Zhijun Ning

List of Publications by Year
in descending order

93 papers	12,529 citations	53939 47 h-index	54771 88 g-index
93 all docs	93 docs citations	93 times ranked	15293 citing authors

#	Article	IF	Citations
1	Chances and challenges for tin perovskites. Trends in Chemistry, 2022, 4, 1-4.	4.4	7
2	The 3D-structure-mediated growth of zero-dimensional Cs₄SnX₆ nanocrystals. Nanoscale, 2022, 14, 2248-2255.	2.8	19
3	Quasiâ€2D Bilayer Surface Passivation for High Efficiency Narrow Bandgap Perovskite Solar Cells. Angewandte Chemie - International Edition, 2022, 61, .	7.2	40
4	Large Photomultiplication by Charge-Self-Trapping for High-Response Quantum Dot Infrared Photodetectors. ACS Applied Materials & Interfaces, 2022, 14, 14783-14790.	4.0	12
5	Quasiâ€2D Bilayer Surface Passivation for High Efficiency Narrow Bandgap Perovskite Solar Cells. Angewandte Chemie, 2022, 134, .	1.6	5
6	Quantum-size-tuned heterostructures enable efficient and stable inverted perovskite solar cells. Nature Photonics, 2022, 16, 352-358.	15.6	233
7	Large-Size and Polarization-Sensitive Two-Dimensional Sn Perovskite Single Crystals. , 2022, 4, 987-994.		8
8	Smooth and Compact FASnI₃ Films for Lead-Free Perovskite Solar Cells with over 14% Efficiency. ACS Energy Letters, 2022, 7, 2079-2083.	8.8	88
9	Band alignment towards high-efficiency NiOx-based Sn-Pb mixed perovskite solar cells. Science China Materials, 2021, 64, 537-546.	3.5	23
10	Tin Halide Perovskite Solar Cells: An Emerging Thin-Film Photovoltaic Technology. Accounts of Materials Research, 2021, 2, 210-219.	5.9	147
11	Band Engineering via Gradient Molecular Dopants for CsFA Perovskite Solar Cells. Advanced Functional Materials, 2021, 31, 2010572.	7.8	12
12	Lowâ€Dimensional Inorganic Tin Perovskite Solar Cells Prepared by Templated Growth. Angewandte Chemie, 2021, 133, 16466-16472.	1.6	13
13	Lowâ€Dimensional Inorganic Tin Perovskite Solar Cells Prepared by Templated Growth. Angewandte Chemie - International Edition, 2021, 60, 16330-16336.	7.2	48
14	Frontispiz: Lowâ€Dimensional Inorganic Tin Perovskite Solar Cells Prepared by Templated Growth. Angewandte Chemie, 2021, 133, .	1.6	0
15	Chiral Perovskite Spin-Optoelectronics and Spintronics: Toward Judicious Design and Application. , 2021, 3, 1266-1275.		52
16	Frontispiece: Lowâ€Dimensional Inorganic Tin Perovskite Solar Cells Prepared by Templated Growth. Angewandte Chemie - International Edition, 2021, 60, .	7.2	0
17	Giant Spin Splitting in Chiral Perovskites Based on Local Electrical Field Engineering. Journal of Physical Chemistry Letters, 2021, 12, 6492-6498.	2.1	12
18	The Main Progress of Perovskite Solar Cells in 2020â€“2021. Nano-Micro Letters, 2021, 13, 152.	14.4	250

