

Jinyou Shao

List of Publications by Year in descending order

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113
papers

4,397
citations

117625

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117
all docs

117
docs citations

117
times ranked

5772
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal Micropatterning by Triboelectric Spark Discharge. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	7
2	Bioinspired Hierarchical Structures for Contactâ€ Sensible Adhesives. <i>Advanced Functional Materials</i> , 2022, 32, 2109076.	14.9	30
3	Self-healing and stretchable conductor based on embedded liquid metal patterns within imprintable dynamic covalent elastomer. <i>Journal of Materials Chemistry C</i> , 2022, 10, 1039-1047.	5.5	23
4	Wafer-Scale and Cost-Effective Manufacturing of Controllable Nanogap Arrays for Highly Sensitive SERS Sensing. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 3580-3590.	8.0	12
5	Metal Micropatterning by Triboelectric Spark Discharge (<i>Adv. Funct. Mater.</i> 1/2022). <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	1
6	Compact 3D Metal Collectors Enabled by Rollâ€toâ€Roll Nanoimprinting for Improving Capacitive Energy Storage. <i>Small Methods</i> , 2022, 6, e2101539.	8.6	5
7	High performance solid-state supercapacitors based on highly conductive organogel electrolyte at low temperature. <i>Journal of Power Sources</i> , 2022, 524, 231102.	7.8	17
8	Pattern formation in thin polymeric films <i>via</i> electrohydrodynamic patterning. <i>RSC Advances</i> , 2022, 12, 9681-9697.	3.6	2
9	Shape-programmable, deformation-locking, and self-sensing artificial muscle based on liquid crystal elastomer and lowâ€ melting point alloy. <i>Science Advances</i> , 2022, 8, eabn5722.	10.3	46
10	Gecko-Inspired Slant Hierarchical Microstructure-Based Ultrasensitive Iontronic Pressure Sensor for Intelligent Interaction. <i>Research</i> , 2022, 2022, .	5.7	14
11	Highâ€Performance Packaged 3D Lithiumâ€ Ion Microbatteries Fabricated Using Imprint Lithography. <i>Advanced Materials</i> , 2021, 33, e2006229.	21.0	43
12	Discretely-supported nanoimprint lithography for patterning the high-spatial-frequency stepped surface. <i>Nano Research</i> , 2021, 14, 2606-2612.	10.4	7
13	Nanoimprinting metal-containing nanoparticle-doped gratings to enhance the polarization of light-emitting chips by induced scattering. <i>Nanotechnology</i> , 2021, 32, 235304.	2.6	3
14	Tuning the Mechanical and Electrical Properties of Porous Electrodes for Architecting 3D Microsupercapacitors with Batteriesâ€Level Energy. <i>Advanced Science</i> , 2021, 8, e2004957.	11.2	16
15	Channel-Crack-Designed Suspended Sensing Membrane as a Fully Flexible Vibration Sensor with High Sensitivity and Dynamic Range. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 34637-34647.	8.0	24
16	High-Performance Transparent and Conductive Films with Fully Enclosed Metal Mesh. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 40806-40816.	8.0	15
17	<i>Dytiscus lapponicus</i>-Inspired Structure with High Adhesion in Dry and Underwater Environments. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 42287-42296.	8.0	20
18	Facile fabrication of flexible concave microlens arrays with a well-controlled curvature. <i>Materials Chemistry Frontiers</i> , 2021, 5, 7759-7766.	5.9	1

