Gang Chen

List of Publications by Year
in descending order

48 papers	2,644 citations	279798 23 h-index	197818 49 g-index
49 all docs	49 docs citations	49 times ranked	3451 citing authors

#	Article	IF	Citations
1	Tailoring Interlayer Spacers for Efficient and Stable Formamidiniumâ€Based Lowâ€Dimensional Perovskite Solar Cells. Advanced Materials, 2022, 34, e2106380.	21.0	42
2	All-perovskite tandem solar cells with improved grain surface passivation. Nature, 2022, 603, 73-78.	27.8	544
3	Sizes of pure and doped helium droplets from single shot x-ray imaging. Journal of Chemical Physics, 2022, 156, 041102.	3.0	3
4	Highly dispersed Pt nanoparticles on 2D MoS₂ nanosheets for efficient and stable hydrogen evolution reaction. Journal of Materials Chemistry A, 2022, 10, 5273-5279.	10.3	20
5	Flexible all-perovskite tandem solar cells approaching 25% efficiency with molecule-bridged hole-selective contact. Nature Energy, 2022, 7, 708-717.	39.5	171
6	Highly Thermostable and Efficient Formamidiniumâ€Based Lowâ€Dimensional Perovskite Solar Cells. Angewandte Chemie - International Edition, 2021, 60, 856-864.	13.8	75
7	Highly Thermostable and Efficient Formamidiniumâ€Based Lowâ€Dimensional Perovskite Solar Cells. Angewandte Chemie, 2021, 133, 869-877.	2.0	12
8	A Hierarchical Anodic Aluminum Oxide Template. Nano Letters, 2021, 21, 250-257.	9.1	14
9	Self-passivation of low-dimensional hybrid halide perovskites guided by structural characteristics and degradation kinetics. Energy and Environmental Science, 2021, 14, 2357-2368.	30.8	12
10	Noncovalent Self-Assembly of Protein Crystals with Tunable Structures. Nano Letters, 2021, 21, 1749-1757.	9.1	11
11	Precisely Controlled Vertical Alignment in Mesostructured Carbon Thin Films for Efficient Electrochemical Sensing. ACS Nano, 2021, 15, 7713-7721.	14.6	28
12	A Nanomesh Electrode for Self-Driven Perovskite Photodetectors with Tunable Asymmetric Schottky Junctions. Nanoscale, 2021, 13, 17147-17155.	5.6	3
13	Humidityâ€Induced Defectâ€Healing of Formamidiniumâ€Based Perovskite Films. Small, 2021, 17, e2104165.	10.0	10
14	Precise Fabrication of De Novo Nanoparticle Lattices on Dynamic 2D Protein Crystalline Lattices. Nano Letters, 2020, 20, 1154-1160.	9.1	16
15	Photo-driven growth of a monolayer of platinum spherical-nanocrowns uniformly coated on a membrane toward fuel cell applications. Journal of Materials Chemistry A, 2020, 8, 23284-23292.	10.3	18
16	Interfacial Structure and Composition Managements for Highâ€Performance Methylammoniumâ€Free Perovskite Solar Cells. Advanced Functional Materials, 2020, 30, 2005846.	14.9	25
17	Conformational and Compositional Tuning of Phenanthrocarbazole-Based Dopant-Free Hole-Transport Polymers Boosting the Performance of Perovskite Solar Cells. Journal of the American Chemical Society, 2020, 142, 17681-17692.	13.7	83
18	Improving efficiency and stability of colorful perovskite solar cells with two-dimensional photonic crystals. Nanoscale, 2020, 12, 8425-8431.	5.6	27

