Xiaoli Zheng

List of Publications by Year
in descending order

40 papers	3,364 citations	218677 26 h-index	289244 40 g-index
41 all docs	41 docs citations	41 times ranked	5479 citing authors

#	Article	IF	Citations
1	Space-Confined Growth of MoS₂ Nanosheets within Graphite: The Layered Hybrid of MoS₂ and Graphene as an Active Catalyst for Hydrogen Evolution Reaction. Chemistry of Materials, 2014, 26, 2344-2353.	6.7	634
2	Solvent Engineering Boosts the Efficiency of Paintable Carbonâ€Based Perovskite Solar Cells to Beyond 14%. Advanced Energy Materials, 2016, 6, 1502087.	19.5	306
3	Highâ€Performance Grapheneâ€Based Hole Conductorâ€Free Perovskite Solar Cells: Schottky Junction Enhanced Hole Extraction and Electron Blocking. Small, 2015, 11, 2269-2274.	10.0	233
4	Hysteresis-free multi-walled carbon nanotube-based perovskite solar cells with a high fill factor. Journal of Materials Chemistry A, 2015, 3, 24226-24231.	10.3	217
5	A scalable electrodeposition route to the low-cost, versatile and controllable fabrication of perovskite solar cells. Nano Energy, 2015, 15, 216-226.	16.0	207
6	Boron Doping of Multiwalled Carbon Nanotubes Significantly Enhances Hole Extraction in Carbon-Based Perovskite Solar Cells. Nano Letters, 2017, 17, 2496-2505.	9.1	184
7	Mesoporous TiO₂ Single Crystals: Facile Shape-, Size-, and Phase-Controlled Growth and Efficient Photocatalytic Performance. ACS Applied Materials & Interfaces, 2013, 5, 11249-11257.	8.0	116
8	Unveiling a Key Intermediate in Solvent Vapor Postannealing to Enlarge Crystalline Domains of Organometal Halide Perovskite Films. Advanced Functional Materials, 2017, 27, 1604944.	14.9	107
9	N,P-coordinated fullerene-like carbon nanostructures with dual active centers toward highly-efficient multi-functional electrocatalysis for CO₂RR, ORR and Zn-air battery. Journal of Materials Chemistry A, 2019, 7, 15271-15277.	10.3	99
10	Designing nanobowl arrays of mesoporous TiO₂as an alternative electron transporting layer for carbon cathode-based perovskite solar cells. Nanoscale, 2016, 8, 6393-6402.	5.6	89
11	Ultrasound-spray deposition of multi-walled carbon nanotubes on NiO nanoparticles-embedded perovskite layers for high-performance carbon-based perovskite solar cells. Nano Energy, 2017, 42, 322-333.	16.0	82
12	Solvent-Exfoliated and Functionalized Graphene with Assistance of Supercritical Carbon Dioxide. ACS Sustainable Chemistry and Engineering, 2013, 1, 144-151.	6.7	80
13	A multifunctional C + epoxy/Ag-paint cathode enables efficient and stable operation of perovskite solar cells in watery environments. Journal of Materials Chemistry A, 2015, 3, 16430-16434.	10.3	77
14	Co(II)_{1â€“<i>x</i>}Co(0)_{<i>x</i>/3}Mn(III)_{2<i>x</i>/3}S Nanoparticles Supported on B/N-Codoped Mesoporous Nanocarbon as a Bifunctional Electrocatalyst of Oxygen Reduction/Evolution for High-Performance Zinc-Air Batteries. ACS Applied Materials & Interfaces, 2016, 8, 13348-13359.	8.0	77
15	An amorphous precursor route to the conformable oriented crystallization of CH₃NH₃PbBr₃in mesoporous scaffolds: toward efficient and thermally stable carbon-based perovskite solar cells. Journal of Materials Chemistry A, 2016, 4, 12897-12912.	10.3	77
16	Comparison Study of Morphology and Crystallization Behavior of Polyethylene and Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.6	74
17	Designing new fullerene derivatives as electron transporting materials for efficient perovskite solar cells with improved moisture resistance. Nano Energy, 2016, 30, 341-346.	16.0	72
18	Carbon nanotube-induced phase and stability engineering: a strained cobalt-doped WSe₂/MWNT heterostructure for enhanced hydrogen evolution reaction. Journal of Materials Chemistry A, 2018, 6, 4793-4800.	10.3	56