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19	Facile Fabrication of a Flexible Patterned Film with Diverse Micro-/Nanostructures via Electrohydrodynamic Patterning. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 314-323.	3.7	5
20	Flexible strain sensor based on embedded three-dimensional annular cracks with high mechanical robustness and high sensitivity. <i>Applied Materials Today</i> , 2021, 25, 101247.	4.3	11
21	High-transmittance and focal controllable plano-convex lenses with embedded nanolens bottoms formed by electrowetting on a colloidal monolayer. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2659-2663.	5.5	8
22	3D printed piezoelectric BNNTs nanocomposites with tunable interface and microarchitectures for self-powered conformal sensors. <i>Nano Energy</i> , 2020, 77, 105300.	16.0	54
23	Switchable Adhesion for Nonflat Surfaces Mimicking Geckos' Adhesive Structures and Toe Muscles. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 39745-39755.	8.0	50
24	Flexible Double-Sided Light-Emitting Devices Based on Transparent Embedded Interdigital Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 43892-43900.	8.0	10
25	An Electrically Actuated Soft Artificial Muscle Based on a High-Performance Flexible Electrothermal Film and Liquid-Crystal Elastomer. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 56338-56349.	8.0	44
26	Scalable Imprinting of Flexible Multiplexed Sensor Arrays with Distributed Piezoelectricity-Enhanced Micropillars for Dynamic Tactile Sensing. <i>Advanced Materials Technologies</i> , 2020, 5, 2000046.	5.8	45
27	An electrically active gecko-effect soft gripper under a low voltage by mimicking gecko's adhesive structures and toe muscles. <i>Soft Matter</i> , 2020, 16, 5599-5608.	2.7	38
28	Role of geometric shapes on the load transfer in graphene-PMMA nanocomposites. <i>Computational Materials Science</i> , 2020, 184, 109863.	3.0	4
29	Mechanical properties and enhancement mechanisms of titanium-graphene nanocomposites. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2020, 36, 855-865.	3.4	14
30	Scalable fabrication of high-performance micro-supercapacitors by embedding thick interdigital microelectrodes into microcavities. <i>Nanoscale</i> , 2019, 11, 19772-19782.	5.6	7
31	Transparent and stretchable bimodal triboelectric nanogenerators with hierarchical micro-nanostructures for mechanical and water energy harvesting. <i>Nano Energy</i> , 2019, 64, 103904.	16.0	85
32	Gecko-Inspired Effect Inspired Soft Gripper with High and Switchable Adhesion for Rough Surfaces. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900875.	3.7	29
33	Hybrid nanostructure of SiO ₂ @Si with Au-nanoparticles for surface enhanced Raman spectroscopy. <i>Nanoscale</i> , 2019, 11, 13484-13493.	5.6	21
34	Soft Gripper: Gecko-Inspired Effect Inspired Soft Gripper with High and Switchable Adhesion for Rough Surfaces (<i>Adv. Mater. Interfaces</i> 18/2019). <i>Advanced Materials Interfaces</i> , 2019, 6, 1970119.	3.7	1
35	Suspended-Template Electric-Assisted Nanoimprinting for Hierarchical Micro-Nanostructures on a Fragile Substrate. <i>ACS Nano</i> , 2019, 13, 10333-10342.	14.6	18
36	Nanoimprint lithography for the manufacturing of flexible electronics. <i>Science China Technological Sciences</i> , 2019, 62, 175-198.	4.0	88

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37	Flexible Capacitive Pressure Sensor Enhanced by Tilted Micropillar Arrays. ACS Applied Materials & Interfaces, 2019, 11, 17796-17803.	8.0	292
38	Multilayered Dual Functional SiO ₂ @Au@SiO ₂ @QD Nanoparticles for Simultaneous Intracellular Heating and Temperature Measurement. Langmuir, 2019, 35, 6367-6378.	3.5	12
39	Facile Fabrication of Electrohydrodynamic Micro/Nanostructures with High Aspect Ratio of a Conducting Polymer for Large-Scale Superhydrophilic/Superhydrophobic Surfaces. Macromolecular Materials and Engineering, 2018, 303, 1700361.	3.6	8
40	Polydopamine-Coated Main-Chain Liquid Crystal Elastomer as Optically Driven Artificial Muscle. ACS Applied Materials & Interfaces, 2018, 10, 8307-8316.	8.0	147
41	Engineering the Exciton Dissociation in Quantum-Confined 2D CsPbBr ₃ Nanosheet Films. Advanced Functional Materials, 2018, 28, 1705908.	14.9	98
42	Fabricating hierarchical micro and nano structures on implantable Co-Cr-Mo alloy for tissue engineering by one-step laser ablation. Colloids and Surfaces B: Biointerfaces, 2018, 161, 628-635.	5.0	27
43	Flexible all-inorganic photoconductor detectors based on perovskite/hole-conducting layer heterostructures. Journal of Materials Chemistry C, 2018, 6, 6739-6746.	5.5	36
44	Batch fabrication of nanogap electrodes arrays with controllable cracking for hydrogen sensing. Sensors and Actuators B: Chemical, 2018, 270, 475-481.	7.8	13
45	High energy flexible supercapacitors formed via bottom-up infilling of gel electrolytes into thick porous electrodes. Nature Communications, 2018, 9, 2578.	12.8	121
46	Spray-Coated CsPbBr ₃ Quantum Dot Films for Perovskite Photodiodes. ACS Applied Materials & Interfaces, 2018, 10, 26387-26395.	8.0	54
47	Friction Contribution to Bioinspired Mushroom-Shaped Dry Adhesives. Advanced Materials Interfaces, 2017, 4, 1700016.	3.7	29
48	Discretely Supported Dry Adhesive Film Inspired by Biological Bending Behavior for Enhanced Performance on a Rough Surface. ACS Applied Materials & Interfaces, 2017, 9, 7752-7760.	8.0	47
49	High-Performance Piezoelectric Nanogenerators with Imprinted P(VDF-TrFE)/BaTiO ₃ Nanocomposite Micropillars for Self-Powered Flexible Sensors. Small, 2017, 13, 1604245.	10.0	329
50	Dielectrophoretic-Assembled Single and Parallel-Aligned Ag Nanowire-ZnO-Branched Nanorod Heteronanowire Ultraviolet Photodetectors. ACS Applied Materials & Interfaces, 2017, 9, 22837-22845.	8.0	31
51	Photoresponse Performance Evaluation of ZnO UV Photodetector Based on Noise Analysis. IEEE Sensors Journal, 2017, 17, 4447-4453.	4.7	9
52	Investigation of the role of template features on the electrically induced structure formation (EISF) for a faithful duplication. Electrophoresis, 2017, 38, 1105-1112.	2.4	4
53	Adhesion Circle: A New Approach To Better Characterize Directional Gecko-Inspired Dry Adhesives. ACS Applied Materials & Interfaces, 2017, 9, 3060-3067.	8.0	18
54	A facile method to fabricate surfaces showing superhydrophilicity in air and superhydrophobicity in oil. Science China Technological Sciences, 2017, 60, 1724-1731.	4.0	3