#	Article	IF	Citations
19	One-Step Synthesis of SnI₂Â·(DMSO)_{<i>x</i>} Adducts for High-Performance Tin Perovskite Solar Cells. Journal of the American Chemical Society, 2021, 143, 10970-10976.	6.6	280
20	Passivation of the Buried Interface via Preferential Crystallization of 2D Perovskite on Metal Oxide Transport Layers. Advanced Materials, 2021, 33, e2103394.	11.1	99
21	Dehydration-Reaction-Based Low-Temperature Synthesis of Amorphous SnO<i>_x</i> for High-Performance Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 47603-47609.	4.0	3
22	Molecularly manipulating orientation of hole transporting layers and mitigation of electrical loss for dopant-free CsPbI2Br solar cells. Science China Chemistry, 2021, 64, 1607.	4.2	2
23	Silicon: quantum dot photovoltage triodes. Nature Communications, 2021, 12, 6696.	5.8	22
24	Cs0.15FA0.85PbI3/CsxFA1-xPbI3 Core/Shell Heterostructure for Highly Stable and Efficient Perovskite Solar Cells. Cell Reports Physical Science, 2020, 1, 100224.	2.8	35
25	A Multi-functional Molecular Modifier Enabling Efficient Large-Area Perovskite Light-Emitting Diodes. Joule, 2020, 4, 1977-1987.	11.7	111
26	Peak force visible microscopy. Soft Matter, 2020, 16, 8372-8379.	1.2	2
27	Toward high efficiency tin perovskite solar cells: A perspective. Applied Physics Letters, 2020, 117, .	1.5	25
28	Integrated Structure and Device Engineering for High Performance and Scalable Quantum Dot Infrared Photodetectors. Small, 2020, 16, e2003397.	5.2	67
29	Thiophene Cation Intercalation to Improve Bandâ€Edge Integrity in Reducedâ€Dimensional Perovskites. Angewandte Chemie - International Edition, 2020, 59, 13977-13983.	7.2	36
30	Improved Interface Contact for Highly Stable All-Inorganic CsPbI₂Br Planar Perovskite Solar Cells. ACS Applied Energy Materials, 2020, 3, 5173-5181.	2.5	16
31	Thiophene Cation Intercalation to Improve Bandâ€Edge Integrity in Reducedâ€Dimensional Perovskites. Angewandte Chemie, 2020, 132, 14081-14087.	1.6	16
32	Two-dimensional tin perovskite nanoplate for pure red light-emitting diodes. Journal Physics D: Applied Physics, 2020, 53, 414005.	1.3	25
33	High quality silicon: Colloidal quantum dot heterojunction based infrared photodetector. Applied Physics Letters, 2020, 116, .	1.5	38
34	Inverted Si:PbS Colloidal Quantum Dot Heterojunction-Based Infrared Photodetector. ACS Applied Materials & Interfaces, 2020, 12, 15414-15421.	4.0	53
35	Theoretical Study of Using Kinetics Strategy to Enhance the Stability of Tin Perovskite. Energy and Environmental Materials, 2020, 3, 541-547.	7.3	13
36	Solution-processed upconversion photodetectors based on quantum dots. Nature Electronics, 2020, 3, 251-258.	13.1	135

