices. <i>Science in China Series G: Physics, Mechanics and Astronomy</i> , 2016, 46, 044608.	0.2	9
45	Ultrasound-modulated microstructure of PbS film in ammonia-free chemical bath deposition. <i>RSC Advances</i> , 2015, 5, 10018-10025.	1.7	8
46	Improved stoichiometry and photoanode efficiency of thermally evaporated CdS film with quantum dots as precursor. <i>Nanotechnology</i> , 2015, 26, 335606.	1.3	8
47	Study of acoustic wave propagation in micro- and nanochannels. <i>Wave Motion</i> , 2018, 76, 51-60.	1.0	8
48	Development of ultralight, super-elastic, hierarchical metallic meta-structures with i3DP technology. <i>Nanotechnology</i> , 2017, 28, 455708.	1.3	7
49	Facile Fabrication of Hybrid Copper-Fiber Conductive Features with Enhanced Durability and Ultralow Sheet Resistance for Low-Cost High-Performance Paper-Based Electronics. <i>Advanced Sustainable Systems</i> , 2017, 1, 1700062.	2.7	7
50	Design and Performance of a J Band MEMS Switch. <i>Micromachines</i> , 2019, 10, 467.	1.4	7
51	Miniaturization of Floquet topological insulators for airborne acoustics by thermal control. <i>Applied Physics Letters</i> , 2019, 114, 054102.	1.5	7
52	Study of the Enzyme Activity Change due to Inkjet Printing for Biosensor Fabrication. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 787-793.	2.6	7
53	Shear Mode Bulk Acoustic Viscosity Sensor for Blood Coagulation Monitoring in Oral Anticoagulant Therapy. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 8099-8104.	0.9	6
54	Shear Mode Bulk Acoustic Resonator Based on Inclined c-Axis AlN Film for Monitoring of Human Hemostatic Parameters. <i>Micromachines</i> , 2018, 9, 501.	1.4	6

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55	An Economic Method for Large-Scale Patterning and Electric Measurement of Nanowires. Journal of Nanoelectronics and Optoelectronics, 2011, 6, 144-151.	0.1	6
56	Characterization of cross-linking depth for thin polymeric films using atomic force microscopy. Journal of Applied Polymer Science, 2015, 132, .	1.3	5
57	Introducing Bioinspired Initiator into Resins for In Situ Repairing of 3D-Printed Metallic Structures. ACS Applied Materials & Interfaces, 2020, 12, 49073-49079.	4.0	5
58	Oxygen modulation of flexible PbS/Pb Schottky junction PEC cells with improved photoelectric performance. Nanotechnology, 2016, 27, 355704.	1.3	4
59	Design of a relaying electroosmosis pump driven by low-voltage DC. Microsystem Technologies, 2009, 15, 1009-1015.	1.2	3
60	Particle focusing in a microchannel with acoustic metafluid. Applied Physics Letters, 2013, 103, 031901.	1.5	2
61	In situ growth of metal-sulfide film with solvent-free element-direct reaction: the case of PbS on ITO. RSC Advances, 2015, 5, 88141-88148.	1.7	2
62	Self-detached membranes with well-defined pore size, shape and distribution fabricated by underexposure photolithography. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2020, 38, .	0.6	2
63	3D Co-Printing of 3D Electronics with a Dual Light Source Technology. Advanced Materials Technologies, 2021, 6, 2100039.	3.0	2
64	3D printing of metallic structures using dopamine-integrated photopolymer. Journal of Materials Research and Technology, 2022, 19, 1355-1366.	2.6	2
65	A centrifugal Lab-in-a-tubing platform enabling automatic point-of-care blood diagnostics. , 2011, , .		1
66	Optical and piezoelectric properties of p-type ZnO nanowires on transparent flexible substrate for energy harvesting. Proceedings of SPIE, 2014, , .	0.8	1
67	Fabrication of Polymer@Metal Core-Shell $\pm 45^\circ$ Polarization Diversity Dipoles by Mussel-Inspired Surface Chemistry on 3-D Printed Objects. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2021, 11, 892-898.	1.4	1
68	A Highly Stable Electrode with Embedded Structure Formed through a Catalytically Oxidative Decomposition Mechanism. Advanced Materials Interfaces, 0, , 2200672.	1.9	1
69	Online Monitoring and Portable Analytical System with CMOS Sensor and Microfluidic Technology for Cell Cultivation Applications. , 2010, , .		0
70	Evaluation of intermolecular forces in a circulating system. BioSystems, 2011, 106, 130-135.	0.9	0
71	High-Performance Flexible Micro-Supercapacitors Printed on Textiles for Powering Wearable Electronics. ChemElectroChem, 2021, 8, 1540-1540.	1.7	0
72	3D Co-Printing of 3D Electronics with a Dual Light Source Technology (Adv. Mater. Technol. 9/2021). Advanced Materials Technologies, 2021, 6, 2170050.	3.0	0

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73	Manipulating a Micro Stream by "Hydro Tweezers"™ for Integration of Nanodevices. Lecture Notes in Computer Science, 2010, , 649-658.	1.0	0
74	Facile and Effective Phononic Structures for Ultrasound Focusing Application. , 2014, , .		0
75	Sensing Cell Mechanics with Atomic Force Microscopy. International Journal of Biosensors & Bioelectronics, 2017, 2, .	0.2	0