Li Na Quan

List of Publications by Year
in descending order

58 papers	17,325 citations	76294 40 h-index	155592 55 g-index
59 all docs	59 docs citations	59 times ranked	15704 citing authors

#	Article	IF	Citations
1	Lead-free halide double perovskites: Toward stable and sustainable optoelectronic devices. Materials Today, 2021, 49, 123-144.	8.3	57
2	Vibrational relaxation dynamics in layered perovskite quantum wells. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	33
3	State of the Art and Prospects for Halide Perovskite Nanocrystals. ACS Nano, 2021, 15, 10775-10981.	7.3	705
4	A New Perspective and Design Principle for Halide Perovskites: Ionic Octahedron Network (ION). Nano Letters, 2021, 21, 5415-5421.	4.5	9
5	Photonics for enhanced perovskite optoelectronics. Nanophotonics, 2021, 10, 1941-1942.	2.9	3
6	Lattice Dynamics and Optoelectronic Properties of Vacancy-Ordered Double Perovskite Cs₂TeX₆ (X = Cl^{â€“}, Br^{â€“}, I^{â€“}) Single Crystals. Journal of Physical Chemistry C, 2021, 125, 25126-25139.	1.5	17
7	Horizons Community Board collection: optical and photonic materials. Nanoscale Horizons, 2021, 6, 936-938.	4.1	0
8	Edge stabilization in reduced-dimensional perovskites. Nature Communications, 2020, 11, 170.	5.8	147
9	Structural and spectral dynamics of single-crystalline Ruddlesden-Popper phase halide perovskite blue light-emitting diodes. Science Advances, 2020, 6, eaay4045.	4.7	88
10	Efficient near-infrared light-emitting diodes based on quantum dots in layered perovskite. Nature Photonics, 2020, 14, 227-233.	15.6	136
11	Lead-free Cesium Europium Halide Perovskite Nanocrystals. Nano Letters, 2020, 20, 3734-3739.	4.5	103
12	Polyethylenimine ethoxylated interlayer-mediated ZnO interfacial engineering for high-performance and low-temperature processed flexible perovskite solar cells: A simple and viable route for one-step processed CH3NH3PbI3. Journal of Power Sources, 2019, 438, 226956.	4.0	22
13	Nanowires for Photonics. Chemical Reviews, 2019, 119, 9153-9169.	23.0	173
14	Copper(I)-Based Highly Emissive All-Inorganic Rare-Earth Halide Clusters. Matter, 2019, 1, 180-191.	5.0	35
15	51.3: Invited Paper: Perovskite Light Emitters via Dimensional and Structural Control. Digest of Technical Papers SID International Symposium, 2019, 50, 568-568.	0.1	0
16	Ultrafast narrowband exciton routing within layered perovskite nanoplatelets enables low-loss luminescent solar concentrators. Nature Energy, 2019, 4, 197-205.	19.8	132
17	Quantitative imaging of anion exchange kinetics in halide perovskites. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12648-12653.	3.3	84
18	Anchored Ligands Facilitate Efficient B-Site Doping in Metal Halide Perovskites. Journal of the American Chemical Society, 2019, 141, 8296-8305.	6.6	53

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19	Perovskites for Next-Generation Optical Sources. Chemical Reviews, 2019, 119, 7444-7477.	23.0	640
20	Pressure-induced semiconductor-to-metal phase transition of a charge-ordered indium halide perovskite. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 23404-23409.	3.3	45
21	Towards efficient and stable perovskite solar cells employing non-hygroscopic F4-TCNQ doped TFB as the hole-transporting material. Nanoscale, 2019, 11, 19586-19594.	2.8	26
22	Self-powered reduced-dimensionality perovskite photodiodes with controlled crystalline phase and improved stability. Nano Energy, 2019, 57, 761-770.	8.2	43
23	Spectrally Resolved Ultrafast Exciton Transfer in Mixed Perovskite Quantum Wells. Journal of Physical Chemistry Letters, 2019, 10, 419-426.	2.1	74
24	Bright colloidal quantum dot light-emitting diodes enabled by efficient chlorination. Nature Photonics, 2018, 12, 159-164.	15.6	303
25	Perovskiteâ€"Gold Nanorod Hybrid Photodetector with High Responsivity and Low Driving Voltage. Advanced Optical Materials, 2018, 6, 1701397.	3.6	36
26	Perovskite seeding growth of formamidinium-lead-iodide-based perovskites for efficient and stable solar cells. Nature Communications, 2018, 9, 1607.	5.8	309
27	2D matrix engineering for homogeneous quantum dot coupling in photovoltaic solids. Nature Nanotechnology, 2018, 13, 456-462.	15.6	252
28	Amideâ€Catalyzed Phaseâ€Selective Crystallization Reduces Defect Density in Wideâ€Bandgap Perovskites. Advanced Materials, 2018, 30, e1706275.	11.1	80
29	Excitonic Creation of Highly Luminescent Defects In Situ in Working Organic Lightâ€Emitting Diodes. Advanced Optical Materials, 2018, 6, 1700856.	3.6	6
30	Highly Efficient Visible Colloidal Lead-Halide Perovskite Nanocrystal Light-Emitting Diodes. Nano Letters, 2018, 18, 3157-3164.	4.5	199
31	Infrared Cavity-Enhanced Colloidal Quantum Dot Photovoltaics Employing Asymmetric Multilayer Electrodes. ACS Energy Letters, 2018, 3, 2908-2913.	8.8	20
32	Perovskite light-emitting diodes with external quantum efficiency exceeding 20 per cent. Nature, 2018, 562, 245-248.	13.7	2,589
33	Perovskites for Light Emission. Advanced Materials, 2018, 30, e1801996.	11.1	417
34	Color-stable highly luminescent sky-blue perovskite light-emitting diodes. Nature Communications, 2018, 9, 3541.	5.8	536
35	Spin control in reduced-dimensional chiral perovskites. Nature Photonics, 2018, 12, 528-533.	15.6	371
36	2D Metal Oxyhalideâ€Derived Catalysts for Efficient CO₂ Electroreduction. Advanced Materials, 2018, 30, e1802858.	11.1	200

