

Yu Liu

List of Publications by Year in descending order

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78
papers

2,499
citations

279487

23
h-index

205818

48
g-index

79
all docs

79
docs citations

79
times ranked

2861
citing authors

#	ARTICLE	IF	CITATIONS
1	Injection moulding of mechanical micro-manufactured structures for optically encoding plastic surfaces. <i>Optical Materials</i> , 2022, 123, 111822.	1.7	5
2	Rational Assembly of Liquid Metal/Elastomer Lattice Conductors for High-Performance and Strain-Invariant Stretchable Electronics. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	29
3	Arbitrary-shape-adaptable strain sensor array with optimized circuit layout via direct-ink-writing: Scalable design and hierarchical printing. <i>Materials and Design</i> , 2022, 214, 110388.	3.3	13
4	Design, analysis and evaluation of a self-lockable constant-force compliant gripper. <i>Sensors and Actuators A: Physical</i> , 2022, 335, 113354.	2.0	8
5	A Heating-Assisted Direct Ink Writing Method for Preparation of PDMS Cellular Structure with High Manufacturing Fidelity. <i>Polymers</i> , 2022, 14, 1323.	2.0	4
6	Direct ink writing of aluminium oxynitride (AlON) transparent ceramics from water-based slurries. <i>Ceramics International</i> , 2022, 48, 8118-8124.	2.3	8
7	Laser Direct Activation of Polyimide for Selective Electroless Plating of Flexible Conductive Patterns. <i>ACS Applied Electronic Materials</i> , 2022, 4, 2191-2202.	2.0	5
8	Fabrication of YAG ceramic tube by UV-assisted direct ink writing. <i>Ceramics International</i> , 2022, 48, 19703-19708.	2.3	10
9	Automated vision-based inspection of mould and part quality in soft tooling injection moulding using imaging and deep learning. <i>CIRP Annals - Manufacturing Technology</i> , 2022, 71, 429-432.	1.7	6
10	Studying Complex Evolution of Hyperelastic Materials under External Field Stimuli using Artificial Neural Networks with Spatiotemporal Features in a Small-Scale Dataset. <i>Advanced Materials</i> , 2022, 34, e2200908.	11.1	7
11	High-precision resistance strain sensors of multilayer composite structure via direct ink writing: Optimized layer flatness and interfacial strength. <i>Composites Science and Technology</i> , 2021, 201, 108530.	3.8	26
12	Highly stretchable graphene/polydimethylsiloxane composite lattices with tailored structure for strain-tolerant EMI shielding performance. <i>Composites Science and Technology</i> , 2021, 206, 108652.	3.8	39
13	Design and Fabrication of Flexible Capacitive Sensor With Cellular Structured Dielectric Layer via 3D Printing. <i>IEEE Sensors Journal</i> , 2021, 21, 10473-10482.	2.4	22
14	Relaxation of the requirements on loop height and heat transfer area of a passive heat removal system in integral SMR using a self-powered booster. <i>Annals of Nuclear Energy</i> , 2021, 162, 108539.	0.9	0
15	Multifunctional 3D printed porous GelMA/xanthan gum based dressing with biofilm control and wound healing activity. <i>Materials Science and Engineering C</i> , 2021, 131, 112493.	3.8	28
16	N-halamine modified ceria nanoparticles: Antibacterial response and accelerated wound healing application via a 3D printed scaffold. <i>Composites Part B: Engineering</i> , 2021, 227, 109390.	5.9	31
17	Fabrication of SiOC ceramic with cellular structure via UV-Assisted direct ink writing. <i>Ceramics International</i> , 2020, 46, 3637-3643.	2.3	32
18	Hybrid energy storage system design for mobile multi-material fused deposition modeling. <i>AIP Advances</i> , 2020, 10, 075322.	0.6	1

