Qiong Wang

List of Publications by Year
in descending order

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40 papers	2,675 citations	257450 24 h-index	315739 38 g-index
40 all docs	40 docs citations	40 times ranked	4692 citing authors

#	Article	IF	Citations
1	Organicâ€“inorganic bismuth (III)-based material: A lead-free, air-stable and solution-processable light-absorber beyond organolead perovskites. Nano Research, 2016, 9, 692-702.	10.4	351
2	Biological impact of lead from halide perovskites reveals the risk of introducing a safe threshold. Nature Communications, 2020, 11, 310.	12.8	313
3	Composition-dependent photoluminescence intensity and prolonged recombination lifetime of perovskite CH₃NH₃PbBr_{3â^'x}Cl_xfilms. Chemical Communications, 2014, 50, 11727-11730.	4.1	225
4	Enhancement in lifespan of halide perovskite solar cells. Energy and Environmental Science, 2019, 12, 865-886.	30.8	143
5	Tuning halide perovskite energy levels. Energy and Environmental Science, 2021, 14, 1429-1438.	30.8	124
6	Perovskite Grains Embraced in a Soft Fullerene Network Make Highly Efficient Flexible Solar Cells with Superior Mechanical Stability. Advanced Materials, 2019, 31, e1901519.	21.0	123
7	The Role of Charge Selective Contacts in Perovskite Solar Cell Stability. Advanced Energy Materials, 2019, 9, 1803140.	19.5	120
8	Tin Halide Perovskite Films Made of Highly Oriented 2D Crystals Enable More Efficient and Stable Lead-free Perovskite Solar Cells. ACS Energy Letters, 2020, 5, 1923-1929.	17.4	116
9	Stable and Lowâ€Cost Mesoscopic CH₃NH₃PbI₂Br Perovskite Solar Cells by using a Thin Poly(3â€hexylthiophene) Layer as a Hole Transporter. Chemistry - A European Journal, 2015, 21, 434-439.	3.3	106
10	Transition from the Tetragonal to Cubic Phase of Organohalide Perovskite: The Role of Chlorine in Crystal Formation of CH₃NH₃PbI₃ on TiO₂ Substrates. Journal of Physical Chemistry Letters, 2015, 6, 4379-4384.	4.6	91
11	Low-temperature processed solar cells with formamidinium tin halide perovskite/fullerene heterojunctions. Nano Research, 2016, 9, 1570-1577.	10.4	88
12	Impact of Ultrathin C₆₀ on Perovskite Photovoltaic Devices. ACS Nano, 2018, 12, 876-883.	14.6	80
13	Ferroelectricity-free lead halide perovskites. Energy and Environmental Science, 2019, 12, 2537-2547.	30.8	80
14	Embedded Nickelâ€Mesh Transparent Electrodes for Highly Efficient and Mechanically Stable Flexible Perovskite Photovoltaics: Toward a Portable Mobile Energy Source. Advanced Materials, 2020, 32, e2003422.	21.0	62
15	Enhanced performance of dye-sensitized solar cells by doping Au nanoparticles into photoanodes: a size effect study. Journal of Materials Chemistry A, 2013, 1, 13524.	10.3	58
16	Rationalizing the Molecular Design of Holeâ€Selective Contacts to Improve Charge Extraction in Perovskite Solar Cells. Advanced Energy Materials, 2019, 9, 1900990.	19.5	56
17	Ultrathin Nanosheets of Oxoâ€functionalized Graphene Inhibit the Ion Migration in Perovskite Solar Cells. Advanced Energy Materials, 2020, 10, 1902653.	19.5	52
18	Facile preparation of smooth perovskite films for efficient meso/planar hybrid structured perovskite solar cells. Chemical Communications, 2015, 51, 10038-10041.	4.1	49