#	ARTICLE	IF	CITATIONS
19	In Situ Observation of Vapor-Assisted 2Dâ€“3D Heterostructure Formation for Stable and Efficient Perovskite Solar Cells. Nano Letters, 2020, 20, 1296-1304.	9.1	65
20	Templated growth of oriented layered hybrid perovskites on 3D-like perovskites. Nature Communications, 2020, 11, 582.	12.8	167
21	A Crossâ€Linked PCBM Interlayer for Efficient and UVâ€Stable Methylammoniumâ€Free Perovskite Solar Cells. Energy Technology, 2020, 8, 2000224.	3.8	9
22	Ligandâ€Modulated Excess PbI₂ Nanosheets for Highly Efficient and Stable Perovskite Solar Cells. Advanced Materials, 2020, 32, e2000865.	21.0	136
23	A New Organic Interlayer Spacer for Stable and Efficient 2D Ruddlesdenâ€“Popper Perovskite Solar Cells. Nano Letters, 2019, 19, 5237-5245.	9.1	76
24	Dynamic Crystallization and Phase Transition in Evaporating Colloidal Droplets. Nano Letters, 2019, 19, 8225-8233.	9.1	19
25	Synergistic Improvements in Efficiency and Stability of 2D Perovskite Solar Cells with Metal Ion Doping. Advanced Materials Interfaces, 2019, 6, 1901259.	3.7	14
26	In Situ Observation of Crystallization Dynamics and Grain Orientation in Sequential Deposition of Metal Halide Perovskites. Advanced Functional Materials, 2019, 29, 1902319.	14.9	53
27	Experimental evidence for x-ray standing wave modulated surface scattering effect. Applied Physics Letters, 2019, 114, 141601.	3.3	2
28	In situ X-ray scattering observation of two-dimensional interfacial colloidal crystallization. Nature Communications, 2018, 9, 1335.	12.8	32
29	Self-Assembly of Protein Crystals with Different Crystal Structures Using Tobacco Mosaic Virus Coat Protein as a Building Block. ACS Nano, 2018, 12, 1673-1679.	14.6	33
30	In Situ Realâ€Time Study of the Dynamic Formation and Conversion Processes of Metal Halide Perovskite Films. Advanced Materials, 2018, 30, 1706401.	21.0	52
31	Realâ€Time Probing of Nanowire Assembly Kinetics at the Airâ€“Water Interface by Inâ€…Situ Synchrotron Xâ€Ray Scattering. Angewandte Chemie, 2018, 130, 8262-8266.	2.0	3
32	Realâ€Time Probing of Nanowire Assembly Kinetics at the Airâ€“Water Interface by Inâ€…Situ Synchrotron Xâ€Ray Scattering. Angewandte Chemie - International Edition, 2018, 57, 8130-8134.	13.8	14
33	X-ray standing wave enhanced scattering from mesoporous silica thin films. Applied Physics Letters, 2017, 110, .	3.3	7
34	Constructing Three-Dimensional Mesoporous Bouquet-Posy-like TiO₂ Superstructures with Radially Oriented Mesochannels and Single-Crystal Walls. Journal of the American Chemical Society, 2017, 139, 517-526.	13.7	76
35	Mesoporous Silica Thin Membranes with Large Vertical Mesochannels for Nanosizeâ€Based Separation. Advanced Materials, 2017, 29, 1702274.	21.0	87
36	Controllable Formation of Efficient CuSe Counter Electrodes for Quantum Dot Sensitized Solar Cells. Journal of the Electrochemical Society, 2017, 164, F1566-F1571.	2.9	9

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37	Wide-angle polarization-free plasmon-enhanced light absorption in perovskite films using silver nanowires. Optics Express, 2017, 25, 3594.	3.4	7
38	Structural and optical control of DNA-mediated Janus plasmonic nanostructures. Nanoscale, 2016, 8, 9337-9342.	5.6	7
39	Iterative and accurate determination of small angle X-ray scattering background. Nuclear Science and Techniques/Hewuli, 2016, 27, 1.	3.4	2
40	Two-Dimensional Organicâ€“Inorganic Hybrid Perovskite Photonic Films. Nano Letters, 2016, 16, 4166-4173.	9.1	105
41	X-ray and optical characterizations of DNA-mediated Janus nanostructures. Applied Physics Letters, 2016, 109, 233101.	3.3	1
42	Radially oriented mesoporous TiO ₂ microspheres with single-crystalâ€“like anatase walls for high-efficiency optoelectronic devices. Science Advances, 2015, 1, e1500166.	10.3	139
43	Metal chalcogenides as counter electrode materials in quantum dot sensitized solar cells: a perspective. Journal of Materials Chemistry A, 2015, 3, 23074-23089.	10.3	105
44	Dynamic and Quantitative Control of the DNAâ€Mediated Growth of Gold Plasmonic Nanostructures. Angewandte Chemie - International Edition, 2014, 53, 8338-8342.	13.8	63
45	Shapes and vorticities of superfluid helium nanodroplets. Science, 2014, 345, 906-909.	12.6	197
46	Component Particle Structure in Heterogeneous Disordered Ensembles Extracted from High-Throughput Fluctuation X-Ray Scattering. Physical Review Letters, 2013, 110, 195501.	7.8	12
47	Structure determination of Pt-coated Au dumbbells<i>via</i>fluctuation X-ray scattering. Journal of Synchrotron Radiation, 2012, 19, 695-700.	2.4	23
48	Substrate suppression of thermal roughness in stacked supported bilayers. Physical Review E, 2011, 84, 041914.	2.1	6