

Cong Chen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82 papers	3,544 citations	30 h-index	58 g-index
87 ext. papers	4,656 ext. citations	12.3 avg, IF	5.61 L-index

#	Paper	IF	Citations
82	Urbach Energy and Open-Circuit Voltage Deficit for Mixed Anion-Cation Perovskite Solar Cells.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	7
81	Passivating buried interface with multifunctional novel ionic liquid containing simultaneously fluorinated anion and cation yielding stable perovskite solar cells over 23% efficiency. <i>Journal of Energy Chemistry</i> , 2022 , 69, 659-666	12	5
80	Self-Formed Multifunctional Grain Boundary Passivation Layer Achieving 22.4% Efficient and Stable Perovskite Solar Cells. <i>Solar Rrl</i> , 2022 , 6, 2100893	7.1	0
79	In Situ Electrochemically Formed Ag/NiOOH/Ni3S2 Heterostructure Electrocatalysts with Exceptional Performance toward Oxygen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 5976-5985	8.3	0
78	Organic ionic plastic crystals: A promising additive for achieving efficient and stable CsPbI2Br perovskite solar cells. <i>Journal of Physics and Chemistry of Solids</i> , 2022 , 168, 110798	3.9	1
77	Functionalizing phenethylammonium by methoxy to achieve low-dimensional interface defects passivation for efficient and stable perovskite solar cells. <i>Nanotechnology</i> , 2021 , 33,	3.4	3
76	Hybrid 3D Nanostructure-Based Hole Transport Layer for Highly Efficient Inverted Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 16611-16619	9.5	2
75	Trap State Passivation by Rational Ligand Molecule Engineering toward Efficient and Stable Perovskite Solar Cells Exceeding 23% Efficiency. <i>Advanced Energy Materials</i> , 2021 , 11, 2100529	21.8	80
74	Impact of Humidity and Temperature on the Stability of the Optical Properties and Structure of MAPbI, MAFAPI and (FAPbI)(MAPbBr) Perovskite Thin Films. <i>Materials</i> , 2021 , 14,	3.5	3
73	Roles of MACl in Sequentially Deposited Bromine-Free Perovskite Absorbers for Efficient Solar Cells. <i>Advanced Materials</i> , 2021 , 33, e2007126	24	44
72	Doping in Semiconductor Oxides-Based Electron Transport Materials for Perovskite Solar Cells Application. <i>Solar Rrl</i> , 2021 , 5, 2000605	7.1	9
71	Optical and Electronic Losses Arising from Physically Mixed Interfacial Layers in Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 4923-4934	9.5	7
70	Photon management to reduce energy loss in perovskite solar cells. <i>Chemical Society Reviews</i> , 2021 , 50, 7250-7329	58.5	29
69	Zwitterionic Ionic Liquid Confer Defect Tolerance, High Conductivity, and Hydrophobicity toward Efficient Perovskite Solar Cells Exceeding 22% Efficiency. <i>Solar Rrl</i> , 2021 , 5, 2100352	7.1	13
68	Revealing the Mechanism of Aromatic Molecule as an Effective Passivator and Stabilizer in Highly Efficient Wide-Bandgap Perovskite Solar Cells. <i>Solar Rrl</i> , 2021 , 5, 2100249	7.1	3
67	Multifunctional Reductive Molecular Modulator toward Efficient and Stable Perovskite Solar Cells. <i>Solar Rrl</i> , 2021 , 5, 2100320	7.1	4
66	Grain boundary defect passivation by in situ formed wide-bandgap lead sulfate for efficient and stable perovskite solar cells. <i>Chemical Engineering Journal</i> , 2021 , 426, 130685	14.7	11

65	3-Ammonium Propionic Acid: A Cation Tailoring Crystal Structure of Hybrid Perovskite for Improving Photovoltaic Performance. <i>ACS Applied Energy Materials</i> , 2021 , 4, 14662-14670	6.1	0
64	Dye Sensitization and Local Surface Plasmon Resonance-Enhanced Upconversion Luminescence for Efficient Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 24737-24746	9.5	35
63	Dual Interfacial Modification Engineering with 2D MXene Quantum Dots and Copper Sulphide Nanocrystals Enabled High-Performance Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 2003295	15.6	53