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55	Improved triboelectrification effect by bendable and slidable fish-scale-like microstructures. <i>Nano Energy</i> , 2017, 40, 646-654.	16.0	37
56	Titania-silica hybrid films derived by a sol-gel process for organic field effect transistors. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 83, 666-674.	2.4	2
57	A Stretchable and Transparent Nanocomposite Nanogenerator for Self-Powered Physiological Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42200-42209.	8.0	131
58	Flexible and Transparent Strain Sensors with Embedded Multiwalled Carbon Nanotubes Meshes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 40681-40689.	8.0	114
59	Ceiling temperature and photothermalsensitivity of aqueous MSA-CdTe quantum dots thermometers. <i>Applied Surface Science</i> , 2017, 394, 554-561.	6.1	10
60	Nanoscale Electrodes for Flexible Electronics by Swelling Controlled Cracking. <i>Advanced Materials</i> , 2016, 28, 6337-6344.	21.0	34
61	On utilizing alternating current-flow field effect transistor for flexibly manipulating particles in microfluidics and nanofluidics. <i>Biomicrofluidics</i> , 2016, 10, 034105.	2.4	30
62	Numerical analysis of the Rayleigh-Taylor instability in an electric field. <i>Journal of Fluid Mechanics</i> , 2016, 792, 397-434.	3.4	18
63	Switchable Dry Adhesion with Step-like Micropillars and Controllable Interfacial Contact. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 10029-10037.	8.0	58
64	Shape-controllable plano-convex lenses with enhanced transmittance via electrowetting on a nanotextured dielectric. <i>Journal of Materials Chemistry C</i> , 2016, 4, 9162-9166.	5.5	9
65	A photocurable leaky dielectric for highly electrical insulating electrohydrodynamic micro-/nanopatterns. <i>Soft Matter</i> , 2016, 12, 8819-8824.	2.7	9
66	Nanoscale Electrodes: Nanoscale Electrodes for Flexible Electronics by Swelling Controlled Cracking (<i>Adv. Mater.</i> 30/2016). <i>Advanced Materials</i> , 2016, 28, 6516-6516.	21.0	2
67	Numerical investigation of polymer rheology in electrohydrodynamic structuring on geometrical dielectric (ESGD) process. <i>Microfluidics and Nanofluidics</i> , 2016, 20, 1.	2.2	5
68	Preparation, properties, and efficient electrically induced structure formation of a leaky dielectric photoresist. <i>RSC Advances</i> , 2016, 6, 82450-82458.	3.6	8
69	Role of space charges inside a dielectric polymer in the electrohydrodynamic structure formation on a prepatterned polymer (ESF-PP). <i>RSC Advances</i> , 2016, 6, 77275-77283.	3.6	6
70	Enhanced Conversion Efficiencies in Dye-Sensitized Solar Cells Achieved through Self-Assembled Platinum(II) Metallacages. <i>Scientific Reports</i> , 2016, 6, 29476.	3.3	12
71	Decreasing the Saturated Contact Angle in Electrowetting Dielectrics by Controlling the Charge Trapping at Liquid-Solid Interfaces. <i>Advanced Functional Materials</i> , 2016, 26, 2994-3002.	14.9	86
72	High performance flexible pH sensor based on carboxyl-functionalized and DEP aligned SWNTs. <i>Applied Surface Science</i> , 2016, 386, 405-411.	6.1	14