#	Article	IF	Citations
37	Ultra-high open-circuit voltage of tin perovskite solar cells via an electron transporting layer design. Nature Communications, 2020, 11, 1245.	5.8	408
38	Amorphous ZnO/PbS Quantum Dots Heterojunction for Efficient Responsivity Broadband Photodetectors. ACS Applied Materials & Interfaces, 2020, 12, 8403-8410.	4.0	47
39	Low-dimensionality perovskites yield high electroluminescence. Science Bulletin, 2020, 65, 1057-1060.	4.3	15
40	Planar core based starburst triphenylamine molecules as hole transporting materials for high-performance perovskite solar cells. Science China Chemistry, 2019, 62, 5-6.	4.2	4
41	Highly stable hybrid perovskite light-emitting diodes based on Dion-Jacobson structure. Science Advances, 2019, 5, eaaw8072.	4.7	188
42	Highly Efficient and Stable Planar Perovskite Solar Cells with Modulated Diffusion Passivation Toward High Power Conversion Efficiency and Ultrahigh Fill Factor. Solar Rrl, 2019, 3, 1900293.	3.1	87
43	Bi-inorganic-ligand coordinated colloidal quantum dot ink. Chemical Communications, 2019, 55, 9483-9486.	2.2	11
44	Efficient and Stable Inverted Perovskite Solar Cells Incorporating Secondary Amines. Advanced Materials, 2019, 31, e1903559.	11.1	128
45	Stabilizing the CsSnCl₃ Perovskite Lattice by B-Site Substitution for Enhanced Light Emission. Chemistry of Materials, 2019, 31, 4999-5004.	3.2	57
46	Stability improvement under high efficiencyâ€"next stage development of perovskite solar cells. Science China Chemistry, 2019, 62, 684-707.	4.2	50
47	Emerging highly emissive and stable white emitting â€œphosphoresâ€•based on lead-free inorganic halide perovskites. Science China Chemistry, 2019, 62, 287-288.	4.2	5
48	Colloidal-quantum-dot-in-perovskite nanowires. Infrared Physics and Technology, 2019, 98, 16-22.	1.3	16
49	Energy Level Tuning of PEDOT:PSS for High Performance Tinâ€Lead Mixed Perovskite Solar Cells. Solar Rrl, 2019, 3, 1800256.	3.1	56
50	Quasiâ€2D Inorganic CsPbBr₃ Perovskite for Efficient and Stable Lightâ€Emitting Diodes. Advanced Functional Materials, 2018, 28, 1801193.	7.8	108
51	Highly Efficient Inverted Structural Quantum Dot Solar Cells. Advanced Materials, 2018, 30, 1704882.	11.1	88
52	Efficient defect-controlled photocatalytic hydrogen generation based on near-infrared Cu-In-Zn-S quantum dots. Nano Research, 2018, 11, 1379-1388.	5.8	41
53	Multi-functional organic molecules for surface passivation of perovskite. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 355, 42-47.	2.0	12
54	Bidentate Ligand-Passivated CsPbI₃ Perovskite Nanocrystals for Stable Near-Unity Photoluminescence Quantum Yield and Efficient Red Light-Emitting Diodes. Journal of the American Chemical Society, 2018, 140, 562-565.	6.6	745

#	ARTICLE	IF	CITATIONS
55	Palladium single atoms supported by interwoven carbon nanotube and manganese oxide nanowire networks for enhanced electrocatalysis. Journal of Materials Chemistry A, 2018, 6, 23366-23377.	5.2	68
56	Ambipolar Grapheneâ€“Quantum Dot Phototransistors with CMOS Compatibility. Advanced Optical Materials, 2018, 6, 1800985.	3.6	50
57	A Colloidalâ€Quantumâ€Dot Infrared Photodiode with High Photoconductive Gain. Small, 2018, 14, e1803158.	5.2	39
58	Organicâ^'Inorganic Layered and Hollow Tin Bromide Perovskite with Tunable Broadband Emission. ACS Applied Materials & Interfaces, 2018, 10, 34363-34369.	4.0	97
59	Supersaturation controlled growth of MAFAPbI3 perovskite film for high efficiency solar cells. Science China Chemistry, 2018, 61, 1278-1284.	4.2	49
60	Quaternary two dimensional Znâ€“Agâ€“Inâ€“S nanosheets for highly efficient photocatalytic hydrogen generation. Journal of Materials Chemistry A, 2018, 6, 11670-11675.	5.2	17
61	Improved Efficiency and Stability of Perovskite Solar Cells Induced by CÏ£¾O Functionalized Hydrophobic Ammoniumâ€Based Additives. Advanced Materials, 2018, 30, 1703670.	11.1	132
62	2D-Quasi-2D-3D Hierarchy Structure for Tin Perovskite Solar Cells with Enhanced Efficiency and Stability. Joule, 2018, 2, 2732-2743.	11.7	343
63	Perovskite nanocrystals: synthesis, properties and applications. Science Bulletin, 2017, 62, 369-380.	4.3	96
64	Colloidal quantum-dots surface and device structure engineering for high-performance light-emitting diodes. National Science Review, 2017, 4, 170-183.	4.6	98
65	0Dâ€“2D Quantum Dot: Metal Dichalcogenide Nanocomposite Photocatalyst Achieves Efficient Hydrogen Generation. Advanced Materials, 2017, 29, 1605646.	11.1	89
66	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
67	Hole-transporting layer-free inverted planar mixed lead-tin perovskite-based solar cells. Frontiers of Optoelectronics, 2017, 10, 103-110.	1.9	15
68	Symmetrization of the Crystal Lattice of MAPbI₃ Boosts the Performance and Stability of Metalâ€“Perovskite Photodiodes. Advanced Materials, 2017, 29, 1701656.	11.1	53
69	Optical study on intrinsic exciton states in high-quality <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CH</mml:mi><mml:mn>3</mml:mn></mml single crystals. Physical Review B, 2017, 96, .	1.3	26
70	Improving the Photocurrent in Quantum-Dot-Sensitized Solar Cells by Employing Alloy PbxCd1â^'xS Quantum Dots as Photosensitizers. Nanomaterials, 2016, 6, 97.	1.9	25
71	Nanostructured Solar Cells. Nanomaterials, 2016, 6, 145.	1.9	10
72	Highly efficient quantum dot near-infrared light-emitting diodes. Nature Photonics, 2016, 10, 253-257.	15.6	361