62	Unraveling the Dual-Functional Mechanism of Light Absorption and Hole Transport of CuCdZnSnS for Achieving Efficient and Stable Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 17509-17518	9.5	12
61	Correlating Hysteresis and Stability with Organic Cation Composition in the Two-Step Solution-Processed Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 10588-10598	8.5	17
60	Efficient and stable perovskite solar cells through e-beam preparation of cerium doped TiO ₂ electron transport layer, ultraviolet conversion layer CsPbBr ₃ and the encapsulation layer Al ₂ O ₃ . <i>Solar Energy</i> , 2020 , 198, 187-193	6.8	12
59	Optimizing electron density of nickel sulfide electrocatalysts through sulfur vacancy engineering for alkaline hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 18207-18214	13	18
58	Low-Temperature-Processed WO _x as Electron Transfer Layer for Planar Perovskite Solar Cells Exceeding 20% Efficiency. <i>Solar Rrl</i> , 2020 , 4, 1900499	7.1	17
57	Interface modification of sputtered NiO _x as the hole-transporting layer for efficient inverted planar perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 1972-1980	7.1	30
56	High Remaining Factors in the Photovoltaic Performance of Perovskite Solar Cells after High-Fluence Electron Beam Irradiations. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 1330-1336	3.8	9
55	Dual Functions of Crystallization Control and Defect Passivation Enabled by an Ionic Compensation Strategy for Stable and High-Efficient Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 3631-3641	9.5	26
54	Charge Compensating Defects in Methylammonium Lead Iodide Perovskite Suppressed by Formamidinium Inclusion. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 121-128	6.4	14
53	Chemical inhibition of reversible decomposition for efficient and super-stable perovskite solar cells. <i>Nano Energy</i> , 2020 , 68, 104315	17.1	16
52	Reconfiguration of Interfacial and Bulk Energy Band Structure for High-Performance Organic and Thermal Stability Enhanced Perovskite Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 1900482	7.1	10
51	Suppressing the Phase Segregation with Potassium for Highly Efficient and Photostable Inverted Wide-Band Gap Halide Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 48458-48466	9.5	16
50	Low-bandgap mixed tin/lead iodide perovskites with reduced methylammonium for simultaneous enhancement of solar cell efficiency and stability. <i>Nature Energy</i> , 2020 , 5, 768-776	62.3	80
49	Arylammonium-Assisted Reduction of the Open-Circuit Voltage Deficit in Wide-Bandgap Perovskite Solar Cells: The Role of Suppressed Ion Migration. <i>ACS Energy Letters</i> , 2020 , 5, 2560-2568	20.1	56
48	Narrow-Bandgap Mixed Lead/Tin-Based 2D Dion-Jacobson Perovskites Boost the Performance of Solar Cells. <i>Journal of the American Chemical Society</i> , 2020 , 142, 15049-15057	16.4	53

47	Doping in inorganic perovskite for photovoltaic application. <i>Nano Energy</i> , 2020 , 78, 105354	17.1	23
46	Low-Temperature Electron Beam Deposition of Zn-SnO _x for Stable and Flexible Perovskite Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 1900266	7.1	12
45	Pb-Based Perovskite Solar Cells and the Underlying Pollution behind Clean Energy: Dynamic Leaching of Toxic Substances from Discarded Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 2812-2817	6.4	28
44	Improved Interface Charge Extraction by Double Electron Transport Layers for High-Efficient Planar Perovskite Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900314	7.1	10
43	High-Rubidium-Formamidinium-Ratio Perovskites for High-Performance Photodetection with Enhanced Stability. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 39875-39881	9.5	12