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19	Colloidal Precursor-Induced Growth of Ultra-Even CH3NH3PbI3 for High-Performance Paintable Carbon-Based Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 30184-30192.	8.0	53
20	High-throughput, direct exfoliation of graphite to graphene via a cooperation of supercritical CO2 and pyrene-polymers. RSC Advances, 2012, 2, 10632.	3.6	51
21	Building a lateral/vertical 1T-2H MoS₂/Au heterostructure for enhanced photoelectrocatalysis and surface enhanced Raman scattering. Journal of Materials Chemistry A, 2019, 7, 19922-19928.	10.3	47
22	High-performance, stable and low-cost mesoscopic perovskite (CH3NH3PbI3) solar cells based on poly(3-hexylthiophene)-modified carbon nanotube cathodes. Frontiers of Optoelectronics, 2016, 9, 71-80.	3.7	42
23	Hierarchical Dualâ€Scaffolds Enhance Charge Separation and Collection for High Efficiency Semitransparent Perovskite Solar Cells. Advanced Materials Interfaces, 2016, 3, 1600484.	3.7	40
24	Accurate Control of VS₂ Nanosheets for Coexisting High Photoluminescence and Photothermal Conversion Efficiency. Angewandte Chemie - International Edition, 2020, 59, 3322-3328.	13.8	40
25	Modification of Graphene Oxide with Amphiphilic Double-Crystalline Block Copolymer Polyethylene-b-poly(ethylene oxide) with Assistance of Supercritical CO₂ and Its Further Functionalization. Journal of Physical Chemistry B, 2011, 115, 5815-5826.	2.6	36
26	CO₂â€Induced 2D Niâ€BDC Metalâ€“Organic Frameworks with Enhanced Photocatalytic CO₂ Reduction Activity. Advanced Materials Interfaces, 2021, 8, 2100205.	3.7	36
27	Supercritical CO₂-constructed intralayer [Bi₂O₂]²⁺ structural distortion for enhanced CO₂ electroreduction. Journal of Materials Chemistry A, 2020, 8, 13320-13327.	10.3	29
28	Effect of multiwalled carbon nanotubes on crystallization behavior of poly(vinylidene fluoride) in different solvents. Journal of Applied Polymer Science, 2011, 119, 1905-1913.	2.6	25
29	Supercritical CO₂â€Tailored 2D Oxygenâ€doped Amorphous Carbon Nitride for Enhanced Photocatalytic Activity. Energy and Environmental Materials, 2022, 5, 912-917.	12.8	24
30	Nearâ€Infrared Photoresponse of Oneâ€Sided Abrupt MAPbI₃/TiO₂ Heterojunction through a Tunneling Process. Advanced Functional Materials, 2016, 26, 8545-8554.	14.9	23
31	Supercritical CO₂ synthesis of Co-doped MoO_{3âˆ’x} nanocrystals for multifunctional light utilization. Chemical Communications, 2020, 56, 7649-7652.	4.1	23
32	CO₂-Assisted Synthesis of 2D Amorphous MoO_{3â€“<i>x</i>} Nanosheets: From Top-Down to Bottom-Up. Journal of Physical Chemistry Letters, 2021, 12, 1554-1559.	4.6	20
33	Frustrated Lewis Pairs Constructed on 2D Amorphous Carbon Nitride for Highâ€Selective Photocatalytic CO₂ Reduction to CH₄. Solar Rrl, 2021, 5, 2100673.	5.8	17
34	CO₂â€Assisted Solutionâ€Phase Selective Assembly of 2D WS₂â€WO₃â‹…H₂O and 1Tâ€2H MoS₂ to Desirable Complex Heterostructures. ChemNanoMat, 2017, 3, 632-638.	2.8	16
35	Atomic Rearrangement and Amorphization Induced by Carbon Dioxide in Two-Dimensional MoO_{3â€“<i>x</i>} Nanomaterials. Journal of Physical Chemistry Letters, 2021, 12, 6543-6550.	4.6	15
36	Accurate Control of VS₂ Nanosheets for Coexisting High Photoluminescence and Photothermal Conversion Efficiency. Angewandte Chemie, 2020, 132, 3348-3354.	2.0	11

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37	Superfast Selfâ€Healing and Photothermal Active Hydrogel with Nondefective Graphene as Effective Additive. Macromolecular Materials and Engineering, 2020, 305, 2000172.	3.6	10
38	High Performance Perovskite Solar Cells through Surface Modification, Mixed Solvent Engineering and Nanobowl-Assisted Light Harvesting. MRS Advances, 2016, 1, 3175-3184.	0.9	9
39	Generation of 2D nonlayered ferromagnetic VO2(M) nanosheets induced by strain engineering of CO2. Chemical Communications, 2021, 57, 9072-9075.	4.1	7
40	Strategies for Improving Efficiency and Stability of Perovskite Solar Cells. MRS Advances, 2017, 2, 3051-3060.	0.9	3