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19	3D printing of multi-scalable structures via high penetration near-infrared photopolymerization. <i>Nature Communications</i> , 2020, 11, 3462.	5.8	124
20	Selective coaxial ink 3D printing for single-pass fabrication of smart elastomeric foam with embedded stretchable sensor. <i>Additive Manufacturing</i> , 2020, 36, 101487.	1.7	10
21	Three dimensional core-shell structured liquid metal/elastomer composite via coaxial direct ink writing for electromagnetic interference shielding. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 136, 105957.	3.8	46
22	Conformable core-shell fiber tactile sensor by continuous tubular deposition modeling with water-based sacrificial coaxial writing. <i>Materials and Design</i> , 2020, 190, 108567.	3.3	28
23	Three-dimensionally printed polylactic acid/cellulose acetate scaffolds with antimicrobial effect. <i>RSC Advances</i> , 2020, 10, 2952-2958.	1.7	21
24	Quantitative calibration of conductive pattern growth via electroless copper plating at nano-resolution. <i>Surface Topography: Metrology and Properties</i> , 2020, 8, 035003.	0.9	1
25	3D-Printed Coaxial Fibers for Integrated Wearable Sensor Skin. <i>Advanced Materials Technologies</i> , 2019, 4, 1900504.	3.0	58
26	A facile preparation of flexible and porous reduced graphene oxide woven fabric/polydimethylsiloxane composites for EMI shielding. <i>Materials Research Express</i> , 2019, 6, 1050d4.	0.8	5
27	High-sensitive and stretchable resistive strain gauges: Parametric design and DIW fabrication. <i>Composite Structures</i> , 2019, 223, 110955.	3.1	20
28	A viscoelastic model for particle-reinforced composites in finite deformations. <i>Applied Mathematical Modelling</i> , 2019, 72, 499-512.	2.2	11
29	3D printed graphene/polydimethylsiloxane composite for stretchable strain sensor with tunable sensitivity. <i>Nanotechnology</i> , 2019, 30, 345501.	1.3	41
30	Revisiting effects of microarchitecture on mechanics of elastomeric cellular materials. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	9
31	Direct Ink Writing of High Performance Architected Polyimides with Low Dimensional Shrinkage. <i>Advanced Engineering Materials</i> , 2019, 21, 1801314.	1.6	44
32	Low Stress Packaging of MEMS Sensors via 3D Additive Manufacturing Techniques. , 2019, , .		0
33	3D-Printed Graphene/Polydimethylsiloxane Composites for Stretchable and Strain-Insensitive Temperature Sensors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 1344-1352.	4.0	141
34	Time-of-flight secondary ion mass spectrometry analyses of vancomycin. <i>Biointerphases</i> , 2018, 13, 03B401.	0.6	5
35	Building Integrated Photovoltaic Module-Based on Aluminum Substrate With Forced Water Cooling. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2018, 140, 0210051-210055.	1.1	5
36	Additive manufacturing of elastomeric foam with cell unit design for broadening compressive stress plateau. <i>Rapid Prototyping Journal</i> , 2018, 24, 1579-1585.	1.6	15

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37	Three-Dimensional Coprinting of Liquid Metals for Directly Fabricating Stretchable Electronics. 3D Printing and Additive Manufacturing, 2018, 5, 195-203.	1.4	25
38	Conductive grid patterns prepared by microcontact printing silver nanoparticles ink. Materials Research Express, 2017, 4, 015021.	0.8	16
39	Mechanics of surface crosslinked poly(dimethyl siloxane) microstructure used for microcontact transfer printing. Journal of Applied Polymer Science, 2017, 134, 45166.	1.3	4
40	3D printing of a mechanically durable superhydrophobic porous membrane for oil-water separation. Journal of Materials Chemistry A, 2017, 5, 12435-12444.	5.2	189
41	Precision-Trimming 2D Inverse-Opal Lattice on Elastomer to Ordered Nanostructures with Variable Size and Morphology. Langmuir, 2017, 33, 4881-4889.	1.6	3
42	A thermoelectric generator based efficiency booster for performance enhancement of natural circulation systems. Nuclear Engineering and Design, 2017, 320, 187-199.	0.8	3
43	A theoretical analysis of peeling behavior between nanowires and substrates in the ambient condition with high relative humidity. Mechanics of Materials, 2017, 114, 243-253.	1.7	8
44	Atomic Force Microscopy for Characterizing Nanocomposites. , 2017, , 421-442.		0
45	The chirality-dependent fracture properties of single-layer graphene sheets: Molecular dynamics simulations and finite element method. Journal of Applied Physics, 2017, 122, .	1.1	8
46	Fabrication of Polydimethylsiloxane films with special surface wettability by 3D printing. Composites Part B: Engineering, 2017, 129, 58-65.	5.9	55
47	Fabrication of Copper Electrode on Flexible Substrate Through Ag ⁺ -Based Inkjet Printing and Rapid Electroless Metallization. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2017, 7, 1552-1559.	1.4	16
48	Large stretchability and failure mechanism of graphene kirigami under tension. Soft Matter, 2017, 13, 8930-8939.	1.2	16
49	Potential Application of a Thermoelectric Generator in Passive Cooling System of Nuclear Power Plants. Journal of Electronic Materials, 2017, 46, 3109-3114.	1.0	3
50	An overview on design of homebuilt micro-contact transfer printing machine with easy access to one micron patterning resolution. , 2017, , .		0
51	A laser printing based approach for printed electronics. Applied Physics Letters, 2016, 108, .	1.5	19
52	Coaxial printing method for directly writing stretchable cable as strain sensor. Applied Physics Letters, 2016, 109, .	1.5	57
53	Material design and process development of electrostatically patterning silver capsuled composite particle for preparing conductive tracks on flexible substrate. Composites Part B: Engineering, 2016, 105, 111-115.	5.9	8
54	Transfer printing for preparing nanostructured PDMS film as flexible SERS active substrate. Composites Part B: Engineering, 2016, 84, 222-227.	5.9	53