42	A Cu ₃ PS ₄ nanoparticle hole selective layer for efficient inverted perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4604-4610	13	18
41	Efficient rare earth co-doped TiO ₂ electron transport layer for high-performance perovskite solar cells. <i>Journal of Colloid and Interface Science</i> , 2019 , 553, 14-21	9.3	28
40	Carrier lifetimes of >1 ns in Sn-Pb perovskites enable efficient all-perovskite tandem solar cells. <i>Science</i> , 2019 , 364, 475-479	33.3	496
39	Interfacial Engineering and Photon Downshifting of CsPbBr ₃ Nanocrystals for Efficient, Stable, and Colorful Vapor Phase Perovskite Solar Cells. <i>Advanced Science</i> , 2019 , 6, 1802046	13.6	29
38	Enhancing Photostability of Perovskite Solar Cells by Eu(TTA)(Phen)MAA Interfacial Modification. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 11481-11487	9.5	27
37	Improving Performance and Stability of Planar Perovskite Solar Cells through Grain Boundary Passivation with Block Copolymers. <i>Solar Rrl</i> , 2019 , 3, 1900078	7.1	28
36	A dithieno[3,2-b:2',3'-d']pyrrole-cored four-arm hole transporting material for over 19% efficiency dopant-free perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 9455-9459	7.1	19
35	CsPbBr ₃ perovskite nanoparticles as additive for environmentally stable perovskite solar cells with 20.46% efficiency. <i>Nano Energy</i> , 2019 , 59, 517-526	17.1	120
34	Monolithic Two-Terminal All-Perovskite Tandem Solar Cells with Power Conversion Efficiency Exceeding 21% 2019 ,		2
33	Effective Carrier-Concentration Tuning of SnO Quantum Dot Electron-Selective Layers for High-Performance Planar Perovskite Solar Cells. <i>Advanced Materials</i> , 2018 , 30, e1706023	24	245
32	Improving Efficiency and Light Stability of Perovskite Solar Cells by Incorporating YVO ₄ :Eu ³⁺ , Bi ³⁺ Nanophosphor into the Mesoporous TiO ₂ Layer. <i>ACS Applied Energy Materials</i> , 2018 , 1, 2096-2102	6.1	22
31	Self-Powered All-Inorganic Perovskite Microcrystal Photodetectors with High Detectivity. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 2043-2048	6.4	99
30	Fully High-Temperature-Processed SnO ₂ as Blocking Layer and Scaffold for Efficient, Stable, and Hysteresis-Free Mesoporous Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1706276	15.6	111

29	Four-Terminal All-Perovskite Tandem Solar Cells Achieving Power Conversion Efficiencies Exceeding 23%. <i>ACS Energy Letters</i> , 2018 , 3, 305-306	20.1	169
28	Carrier Interfacial Engineering by Bismuth Modification for Efficient and Thermoresistant Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1703659	21.8	43
27	Pressure-Assisted Annealing Strategy for High-Performance Self-Powered All-Inorganic Perovskite Microcrystal Photodetectors. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 4714-4719	6.4	39
26	APTES-functionalized thin-walled porous WO ₃ nanotubes for highly selective sensing of NO ₂ in a polluted environment. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10976-10989	13	74
25	Probing the origins of photodegradation in organic/inorganic metal halide perovskites with time-resolved mass spectrometry. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 2460-2467	5.8	56
24	Efficient and Stable Nonfullerene-Graded Heterojunction Inverted Perovskite Solar Cells with Inorganic Ga ₂ O ₃ Tunneling Protective Nanolayer. <i>Advanced Functional Materials</i> , 2018 , 28, 1804128	15.6	58
23	Efficient two-terminal all-perovskite tandem solar cells enabled by high-quality low-bandgap absorber layers. <i>Nature Energy</i> , 2018 , 3, 1093-1100	62.3	284
22	Dual interfacial modifications by conjugated small-molecules and lanthanides doping for full functional perovskite solar cells. <i>Nano Energy</i> , 2018 , 53, 849-862	17.1	41
