Li Na Quan

List of Publications by Year in Descending Order

57 papers	12,533 citations	35 h-index	59 g-index
59 ext. papers	14,877 ext. citations	18.9 avg, IF	6.3 L-index

#	Paper	IF	Citations
57	Lattice Dynamics and Optoelectronic Properties of Vacancy-Ordered Double Perovskite Cs2TeX6 (X = Cl□Br□I□Single Crystals. *Journal of Physical Chemistry C*, **2021**, 125, 25126-25139	3.8	5
56	Photonics for enhanced perovskite optoelectronics. *Nanophotonics*, **2021**, 10, 1941-1942	6.3	1
55	Vibrational relaxation dynamics in layered perovskite quantum wells. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	3
54	State of the Art and Prospects for Halide Perovskite Nanocrystals. *ACS Nano*, **2021**, 15, 10775-10981	16.7	222
53	A New Perspective and Design Principle for Halide Perovskites: Ionic Octahedron Network (ION). *Nano Letters*, **2021**, 21, 5415-5421	11.5	3
52	Lead-free halide double perovskites: Toward stable and sustainable optoelectronic devices. *Materials Today*, **2021**,	21.8	16
51	Structural and spectral dynamics of single-crystalline Ruddlesden-Popper phase halide perovskite blue light-emitting diodes. *Science Advances*, **2020**, 6, eaay4045	14.3	53
50	Efficient near-infrared light-emitting diodes based on quantum dots in layered perovskite. *Nature Photonics*, **2020**, 14, 227-233	33.9	91
49	Lead-free Cesium Europium Halide Perovskite Nanocrystals. *Nano Letters*, **2020**, 20, 3734-3739	11.5	54
48	Edge stabilization in reduced-dimensional perovskites. *Nature Communications*, **2020**, 11, 170	17.4	79
47	Ultrafast narrowband exciton routing within layered perovskite nanoplatelets enables low-loss luminescent solar concentrators. *Nature Energy*, **2019**, 4, 197-205	62.3	87
46	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	11.5	52
45	Anchored Ligands Facilitate Efficient B-Site Doping in Metal Halide Perovskites. *Journal of the American Chemical Society*, **2019**, 141, 8296-8305	16.4	32
44	Perovskites for Next-Generation Optical Sources. *Chemical Reviews*, **2019**, 119, 7444-7477	68.1	391
43	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	8.9	17
42	Nanowires for Photonics. *Chemical Reviews*, **2019**, 119, 9153-9169	68.1	95
41	Copper(I)-Based Highly Emissive All-Inorganic Rare-Earth Halide Clusters. *Matter*, **2019**, 1, 180-191	12.7	27

40	51.3: Invited Paper: Perovskite Light Emitters via Dimensional and Structural Control. *Digest of Technical Papers SID International Symposium*, **2019**, 50, 568-568	0.5	
39	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	11.5	25
38	Towards efficient and stable perovskite solar cells employing non-hygroscopic F4-TCNQ doped TFB as the hole-transporting material. *Nanoscale*, **2019**, 11, 19586-19594	7.7	22
37	Self-powered reduced-dimensionality perovskite photodiodes with controlled crystalline phase and improved stability. *Nano Energy*, **2019**, 57, 761-770	17.1	31
36	Spectrally Resolved Ultrafast Exciton Transfer in Mixed Perovskite Quantum Wells. *Journal of Physical Chemistry Letters*, **2019**, 10, 419-426	6.4	53
35	Bright colloidal quantum dot light-emitting diodes enabled by efficient chlorination. *Nature Photonics*, **2018**, 12, 159-164	33.9	206
34	Perovskite□old Nanorod Hybrid Photodetector with High Responsivity and Low Driving Voltage. *Advanced Optical Materials*, **2018**, 6, 1701397	8.1	30
33	Perovskite seeding growth of formamidinium-lead-iodide-based perovskites for efficient and stable solar cells. *Nature Communications*, **2018**, 9, 1607	17.4	218
32	2D matrix engineering for homogeneous quantum dot coupling in photovoltaic solids. *Nature Nanotechnology*, **2018**, 13, 456-462	28.7	196
31	Amide-Catalyzed Phase-Selective Crystallization Reduces Defect Density in Wide-Bandgap Perovskites. *Advanced Materials*, **2018**, 30, e1706275	24	62
30	Excitonic Creation of Highly Luminescent Defects In Situ in Working Organic Light-Emitting Diodes. *Advanced Optical Materials*, **2018**, 6, 1700856	8.1	5
29	Highly Efficient Visible Colloidal Lead-Halide Perovskite Nanocrystal Light-Emitting Diodes. *Nano Letters*, **2018**, 18, 3157-3164	11.5	160
28	Spin control in reduced-dimensional chiral perovskites. *Nature Photonics*, **2018**, 12, 528-533	33.9	205
27	2D Metal Oxyhalide-Derived Catalysts for Efficient CO Electroreduction. *Advanced Materials*, **2018**, 30, e1802858	24	123
26	Infrared Cavity-Enhanced Colloidal Quantum Dot Photovoltaics Employing Asymmetric Multilayer Electrodes. *ACS Energy Letters*, **2018**, 3, 2908-2913	20.1	12
25	Perovskite light-emitting diodes with external quantum efficiency exceeding 20 per cent. *Nature*, **2018**, 562, 245-248	50.4	1802
24	Perovskites for Light Emission. *Advanced Materials*, **2018**, 30, e1801996	24	270
23	Color-stable highly luminescent sky-blue perovskite light-emitting diodes. *Nature Communications*, **2018**, 9, 3541	17.4	370

