

# Yonghua Chen

## List of Publications by Citations

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101  
papers

9,248  
citations

36  
h-index

96  
g-index

112  
ext. papers

11,356  
ext. citations

11.9  
avg, IF

6.38  
L-index

#	Paper	IF	Citations
101	Solar cells. Low trap-state density and long carrier diffusion in organolead trihalide perovskite single crystals. <i>Science</i> , <b>2015</b> , 347, 519-22	33.3	3307
100	ELECTROCHEMISTRY. High-performance transition metal-doped $\text{PtNi}$ octahedra for oxygen reduction reaction. <i>Science</i> , <b>2015</b> , 348, 1230-4	33.3	1307
99	Lead-Free Organic-Inorganic Hybrid Perovskites for Photovoltaic Applications: Recent Advances and Perspectives. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605005	24	437
98	Stability of Perovskite Solar Cells: A Prospective on the Substitution of the A Cation and X Anion. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 1190-1212	16.4	376
97	Efficient and stable Ruddlesden-Popper perovskite solar cell with tailored interlayer molecular interaction. <i>Nature Photonics</i> , <b>2020</b> , 14, 154-163	33.9	251
96	Additive engineering for highly efficient organic-inorganic halide perovskite solar cells: recent advances and perspectives. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 12602-12652	13	249
95	Efficiently photo-charging lithium-ion battery by perovskite solar cell. <i>Nature Communications</i> , <b>2015</b> , 6, 8103	17.4	208
94	Stabilizing black-phase formamidinium perovskite formation at room temperature and high humidity. <i>Science</i> , <b>2021</b> , 371, 1359-1364	33.3	202
93	Layer-by-layer growth of $\text{CH}_3\text{NH}_3\text{PbI}_2(1-x)\text{CH}_3\text{NH}_3\text{PbI}_3(x)$ for highly efficient planar heterojunction perovskite solar cells. <i>Advanced Materials</i> , <b>2015</b> , 27, 1053-9	24	192
92	Room-Temperature Molten Salt for Facile Fabrication of Efficient and Stable Perovskite Solar Cells in Ambient Air. <i>Chem</i> , <b>2019</b> , 5, 995-1006	16.2	160
91	Two-dimensional Ruddlesden-Popper layered perovskite solar cells based on phase-pure thin films. <i>Nature Energy</i> , <b>2021</b> , 6, 38-45	62.3	155
90	Red-Carbon-Quantum-Dot-Doped SnO Composite with Enhanced Electron Mobility for Efficient and Stable Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2020</b> , 32, e1906374	24	141
89	2D Intermediate Suppression for Efficient Ruddlesden-Popper (RP) Phase Lead-Free Perovskite Solar Cells. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 1513-1520	20.1	121
88	Two-dimensional light-emitting materials: preparation, properties and applications. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 6128-6174	58.5	118
87	Management of perovskite intermediates for highly efficient inverted planar heterojunction perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 3193-3202	13	82
86	Flexible, transparent nanocellulose paper-based perovskite solar cells. <i>Npj Flexible Electronics</i> , <b>2019</b> , 3,	10.7	79
85	Tailoring Component Interaction for Air-Processed Efficient and Stable All-Inorganic Perovskite Photovoltaic. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 13354-13361	16.4	78

