

Yuan Liu

List of Publications by Year in descending order

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19
papers

2,014
citations

516710

16
h-index

794594

19
g-index

19
all docs

19
docs citations

19
times ranked

2427
citing authors

#	ARTICLE	IF	CITATIONS
1	Redox-mediated electrosynthesis of ethylene oxide from CO ₂ and water. <i>Nature Catalysis</i> , 2022, 5, 185-192.	34.4	40
2	Wide-Bandgap Perovskite Quantum Dots in Perovskite Matrix for Sky-Blue Light-Emitting Diodes. <i>Journal of the American Chemical Society</i> , 2022, 144, 4009-4016.	13.7	92
3	Low coordination number copper catalysts for electrochemical CO ₂ methanation in a membrane electrode assembly. <i>Nature Communications</i> , 2021, 12, 2932.	12.8	97
4	Passivation of the Buried Interface via Preferential Crystallization of 2D Perovskite on Metal Oxide Transport Layers. <i>Advanced Materials</i> , 2021, 33, e2103394.	21.0	99
5	Bright and Stable Light-Emitting Diodes Based on Perovskite Quantum Dots in Perovskite Matrix. <i>Journal of the American Chemical Society</i> , 2021, 143, 15606-15615.	13.7	94
6	Distribution control enables efficient reduced-dimensional perovskite LEDs. <i>Nature</i> , 2021, 599, 594-598.	27.8	358
7	Morphology-controlled Tantalum Diselenide Structures as Self-optimizing Hydrogen Evolution Catalysts. <i>Energy and Environmental Materials</i> , 2020, 3, 12-18.	12.8	17
8	Bipolar-shell resurfacing for blue LEDs based on strongly confined perovskite quantum dots. <i>Nature Nanotechnology</i> , 2020, 15, 668-674.	31.5	541
9	Solvent-Solute Coordination Engineering for Efficient Perovskite Luminescent Solar Concentrators. <i>Joule</i> , 2020, 4, 631-643.	24.0	53
10	Harnessing the interface mechanics of hard films and soft substrates for 3D assembly by controlled buckling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 15368-15377.	7.1	54
11	Postbuckling analyses of frame mesostructures consisting of straight ribbons for mechanically guided three-dimensional assembly. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019, 475, 20190012.	2.1	5
12	Bandgap-tunable double-perovskite thin films by solution processing. <i>Materials Today</i> , 2019, 28, 25-30.	14.2	45
13	Optimization-Based Approach for the Inverse Design of Ribbon-Shaped Three-Dimensional Structures Assembled Through Compressive Buckling. <i>Physical Review Applied</i> , 2019, 11, .	3.8	20
14	High Performance, Tunable Electrically Small Antennas through Mechanically Guided 3D Assembly. <i>Small</i> , 2019, 15, e1804055.	10.0	60
15	Morphable 3D mesostructures and microelectronic devices by multistable buckling mechanics. <i>Nature Materials</i> , 2018, 17, 268-276.	27.5	297
16	An overview of healthcare monitoring by flexible electronics. <i>Science China: Physics, Mechanics and Astronomy</i> , 2018, 61, 1.	5.1	11
17	A porous graphene/polydimethylsiloxane composite by chemical foaming for simultaneous tensile and compressive strain sensing. <i>FlatChem</i> , 2018, 10, 1-7.	5.6	29
18	Mechanically-Guided Deterministic Assembly of 3D Mesostructures Assisted by Residual Stresses. <i>Small</i> , 2017, 13, 1700151.	10.0	32

#	ARTICLE	IF	CITATIONS
19	Guided Formation of 3D Helical Mesostructures by Mechanical Buckling: Analytical Modeling and Experimental Validation. <i>Advanced Functional Materials</i> , 2016, 26, 2909-2918.	14.9	70