21	A simple synthesis of transparent and highly conducting p-type Cu Al S nanocomposite thin films as the hole transporting layer for organic solar cells.. <i>RSC Advances</i> , 2018 , 8, 16887-16896	3.7	3
20	Considerably enhanced perovskite solar cells via the introduction of metallic nanostructures. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6515-6521	13	34
19	Incorporation of High-Mobility and Room-Temperature-Deposited Cu _x S as a Hole Transport Layer for Efficient and Stable Organo-Lead Halide Perovskite Solar Cells. <i>Solar Rrl</i> , 2017 , 1, 1700038	7.1	43
18	Enhanced Performance and Photostability of Perovskite Solar Cells by Introduction of Fluorescent Carbon Dots. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 14518-14524	9.5	59
17	Highly enhanced long time stability of perovskite solar cells by involving a hydrophobic hole modification layer. <i>Nano Energy</i> , 2017 , 32, 165-173	17.1	50
16	Surface treatment via Li-bis-(trifluoromethanesulfonyl) imide to eliminate the hysteresis and enhance the efficiency of inverted perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 10280-10287 ¹	7.1	51
15	Highly Efficient and Stable Planar Perovskite Solar Cells With Large-Scale Manufacture of E-Beam Evaporated SnO ₂ Toward Commercialization. <i>Solar Rrl</i> , 2017 , 1, 1700118	7.1	53
14	Long-Lasting Nanophosphors Applied to UV-Resistant and Energy Storage Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1700758	21.8	83
13	High-Performance Rigid and Flexible Perovskite Solar Cells with Low-Temperature Solution-Processable Binary Metal Oxide Hole-Transporting Materials. <i>Solar Rrl</i> , 2017 , 1, 1700058	7.1	54
12	Enhanced Performance of Perovskite Solar Cells with Zinc Chloride Additives. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 42875-42882	9.5	81

11	Engineered IrO@NiO Core-Shell Nanowires for Sensitive Non-enzymatic Detection of Trace Glucose in Saliva. <i>Analytical Chemistry</i> , 2016 , 88, 12346-12353	7.8	73
10	CdS/CdSe quantum dots and ZnPc dye co-sensitized solar cells with Au nanoparticles/graphene oxide as efficient modified layer. <i>Journal of Colloid and Interface Science</i> , 2016 , 480, 49-56	9.3	18
9	Strontium titanate nanoparticles as the photoanode for CdS quantum dot sensitized solar cells. <i>RSC Advances</i> , 2015 , 5, 4844-4852	3.7	23
8	Dysprosium, holmium and erbium ions doped indium oxide nanotubes as photoanodes for dye sensitized solar cells and improved device performance. <i>Journal of Colloid and Interface Science</i> , 2015 , 440, 162-7	9.3	17
7	Radio Frequency Magnetron Sputtering Deposition of TiO ₂ Thin Films and Their Perovskite Solar Cell Applications. <i>Scientific Reports</i> , 2015 , 5, 17684	4.9	64
6	Demonstration of optical gain at 1550 nm in erbium-ytterbium co-doped polymer waveguide amplifier. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 1947-50	1.3	7
5	Erbium-ytterbium codoped waveguide amplifier fabricated with solution-processable complex. <i>Applied Physics Letters</i> , 2009 , 94, 041119	3.4	30
4	Synergistic Effects of Multifunctional Lanthanides Doped CsPbBrCl 2 Quantum Dots for Efficient and Stable MAPbI 3 Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2110346	15.6	10
3	Wide-bandgap organic/inorganic hybrid and all-inorganic perovskite solar cells and their application in all-perovskite tandem solar cells. <i>Energy and Environmental Science</i> ,	35.4	25
2	Assessing the true power of bifacial perovskite solar cells under concurrent bifacial illumination. <i>Sustainable Energy and Fuels</i> ,	5.8	4
1	Regulable DNA-Protein Interactions in Vitro and Vivo at Epigenetic DNA Marks. <i>CCS Chemistry</i> , 54-63	7.2	