Zhandong huang

List of Publications by Year
in descending order

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54 papers	1,623 citations	430442 18 h-index	301761 39 g-index
57 all docs	57 docs citations	57 times ranked	2273 citing authors

#	Article	IF	Citations
1	Bio-inspired vertebral design for scalable and flexible perovskite solar cells. Nature Communications, 2020, 11, 3016.	5.8	173
2	Nanoparticle Based Curve Arrays for Multirecognition Flexible Electronics. Advanced Materials, 2016, 28, 1369-1374.	11.1	153
3	Wearable Largeâ€Scale Perovskite Solarâ€Power Source via Nanocellular Scaffold. Advanced Materials, 2017, 29, 1703236.	11.1	152
4	A general printing approach for scalable growth of perovskite single-crystal films. Science Advances, 2018, 4, eaat2390.	4.7	150
5	Nacre-inspired crystallization and elastic â€œbrick-and-mortarâ€•structure for a wearable perovskite solar module. Energy and Environmental Science, 2019, 12, 979-987.	15.6	114
6	A general patterning approach by manipulating the evolution of two-dimensional liquid foams. Nature Communications, 2017, 8, 14110.	5.8	99
7	Waterâ€Resistant and Flexible Perovskite Solar Cells via a Glued Interfacial Layer. Advanced Functional Materials, 2019, 29, 1902629.	7.8	89
8	Controllable Growth of Highâ€Quality Inorganic Perovskite Microplate Arrays for Functional Optoelectronics. Advanced Materials, 2020, 32, e1908006.	11.1	66
9	Bubble Architectures for Locally Resonant Acoustic Metamaterials. Advanced Functional Materials, 2019, 29, 1906984.	7.8	56
10	In Situ Inkjet Printing of the Perovskite Single-Crystal Array-Embedded Polydimethylsiloxane Film for Wearable Light-Emitting Devices. ACS Applied Materials & Interfaces, 2020, 12, 22157-22162.	4.0	53
11	A New Class of Electronic Devices Based on Flexible Porous Substrates. Advanced Science, 2022, 9, e2105084.	5.6	40
12	A 3D Selfâ€Shaping Strategy for Nanoresolution Multicomponent Architectures. Advanced Materials, 2018, 30, 1703963.	11.1	39
13	A General Approach for Fluid Patterning and Application in Fabricating Microdevices. Advanced Materials, 2018, 30, e1802172.	11.1	36
14	Swarm Intelligenceâ€Inspired Spontaneous Fabrication of Optimal Interconnect at the Micro/Nanoscale. Advanced Materials, 2017, 29, 1605223.	11.1	35
15	Steerable Droplet Bouncing for Precise Materials Transportation. Advanced Materials Interfaces, 2019, 6, 1901033.	1.9	35
16	Bioinspired Patterned Bubbles for Broad and Low-Frequency Acoustic Blocking. ACS Applied Materials & Interfaces, 2020, 12, 1757-1764.	4.0	35
17	Controllable printing of large-scale compact perovskite films for flexible photodetectors. Nano Research, 2022, 15, 1547-1553.	5.8	30
18	A general strategy for printing colloidal nanomaterials into one-dimensional micro/nanolines. Nanoscale, 2018, 10, 22374-22380.	2.8	20

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19	Magnetic-actuated â€œcapillary containerâ€•for versatile three-dimensional fluid interface manipulation. Science Advances, 2021, 7, .	4.7	19
20	Bioinspired Antiâ€MoirÃ© Random Grids via Patterning Foams. Advanced Optical Materials, 2017, 5, 1700751.	3.6	17
21	Nonâ€Lithography Hydrodynamic Printing of Micro/Nanostructures on Curved Surfaces. Angewandte Chemie - International Edition, 2020, 59, 14234-14240.	7.2	17
22	Evaporation Induced Spontaneous Microâ€Vortexes through Engineering of the Marangoni Flow. Angewandte Chemie - International Edition, 2020, 59, 23684-23689.	7.2	16
23	Inkjet Printing of a Micro/Nanopatterned Surface to Serve as Microreactor Arrays. ACS Applied Materials & Interfaces, 2020, 12, 30962-30971.	4.0	16
24	Lotus Metasurface for Wide-Angle Intermediate-Frequency Waterâ€“Air Acoustic Transmission. ACS Applied Materials & Interfaces, 2021, 13, 53242-53251.	4.0	15
25	Omnidirectional Photodetectors Based on Spatial Resonance Asymmetric Facade via a 3D Selfâ€Standing Strategy. Advanced Materials, 2020, 32, e1907280.	11.1	14
26	A Bubbleâ€Assisted Approach for Patterning Nanoscale Molecular Aggregates. Angewandte Chemie - International Edition, 2021, 60, 16547-16553.	7.2	14
27	Tunable Fluid-Type Metasurface for Wide-Angle and Multifrequency Water-Air Acoustic Transmission. Research, 2021, 2021, 9757943.	2.8	13
28	Heterogeneous Integration of Three-Primary-Color Photoluminescent Nanoparticle Arrays with Defined Interfaces. ACS Applied Materials & Interfaces, 2019, 11, 1616-1623.	4.0	12
29	Microfiberâ€Knitted Crossweave Patterns for Multiresolution Physical Kineses Analysis Electronics. Advanced Materials Technologies, 2018, 3, 1800107.	3.0	9
30	Printed Highâ€Density and Flexible Photodetector Arrays via Sizeâ€matched Heterogeneous Microâ€/Nanostructure. Advanced Optical Materials, 2020, 8, 2000370.	3.6	9
31	Patterned Arrays of Functional Lateral Heterostructures via Sequential Templateâ€Directed Printing. Small, 2018, 14, e1800792.	5.2	8
32	Fully Printed Flexible Crossbar Memory Devices with Tipâ€Enhanced Micro/Nanostructures. Advanced Electronic Materials, 2019, 5, 1900131.	2.6	8
33	Vapor-Induced Liquid Collection and Microfluidics on Superlyophilic Substrates. ACS Applied Materials & Interfaces, 2021, 13, 3454-3462.	4.0	8
34	Negative Refraction Acoustic Lens Based on Elastic Shell Encapsulated Bubbles. Advanced Materials Technologies, 2022, 7, .	3.0	7
35	Soft Acoustic Metamaterials: Bubble Architectures for Locally Resonant Acoustic Metamaterials (Adv.) Tj ETQq1 1 0.784314 rgBT /Ov	7.8	6
36	Synthesis and Crystal Structures of Copper(II), Zinc(II), Lead(II) and Cadmium(II) Tetrazole-5-carboxylate Complexes Generated via in situ Hydrolysis Reaction. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2010, 65, 1467-1471.	0.3	5