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37	Efficient and stable solution-processed planar perovskite solar cells via contact passivation. Science, 2017, 355, 722-726.	6.0	2,019
38	Highly Oriented Low-Dimensional Tin Halide Perovskites with Enhanced Stability and Photovoltaic Performance. Journal of the American Chemical Society, 2017, 139, 6693-6699.	6.6	723
39	Tailoring the Energy Landscape in Quasi-2D Halide Perovskites Enables Efficient Green-Light Emission. Nano Letters, 2017, 17, 3701-3709.	4.5	409
40	Graphene Oxide Shells on Plasmonic Nanostructures Lead to High-Performance Photovoltaics: A Model Study Based on Dye-Sensitized Solar Cells. ACS Energy Letters, 2017, 2, 117-123.	8.8	17
41	Highly Emissive Green Perovskite Nanocrystals in a Solid State Crystalline Matrix. Advanced Materials, 2017, 29, 1605945.	11.1	309
42	Chloride Passivation of ZnO Electrodes Improves Charge Extraction in Colloidal Quantum Dot Photovoltaics. Advanced Materials, 2017, 29, 1702350.	11.1	126
43	Biexciton Resonances Reveal Exciton Localization in Stacked Perovskite Quantum Wells. Journal of Physical Chemistry Letters, 2017, 8, 3895-3901.	2.1	41
44	Plasmonic Solar Cells: From Rational Design to Mechanism Overview. Chemical Reviews, 2016, 116, 14982-15034.	23.0	333
45	Layer-by-Layer Self-Assembled Graphene Multilayers as Pt-Free Alternative Counter Electrodes in Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 11488-11498.	4.0	20
46	Highly Efficient Perovskiteâ€Quantumâ€Dot Lightâ€Emitting Diodes by Surface Engineering. Advanced Materials, 2016, 28, 8718-8725.	11.1	917
47	Pure Cubicâ€Phase Hybrid Iodobismuthates AgBi₂I₇ for Thinâ€Film Photovoltaics. Angewandte Chemie - International Edition, 2016, 55, 9586-9590.	7.2	201
48	Pure Cubicâ€Phase Hybrid Iodobismuthates AgBi₂I₇ for Thinâ€Film Photovoltaics. Angewandte Chemie, 2016, 128, 9738-9742.	1.6	42
49	Perovskite energy funnels for efficient light-emitting diodes. Nature Nanotechnology, 2016, 11, 872-877.	15.6	1,868
50	Ligand-Stabilized Reduced-Dimensionality Perovskites. Journal of the American Chemical Society, 2016, 138, 2649-2655.	6.6	1,157
51	Perovskiteâ€“fullerene hybrid materials suppress hysteresis in planar diodes. Nature Communications, 2015, 6, 7081.	5.8	948
52	A two-step route to planar perovskite cells exhibiting reduced hysteresis. Applied Physics Letters, 2015, 106, .	1.5	80
53	Soft-template-carbonization route to highly textured mesoporous carbonâ€“TiO₂ inverse opals for efficient photocatalytic and photoelectrochemical applications. Physical Chemistry Chemical Physics, 2014, 16, 9023-9030.	1.3	56
54	Mesoporous Carbonâ€TiO₂ Beads with Nanotextured Surfaces as Photoanodes in Dyeâ€Sensitized Solar Cells. ChemSusChem, 2014, 7, 2590-2596.	3.6	20

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55	Configuration-controlled Au nanocluster arrays on inverse micelle nano-patterns: versatile platforms for SERS and SPR sensors. Nanoscale, 2013, 5, 12261.	2.8	40
56	A Softâ€Templateâ€Conversion Route to Fabricate Nanopatterned Hybrid Pt/Carbon for Potential Use in Counter Electrodes of Dyeâ€Sensitized Solar Cells. Macromolecular Rapid Communications, 2013, 34, 1487-1492.	2.0	5
57	Enhanced photocatalytic activity of C, F-codoped TiO2 loaded with AgCl. Journal of Alloys and Compounds, 2013, 560, 20-26.	2.8	51
58	Controll over the Au@Ag Core-shell Nanoparticle 2D Patterns via Diblock Copolymer Inverse Micelle Templates and Investigation of the Surface Plasmon Based Optical Property. Journal of the Korean Chemical Society, 2013, 57, 618-624.	0.2	0