84	Reduced-Dimensional Perovskite Enabled by Organic Diamine for Efficient Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 2349-2356	6.4	73
83	Organic semiconductor heterojunctions as charge generation layers and their application in tandem organic light-emitting diodes for high power efficiency. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 18718		73
82	High power efficiency tandem organic light-emitting diodes based on bulk heterojunction organic bipolar charge generation layer. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 243309	3.4	71
81	Management of Crystallization Kinetics for Efficient and Stable Low-Dimensional Ruddlesden-Popper (LDRP) Lead-Free Perovskite Solar Cells. <i>Advanced Science</i> , <b>2019</b> , 6, 1800793	13.6	68
80	Rapid Crystallization for Efficient 2D Ruddlesden-Popper (2DRP) Perovskite Solar Cells. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1806831	15.6	68
79	Emerging New-Generation Photodetectors Based on Low-Dimensional Halide Perovskites. <i>ACS Photonics</i> , <b>2020</b> , 7, 10-28	6.3	65
78	Oriented and Uniform Distribution of Dion-Jacobson Phase Perovskites Controlled by Quantum Well Barrier Thickness. <i>Solar Rrl</i> , <b>2019</b> , 3, 1900090	7.1	61
77	Enhancing Efficiency and Stability of Perovskite Solar Cells via a Self-Assembled Dopamine Interfacial Layer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 30607-30613	9.5	59
76	Centimeter-Sized Single Crystal of Two-Dimensional Halide Perovskites Incorporating Straight-Chain Symmetric Diammonium Ion for X-Ray Detection. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 14896-14902	16.4	58
75	Solvent Engineering of the Precursor Solution toward Large-Area Production of Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2021</b> , 33, e2005410	24	57
74	Metal halide perovskites for resistive switching memory devices and artificial synapses. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 7476-7493	7.1	51
73	Graphene oxide-based carbon interconnecting layer for polymer tandem solar cells. <i>Nano Letters</i> , <b>2014</b> , 14, 1467-71	11.5	51
72	Unique characteristics of 2D Ruddlesden-Popper (2DRP) perovskite for future photovoltaic application. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 13860-13872	13	49
71	A-Site Cation Engineering of Metal Halide Perovskites: Version 3.0 of Efficient Tin-Based Lead-Free Perovskite Solar Cells. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2000794	15.6	49
70	Hot-substrate deposition of all-inorganic perovskite films for low-temperature processed high-efficiency solar cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 2773-2779	13	49
69	Diaryluorene-based nano-molecules as dopant-free hole-transporting materials without post-treatment process for flexible p-i-n type perovskite solar cells. <i>Nano Energy</i> , <b>2018</b> , 46, 241-248	17.1	46
68	Interface Engineering for Highly Efficient Electron-Transport-Layer-Free Perovskite Solar Cells. <i>Nano Letters</i> , <b>2020</b> , 20, 5799-5806	11.5	36
67	Synergistic effect of anions and cations in additives for highly efficient and stable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 9264-9270	13	36

66	Improving the efficiency and stability of inverted perovskite solar cells by CuSCN-doped PEDOT:PSS. <i>Solar Energy Materials and Solar Cells</i> , <b>2020</b> , 206, 110316	6.4	36
65	Critical role of chloride in organic ammonium spacer on the performance of Low-dimensional Ruddlesden-Popper perovskite solar cells. <i>Nano Energy</i> , <b>2019</b> , 56, 373-381	17.1	36
64	Ionic Liquids-Enabled Efficient and Stable Perovskite Photovoltaics: Progress and Challenges. <i>ACS Energy Letters</i> , 1453-1479	20.1	35
63	Efficient and Stable Low-Dimensional Ruddlesden-Popper Perovskite Solar Cells Enabled by Reducing Tunnel Barrier. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 1173-1179	6.4	34
62	Flexible Perovskite Solar Cells with High Power-Per-Weight: Progress, Application, and Perspectives. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 2917-2943	20.1	34
61	Two-Terminal Perovskites Tandem Solar Cells: Recent Advances and Perspectives. <i>Solar Rrl</i> , <b>2019</b> , 3, 1900080	0.8	32
60	Origin of High Efficiency and Long-Term Stability in Ionic Liquid Perovskite Photovoltaic. <i>Research</i> , <b>2020</b> , 2020, 2616345	7.8	28
59	Facet-Dependent Control of PbI <sub>2</sub> Colloids for over 20% Efficient Perovskite Solar Cells. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 358-367	20.1	27
58	Enhanced Performance of Perovskite Light-Emitting Diodes via Diamine Interface Modification. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 29132-29138	9.5	26
57	One-dimensional (1D) [6,6]-phenyl-C61-butyric acid methyl ester (PCBM) nanorods as an efficient additive for improving the efficiency and stability of perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 8566-8572	13	26
56	Architecture of p-i-n Sn-Based Perovskite Solar Cells: Characteristics, Advances, and Perspectives. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 2863-2875	20.1	25
55	Stabilität von Perowskit-Solarzellen: Einfluss der Substitution von A-Kation und X-Anion. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 1210-1233	3.6	24
54	Improved Performance of CH <sub>3</sub> NHPbI <sub>3</sub> Resistive Switching Memory by Assembling 2D/3D Perovskite Heterostructures. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 15439-15445	9.5	23
53	Modeling Thin Film Solar Cells: From Organic to Perovskite. <i>Advanced Science</i> , <b>2020</b> , 7, 1901397	13.6	23
52	Nanoscale hybrid multidimensional perovskites with alternating cations for high performance photovoltaic. <i>Nano Energy</i> , <b>2019</b> , 65, 104050	17.1	22
51	Recent progress on low dimensional perovskite solar cells. <i>Journal of Energy Chemistry</i> , <b>2018</b> , 27, 1091-1100	10	21
50	Carbon quantum dot additive engineering for efficient and stable carbon-based perovskite solar cells. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 859, 157784	5.7	15
49	All-inorganic Sn-based Perovskite Solar Cells: Status, Challenges, and Perspectives. <i>ChemSusChem</i> , <b>2020</b> , 13, 6477-6497	8.3	14