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55	A new bio-inspired optimisation algorithm: Bird Swarm Algorithm. Journal of Experimental and Theoretical Artificial Intelligence, 2016, 28, 673-687.	1.8	335
56	Development of temperature sensing system in downhole application from temperature field in oil well. , 2015, , .		0
57	Cross-Linking Poly(lactic acid) Film Surface by Neutral Hyperthermal Hydrogen Molecule Bombardment. Journal of Agricultural and Food Chemistry, 2015, 63, 10604-10610.	2.4	10
58	A novel bat algorithm with habitat selection and Doppler effect in echoes for optimization. Expert Systems With Applications, 2015, 42, 6350-6364.	4.4	183
59	Cross-Linking the Surface of Cured Polydimethylsiloxane via Hyperthermal Hydrogen Projectile Bombardment. ACS Applied Materials & Interfaces, 2015, 7, 8515-8524.	4.0	16
60	Fabrication of flexible and low-cost SERS substrate by using Archimedes' Principle. , 2015, , .		0
61	â€œZero-transferâ€ production of large-scale, flexible nanostructured film at water surface for surface enhancement Raman spectroscopy. Applied Physics Letters, 2015, 106, 211604.	1.5	8
62	Empirical study on thermal performance through separating impacts from a hybrid PV/TE system design integrating heat sink. International Communications in Heat and Mass Transfer, 2015, 60, 9-12.	2.9	30
63	A New Bio-inspired Algorithm: Chicken Swarm Optimization. Lecture Notes in Computer Science, 2014, , 86-94.	1.0	341
64	Preparation of antibacterial surfaces by hyperthermal hydrogen induced cross-linking of polymer thin films. Journal of Materials Chemistry, 2012, 22, 4881.	6.7	43
65	A New AFM Nanotribology Method Using a T-Shape Cantilever with an Off-Axis Tip for Friction Coefficient Measurement with Minimized AbbÂ© Error. Tribology Letters, 2011, 41, 313-318.	1.2	7
66	Design, characterization and evaluation of high performance 2.8 μ m pitch zero space microlens. Optics Communications, 2011, 284, 2357-2362.	1.0	2
67	Measurement of High Sensitivity and Low Crosstalk of Zero-Space Microlens for 2.8- μ m-Pitch Active Pixel Sensor. IEEE Transactions on Electron Devices, 2010, 57, 415-421.	1.6	7
68	Optimization and calibration of atomic force microscopy sensitivity in terms of tip-sample interactions in high-order dynamic atomic force microscopy. Journal of Applied Physics, 2009, 106, .	1.1	10
69	Design of a relaying electroosmosis pump driven by low-voltage DC. Microsystem Technologies, 2009, 15, 1009-1015.	1.2	3
70	Modeling of electroosmotic pumping of nonconducting liquids and biofluids by a two-phase flow method. Journal of Electroanalytical Chemistry, 2009, 636, 86-92.	1.9	34
71	Study of force-dependent and time-dependent transition of secondary flow in a rotating straight channel by the lattice Boltzmann method. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 288-294.	1.2	8
72	Ion Size and Image Effect on Electrokinetic Flows. Langmuir, 2008, 24, 2884-2891.	1.6	16

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73	Revisiting atomic force microscopy force spectroscopy sensitivity for single molecule studies. Journal of Applied Physics, 2008, 104, 114504.	1.1	3
74	Where there is a valley, there is a peak: Study of ion size and image effects on nanoelectroosmotic pumping. Journal of Chemical Physics, 2008, 128, 174708.	1.2	0
75	Coupling effects of refractive index discontinuity, spot size and spot location on the deflection sensitivity of optical-lever based atomic force microscopy. Nanotechnology, 2008, 19, 235501.	1.3	4
76	Accuracy improvement of miniaturized machine tool: Geometric error modeling and compensation. International Journal of Machine Tools and Manufacture, 2006, 46, 1508-1516.	6.2	94
77	DEVELOPMENT OF AN OPTICAL MEASURING SYSTEM FOR GEOMETRIC ERRORS OF A MINIATURIZED MACHINE TOOL. International Journal of Modern Physics B, 2006, 20, 3739-3744.	1.0	1
78	Design, Fabrication and Implementation of a High-Performance Compliant Nanopositioner via 3D Printing with Continuous Fiber-Reinforced Composite. Journal of Micromechanics and Microengineering, 0, , .	1.5	1