22	Efficient and stable solution-processed planar perovskite solar cells via contact passivation. *Science*, **2017**, 355, 722-726	33.3	1667
21	Highly Oriented Low-Dimensional Tin Halide Perovskites with Enhanced Stability and Photovoltaic Performance. *Journal of the American Chemical Society*, **2017**, 139, 6693-6699	16.4	558
20	Tailoring the Energy Landscape in Quasi-2D Halide Perovskites Enables Efficient Green-Light Emission. *Nano Letters*, **2017**, 17, 3701-3709	11.5	309
19	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	20.1	16
18	Highly Emissive Green Perovskite Nanocrystals in a Solid State Crystalline Matrix. *Advanced Materials*, **2017**, 29, 1605945	24	252
17	Chloride Passivation of ZnO Electrodes Improves Charge Extraction in Colloidal Quantum Dot Photovoltaics. *Advanced Materials*, **2017**, 29, 1702350	24	97
16	Biexciton Resonances Reveal Exciton Localization in Stacked Perovskite Quantum Wells. *Journal of Physical Chemistry Letters*, **2017**, 8, 3895-3901	6.4	30
15	Highly Efficient Perovskite-Quantum-Dot Light-Emitting Diodes by Surface Engineering. *Advanced Materials*, **2016**, 28, 8718-8725	24	700
14	Pure Cubic-Phase Hybrid Iodobismuthates AgBi2 I7 for Thin-Film Photovoltaics. *Angewandte Chemie - International Edition*, **2016**, 55, 9586-90	16.4	156
13	Pure Cubic-Phase Hybrid Iodobismuthates AgBi2I7 for Thin-Film Photovoltaics. *Angewandte Chemie* , **2016**, 128, 9738-9742	3.6	35
12	Perovskite energy funnels for efficient light-emitting diodes. *Nature Nanotechnology*, **2016**, 11, 872-877	28.7	1484
11	Ligand-Stabilized Reduced-Dimensionality Perovskites. *Journal of the American Chemical Society*, **2016**, 138, 2649-55	16.4	889
10	Plasmonic Solar Cells: From Rational Design to Mechanism Overview. *Chemical Reviews*, **2016**, 116, 14982-15034	28.1	450
9	Layer-by-Layer Self-Assembled Graphene Multilayers as Pt-Free Alternative Counter Electrodes in Dye-Sensitized Solar Cells. *ACS Applied Materials & Interfaces*, **2016**, 8, 11488-98	9.5	20
8	Perovskite-fullerene hybrid materials suppress hysteresis in planar diodes. *Nature Communications*, **2015**, 6, 7081	17.4	815
7	A two-step route to planar perovskite cells exhibiting reduced hysteresis. *Applied Physics Letters*, **2015**, 106, 143902	3.4	74
6	Soft-template-carbonization route to highly textured mesoporous carbon-TiO inverse opals for efficient photocatalytic and photoelectrochemical applications. *Physical Chemistry Chemical Physics*, **2014**, 16, 9023-30	3.6	51
5	Mesoporous carbon-TiO beads with nanotextured surfaces as photoanodes in dye-sensitized solar cells. *ChemSusChem*, **2014**, 7, 2590-6	8.3	19

4	Configuration-controlled Au nanocluster arrays on inverse micelle nano-patterns: versatile platforms for SERS and SPR sensors. *Nanoscale*, **2013**, 5, 12261-71	7.7	38
3	A soft-template-conversion route to fabricate nanopatterned hybrid pt/carbon for potential use in counter electrodes of dye-sensitized solar cells. *Macromolecular Rapid Communications*, **2013**, 34, 1487-92	4.8	5
2	Enhanced photocatalytic activity of C, F-codoped TiO2 loaded with AgCl. *Journal of Alloys and Compounds*, **2013**, 560, 20-26	5.7	50
1	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		