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73	ZnO/TiO ₂ nanohexagon arrays heterojunction photoanode for enhancing power conversion efficiency in dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2016, 685, 610-618.	5.5	22
74	Generation of Hierarchically Ordered Structures on a Polymer Film by Electrohydrodynamic Structure Formation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16419-16427.	8.0	18
75	New architecture of a petal-shaped Nb ₂ O ₅ nanosheet film on FTO glass for high photocatalytic activity. <i>RSC Advances</i> , 2016, 6, 9581-9588.	3.6	22
76	Step-Controllable Electric-Field-Assisted Nanoimprint Lithography for Uneven Large-Area Substrates. <i>ACS Nano</i> , 2016, 10, 4354-4363.	14.6	25
77	A Flexible Piezoelectric-Pyroelectric Hybrid Nanogenerator Based on P(VDF-TrFE) Nanowire Array. <i>IEEE Nanotechnology Magazine</i> , 2016, 15, 295-302.	2.0	55
78	AC electric field induced dielectrophoretic assembly behavior of gold nanoparticles in a wide frequency range. <i>Applied Surface Science</i> , 2016, 370, 184-192.	6.1	25
79	Highly Efficient Flexible Perovskite Solar Cells Using Solution-Derived NiO Hole Contacts. <i>ACS Nano</i> , 2016, 10, 3630-3636.	14.6	426
80	Large area assembly of patterned nanoparticles by a polydimethylsiloxane template. <i>Science China Materials</i> , 2015, 58, 884-892.	6.3	4
81	One-Dimensional Au/ZnO Heteronanostructures for Ultraviolet Light Detectors by a Two-Step Dielectrophoretic Assembly Method. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 12713-12718.	8.0	38
82	Effects of UV radiation on the preparation of polypyrrole in the presence of hydrogen peroxide. <i>Radiation Effects and Defects in Solids</i> , 2015, 170, 821-831.	1.2	10
83	Effect of island shape on dielectrophoretic assembly of metal nanoparticle chains in a conductive-island-based microelectrode system. <i>Applied Surface Science</i> , 2015, 330, 178-184.	6.1	5
84	Particle clustering during pearl chain formation in a conductive-island based dielectrophoretic assembly system. <i>RSC Advances</i> , 2015, 5, 5523-5532.	3.6	5
85	A high performance P(VDF-TrFE) nanogenerator with self-connected and vertically integrated fibers by patterned EHD pulling. <i>Nanoscale</i> , 2015, 7, 11536-11544.	5.6	159
86	Rectangle-capped and tilted micropillar array for enhanced anisotropic anti-shearing in biomimetic adhesion. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20150090.	3.4	26
87	Induced-charge electroosmotic trapping of particles. <i>Lab on A Chip</i> , 2015, 15, 2181-2191.	6.0	82
88	Self-powered flexible pressure sensors with vertically well-aligned piezoelectric nanowire arrays for monitoring vital signs. <i>Journal of Materials Chemistry C</i> , 2015, 3, 11806-11814.	5.5	171
89	Semi-Transparent ZnO-CuI/CuSCN Photodiode Detector with Narrow-Band UV Photoresponse. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 21235-21244.	8.0	66
90	Formation of Arbitrary Patterns in Ultraviolet Cured Polymer Film via Electrohydrodynamic Patterning. <i>Scientific World Journal</i> , The, 2014, 2014, 1-9.	2.1	0