48	Recent progress of integrated circuits and optoelectronic chips. <i>Science China Information Sciences</i> , <b>2021</b> , 64, 1	3.4	14
47	All-Inorganic Perovskite Nanocrystals-Based Light Emitting Diodes and Solar Cells. <i>ChemNanoMat</i> , <b>2019</b> , 5, 266-277	3.5	14
46	In situ observation of phase suppression by lattice strain in all-inorganic perovskite solar cells. <i>Nano Energy</i> , <b>2020</b> , 73, 104803	17.1	13
45	Crystallization Dynamics of Sn-Based Perovskite Thin Films: Toward Efficient and Stable Photovoltaic Devices. <i>Advanced Energy Materials</i> , 2102213	21.8	11
44	Stable, Efficient Near-Infrared Light-Emitting Diodes Enabled by Phase Modulation. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 2101-2107	6.4	10
43	Robust and Transient Write-Once-Read-Many-Times Memory Device Based on Hybrid Perovskite Film with Novel Room Temperature Molten Salt Solvent. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 2000109	6.4	10
42	Two-dimensional Ruddlesden-Popper layered perovskite for light-emitting diodes. <i>APL Materials</i> , <b>2020</b> , 8, 040901	5.7	10
41	Lanthanide Stabilized All-Inorganic CsPbI <sub>2</sub> Br Perovskite Solar Cells with Superior Thermal Resistance. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 3937-3944	6.1	10
40	Emerging Organic/Hybrid Photovoltaic Cells for Indoor Applications: Recent Advances and Perspectives. <i>Solar Rrl</i> , <b>2021</b> , 5, 2100042	7.1	10
39	Air-Processed MAPbBr Perovskite Thin Film with Ultrastability and Enhanced Amplified Spontaneous Emission. <i>Small</i> , <b>2021</b> , 17, e2101107	11	10
38	Solution processed nano-ZnMgO interfacial layer for highly efficient inverted perovskite solar cells. <i>Journal of Energy Chemistry</i> , <b>2019</b> , 28, 107-110	12	10
37	Efficient and Stable Perovskite Solar Cells by Fluorinated Ionic Liquid-Induced Component Interaction. <i>Solar Rrl</i> , <b>2021</b> , 5, 2000582	7.1	10
36	Strain Engineering of Metal Halide Perovskites toward Efficient Photovoltaics: Advances and Perspectives. <i>Solar Rrl</i> , <b>2021</b> , 5, 2000672	7.1	9
35	Microstructure and lattice strain control towards high-performance ambient green-printed perovskite solar cells. <i>Journal of Materials Chemistry A</i> ,	13	9
34	Perovskite Solar Cells toward Eco-Friendly Printing. <i>Research</i> , <b>2021</b> , 2021, 9671892	7.8	8
33	Manipulating SnO <sub>2</sub> Growth for Efficient Electron Transport in Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2100128	4.6	8
32	Stability of mixed-halide wide bandgap perovskite solar cells: Strategies and progress. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 61, 395-415	12	8
31	Residual solvent extraction via chemical displacement for efficient and stable perovskite solar cells. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 61, 8-14	12	7