#	Article	IF	Citations
19	Halogenâ€Bonded Holeâ€Transport Material Suppresses Charge Recombination and Enhances Stability of Perovskite Solar Cells. Advanced Energy Materials, 2021, 11, 2101553.	19.5	44
20	Control of organicâ€“inorganic halide perovskites in solid-state solar cells: a perspective. Science Bulletin, 2015, 60, 405-418.	9.0	39
21	Solar Rechargeable Batteries Based on Leadâ€“Organohalide Electrolyte. Advanced Energy Materials, 2015, 5, 1501418.	19.5	35
22	Fast Voltage Decay in Perovskite Solar Cells Caused by Depolarization of Perovskite Layer. Journal of Physical Chemistry C, 2018, 122, 4822-4827.	3.1	30
23	Influence of a cobalt additive in spiro-OMeTAD on charge recombination and carrier density in perovskite solar cells investigated using impedance spectroscopy. Physical Chemistry Chemical Physics, 2018, 20, 10114-10120.	2.8	26
24	Highly compact and uniform CH3NH3Sn0.5Pb0.5I3 films for efficient panchromatic planar perovskite solar cells. Science Bulletin, 2016, 61, 1558-1562.	9.0	25
25	Wavelength-switchable photocurrent in a hybrid TiO₂â€“Ag nanocluster photoelectrode. Chemical Communications, 2015, 51, 12072-12075.	4.1	24
26	Strategies toward Stable Perovskite Solar Cells. Advanced Materials Interfaces, 2018, 5, 1800264.	3.7	24
27	Toward Highâ€Throughput Texturing of Polymer Foils for Enhanced Light Trapping in Flexible Perovskite Solar Cells Using Rollâ€toâ€Roll Hot Embossing. Advanced Engineering Materials, 2020, 22, 1901217.	3.5	24
28	Overcoming Bulk Recombination Limits of Layered Perovskite Solar Cells with Mesoporous Substrates. Journal of Physical Chemistry C, 2018, 122, 14177-14185.	3.1	20
29	Large Conduction Band Energy Offset Is Critical for High Fill Factors in Inorganic Perovskite Solar Cells. ACS Energy Letters, 2020, 5, 2343-2348.	17.4	20
30	Configuration-centered photovoltaic applications of metal halide perovskites. Journal of Materials Chemistry A, 2017, 5, 902-909.	10.3	18
31	Highly efficient Zn2SnO4 perovskite solar cells through band alignment engineering. Chemical Communications, 2019, 55, 14673-14676.	4.1	18
32	Texture Formation in Polycrystalline Thin Films of Allâ€Inorganic Lead Halide Perovskite. Advanced Materials, 2021, 33, e2007224.	21.0	18
33	Managing Phase Purities and Crystal Orientation for Highâ€Performance and Photostable Cesium Lead Halide Perovskite Solar Cells. Solar Rrl, 2020, 4, 2000213.	5.8	17
34	Quantitative Predictions of Moisture-Driven Photoemission Dynamics in Metal Halide Perovskites via Machine Learning. Journal of Physical Chemistry Letters, 2022, 13, 2254-2263.	4.6	13
35	Bias-dependent effects in planar perovskite solar cells based on CH3NH3PbI3â^'xClx films. Journal of Colloid and Interface Science, 2015, 453, 9-14.	9.4	11
36	Reply to the â€œComment on the publication â€˜Ferroelectricity-free lead halide perovskitesâ€™ by Gomez et al.â€•by Colsmann et al.. Energy and Environmental Science, 2020, 13, 1892-1895.	30.8	10

#	Article	IF	Citations
37	Perovskite solar cells. , 2019, , 417-446.		9
38	Insight into the liquid state of organo-lead halide perovskites and their new roles in dye-sensitized solar cells. Journal of Materials Chemistry A, 2014, 2, 10355.	10.3	8
39	Ultrathin Hole Extraction Layer for Efficient Inverted Perovskite Solar Cells. ACS Omega, 2018, 3, 6339-6345.	3.5	5
40	Waterâ€Induced and Wavelengthâ€Dependent Light Absorption and Emission Dynamics in Tripleâ€Cation Halide Perovskites. Advanced Optical Materials, 2021, 9, 2100710.	7.3	0