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91	Physical deoxygenation of graphene oxide paper surface and facile in situ synthesis of graphene based ZnO films. <i>Applied Physics Letters</i> , 2014, 105, 233106.	3.3	11
92	Periodic Parallel Array of Nanopillars and Nanoholes Resulting from Colloidal Stripes Patterned by Geometrically Confined Evaporative Self-Assembly for Unique Anisotropic Wetting. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 20300-20308.	8.0	16
93	Generation of Fully-Covering Hierarchical Micro-/Nano-Structures by Nanoimprinting and Modified Laser Swelling. <i>Small</i> , 2014, 10, 2595-2601.	10.0	53
94	LiYF ₄ :Yb ³⁺ , Er ³⁺ upconverting submicro-particles: synthesis and formation mechanism exploration. <i>RSC Advances</i> , 2014, 4, 40223-40231.	3.6	14
95	Simulation of polymer rheology in an electrically induced micro- or nano-structuring process based on electrohydrodynamics and conservative level set method. <i>RSC Advances</i> , 2014, 4, 21672.	3.6	13
96	Electrohydrodynamic Pressure Enhanced by Free Space Charge for Electrically Induced Structure Formation with High Aspect Ratio. <i>Langmuir</i> , 2014, 30, 12654-12663.	3.5	26
97	Electrowetting Assisted Air Detrapping in Transfer Micromolding for Difficult-to-Mold Microstructures. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12737-12743.	8.0	25
98	A general route to enhance the fluorescence of graphene quantum dots by Ag nanoparticles. <i>RSC Advances</i> , 2014, 4, 21772-21776.	3.6	26
99	Steady State of Electrohydrodynamic Patterning of Micro/Nanostructures on Thin Polymer Films. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 12720-12728.	3.7	16
100	Microbowl-arrayed surface generated by EBL of negative-tone SU-8 for highly adhesive hydrophobicity. <i>Applied Surface Science</i> , 2014, 307, 365-371.	6.1	9
101	Electrically Templated Dewetting of a UV-Curable Prepolymer Film for the Fabrication of a Concave Microlens Array with Well-Defined Curvature. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 9975-9982.	8.0	63
102	Influence of Induced-Charge Electrokinetic Phenomena on the Dielectrophoretic Assembly of Gold Nanoparticles in a Conductive-Island-Based Microelectrode System. <i>Langmuir</i> , 2013, 29, 12093-12103.	3.5	32
103	Formation of irregular micro- or nano-structure with features of varying size by spatial fine-modulation of electric field. <i>Soft Matter</i> , 2013, 9, 8033.	2.7	26
104	Electrically Modulated Microtransfer Molding for Fabrication of Micropillar Arrays with Spatially Varying Heights. <i>Langmuir</i> , 2013, 29, 1351-1355.	3.5	26
105	Numerical Characterization of Electrohydrodynamic Micro- or Nanopatterning Processes Based on a Phase-Field Formulation of Liquid Dielectrophoresis. <i>Langmuir</i> , 2013, 29, 4703-4714.	3.5	53
106	Influence of Template Geometry on Polymer Micro-Structure Duplication in Electrohydrodynamics Patterning Process. <i>Journal of Macromolecular Science - Physics</i> , 2012, 51, 1537-1547.	1.0	0
107	Fabrication of Microlens Arrays with Well-controlled Curvature by Liquid Trapping and Electrohydrodynamic Deformation in Microholes. <i>Advanced Materials</i> , 2012, 24, OP165-9, OP90.	21.0	48
108	Microlens Arrays: Fabrication of Microlens Arrays with Well-controlled Curvature by Liquid Trapping and Electrohydrodynamic Deformation in Microholes (<i>Adv. Mater.</i> 23/2012). <i>Advanced Materials</i> , 2012, 24, OP90-OP90.	21.0	15

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109	Fabrication of concave microlens arrays using controllable dielectrophoretic force in template holes. <i>Optics Letters</i> , 2011, 36, 4083.	3.3	39
110	Influence of distorted electric field distribution on microstructure formation in the electrohydrodynamic patterning process. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011, 29, 041606.	1.2	8
111	Improving the height of replication in EHD patterning by optimizing the electrical properties of the template. <i>Journal of Micromechanics and Microengineering</i> , 2011, 21, 115004.	2.6	15
112	Damage mechanism and morphology characteristics of chromium film in femtosecond laser rear-side ablation. <i>Applied Surface Science</i> , 2010, 256, 3612-3617.	6.1	20
113	Making high-fidelity imprint template by resist patterns over a flexible conductive polymer substrate. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010, 28, 86-89.	1.2	2