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37	Synthesis and crystal structures of copper(II) and silver(I) complexes of a biphenyl-bridged bipyrazolyl ligand. Transition Metal Chemistry, 2012, 37, 595-600.	0.7	5
38	Synthesis and Structures of Silver(I) Adducts with 4-Amino-3,5-diisobutyl-4H-1,2,4-triazole: The Identification of a New Type of Ag3tz6 Cluster. Journal of Cluster Science, 2013, 24, 61-71.	1.7	5
39	Gas/liquid interfacial manipulation by electrostatic inducing for nano-resolution printed circuits. Journal of Materials Chemistry C, 2016, 4, 10847-10851.	2.7	5
40	Patterning Bubbles by the Stickâ€“Slip Motion of the Advancing Triple Phase Line on Nanostructures. Langmuir, 2018, 34, 15804-15811.	1.6	5
41	Traveling Sound Wave with Transverse Particle Velocity in a Metawaveguide by Using a Phase-Reversible Metasurface. Physical Review Applied, 2020, 14, .	1.5	5
42	Fully Printed Geranium-Inspired Encapsulated Arrays for Quantitative Odor Releasing. ACS Omega, 2019, 4, 19977-19982.	1.6	4
43	Ring-Patterned Perovskite Single Crystals Fabricated by the Combination of Rigid and Flexible Templates. ACS Applied Materials & Interfaces, 2020, 12, 27786-27793.	4.0	3
44	Domino Patterning of Water and Oil Induced by Emulsion Breaking. ACS Applied Materials & Interfaces, 2019, 11, 17960-17967.	4.0	1
45	Evaporation Induced Spontaneous Microâ€Vortexes through Engineering of the Marangoni Flow. Angewandte Chemie, 2020, 132, 23892-23897.	1.6	1
46	Poly[[tris(N,N-dimethylformamide)(Î¼4-5-nitroisophthalato)(Î¼3-5-nitroisophthalato)dicobalt(II)]N,N-dimethylformamide monosolvate]. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, m1220-m1221.	0.2	0
47	3,5-Bis(4-methoxyphenyl)-4H-1,2,4-triazol-4-amine. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o2236-o2236.	0.2	0
48	Wearable Electronics: Wearable Largeâ€Scale Perovskite Solarâ€Power Source via Nanocellular Scaffold (Adv. Mater. 42/2017). Advanced Materials, 2017, 29, .	11.1	0
49	Recognition and location of motile microorganisms by shape-matching photoluminescence micropatterns. Lab on A Chip, 2020, 20, 2975-2980.	3.1	0
50	Frontispiz: Nonâ€Lithography Hydrodynamic Printing of Micro/Nanostructures on Curved Surfaces. Angewandte Chemie, 2020, 132, .	1.6	0
51	Frontispiece: Nonâ€Lithography Hydrodynamic Printing of Micro/Nanostructures on Curved Surfaces. Angewandte Chemie - International Edition, 2020, 59, .	7.2	0
52	Nonâ€Lithography Hydrodynamic Printing of Micro/Nanostructures on Curved Surfaces. Angewandte Chemie, 2020, 132, 14340-14346.	1.6	0
53	Photodetectors: Omnidirectional Photodetectors Based on Spatial Resonance Asymmetric Facade via a 3D Selfâ€Standing Strategy (Adv. Mater. 16/2020). Advanced Materials, 2020, 32, 2070128.	11.1	0
54	A Bubbleâ€Assisted Approach for Patterning Nanoscale Molecular Aggregates. Angewandte Chemie, 2021, 133, 16683-16689.	1.6	0