#	Article	IF	Citations
73	Colloidal quantum dot ligand engineering for high performance solar cells. Energy and Environmental Science, 2016, 9, 1130-1143.	15.6	297
74	Colloidal Quantum Dot Solar Cells. Chemical Reviews, 2015, 115, 12732-12763.	23.0	987
75	Quantum-dot-in-perovskite solids. Nature, 2015, 523, 324-328.	13.7	468
76	Perovskiteâ€"fullerene hybrid materials suppress hysteresis in planar diodes. Nature Communications, 2015, 6, 7081.	5.8	948
77	Colloidal Quantum Dot Photovoltaics Enhanced by Perovskite Shelling. Nano Letters, 2015, 15, 7539-7543.	4.5	173
78	Hybrid tandem solar cells with depleted-heterojunction quantum dot and polymer bulk heterojunction subcells. Nano Energy, 2015, 17, 196-205.	8.2	43
79	Solar Cells Based on Inks of n-Type Colloidal Quantum Dots. ACS Nano, 2014, 8, 10321-10327.	7.3	158
80	Air-stable n-type colloidal quantum dot solids. Nature Materials, 2014, 13, 822-828.	13.3	529
81	Graded Doping for Enhanced Colloidal Quantum Dot Photovoltaics. Advanced Materials, 2013, 25, 1719-1723.	11.1	164
82	Self-Assembled, Nanowire Network Electrodes for Depleted Bulk Heterojunction Solar Cells (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	11.1	5
83	Systematic optimization of quantum junction colloidal quantum dot solar cells. Applied Physics Letters, 2012, 101, 151112.	1.5	52
84	Hybrid passivated colloidal quantum dot solids. Nature Nanotechnology, 2012, 7, 577-582.	15.6	1,100
85	Allâ€Inorganic Colloidal Quantum Dot Photovoltaics Employing Solutionâ€Phase Halide Passivation. Advanced Materials, 2012, 24, 6295-6299.	11.1	197
86	Use of colloidal upconversion nanocrystals for energy relay solar cell light harvesting in the near-infrared region. Journal of Materials Chemistry, 2012, 22, 16709.	6.7	101
87	Type-II colloidal quantum dot sensitized solar cells with a thiourea based organic redox couple. Journal of Materials Chemistry, 2012, 22, 6032.	6.7	41
88	Role of surface ligands in optical properties of colloidal CdSe/CdS quantum dots. Physical Chemistry Chemical Physics, 2011, 13, 5848.	1.3	54
89	Solar cells sensitized with type-II ZnSeâ€"CdS core/shell colloidal quantum dots. Chemical Communications, 2011, 47, 1536-1538.	2.2	161
90	Quantum Rodâ€Sensitized Solar Cells. ChemSusChem, 2011, 4, 1741-1744.	3.6	10

#	Article	IF	Citations
91	Pure Organic Redox Couple for Quantumâ€Dotâ€Sensitized Solar Cells. Chemistry - A European Journal, 2011, 17, 6330-6333.	1.7	16
92	Controlling yield and morphology for gold nanorods in a seed-mediated synthesis method for cell imaging. , 2010, , .		0
93	Triarylamine: a promising core unit for efficient photovoltaic materials. Chemical Communications, 2009, , 5483.	2.2	721