30	Centimeter-Sized Single Crystal of Two-Dimensional Halide Perovskites Incorporating Straight-Chain Symmetric Diammonium Ion for X-Ray Detection. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 15006-15012	3.6	7
29	Vanadium Oxide-Modified Triphenylamine-Based Hole-Transport Layer for Highly Reproducible and Efficient Inverted Perovskite Solar Cells. <i>Advanced Photonics Research</i> , <b>2021</b> , 2, 2000132	1.9	6
28	Toward Efficient and Stable Perovskite Solar Cells by 2D Interface Energy Band Alignment. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2001683	4.6	6
27	Metal Halide Perovskite/2D Material Heterostructures: Syntheses and Applications.. <i>Small Methods</i> , <b>2021</b> , 5, e2000937	12.8	6
26	Toward a New Energy Era: Self-Driven Integrated Systems Based on Perovskite Solar Cells. <i>Solar Rrl</i> , <b>2019</b> , 3, 1900320	7.1	5
25	Tailoring Component Interaction for Air-Processed Efficient and Stable All-Inorganic Perovskite Photovoltaic. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 13456-13463	3.6	5
24	Stability of Sn-Pb mixed organic/inorganic halide perovskite solar cells: Progress, challenges, and perspectives. <i>Journal of Energy Chemistry</i> , <b>2022</b> , 65, 371-404	12	5
23	Designing Ionic Liquids as the Solvent for Efficient and Stable Perovskite Solar Cells.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> ,	9.5	4
22	Lead Sources in Perovskite Solar Cells: Toward Controllable, Sustainable, and Large-Scalable Production. <i>Solar Rrl</i> , <b>2021</b> , 5, 2100665	7.1	4
21	Highly oriented perovskites for efficient light-emitting diodes with balanced charge transport. <i>Organic Electronics</i> , <b>2020</b> , 77, 105529	3.5	4
20	Efficient and stable Ruddlesden-Popper layered tin-based perovskite solar cells enabled by ionic liquid-bulky spacers. <i>Science China Chemistry</i> , <b>2021</b> , 64, 1577-1585	7.9	4
19	Conjugated molecule doping of triphenylamine-based hole-transport layer for high-performance perovskite solar cells. <i>Journal of Power Sources</i> , <b>2021</b> , 506, 230120	8.9	4
18	Polyacrylic Acid Grafted Carbon Nanotubes for Immobilization of Lead(II) in Perovskite Solar Cell. <i>ACS Energy Letters</i> , 1577-1585	20.1	4
17	Growth and Degradation Kinetics of Organic-Inorganic Hybrid Perovskite Films Determined by In Situ Grazing-Incidence X-Ray Scattering Techniques.. <i>Small Methods</i> , <b>2021</b> , 5, e2100829	12.8	3
16	Tuning the Interactions of Methylammonium Acetate with Acetonitrile to Create Efficient Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 6555-6563	3.8	3
15	Hydroxyl-Rich d-Sorbitol to Address Transport Layer/Perovskite Interfacial Issues toward Highly Efficient and Stable 2D/3D Tin-Based Perovskite Solar Cells. <i>Advanced Optical Materials</i> , 2100755	8.1	3
14	Phase-Pure $\delta$ -FAPbI <sub>3</sub> for Perovskite Solar Cells.. <i>Journal of Physical Chemistry Letters</i> , <b>2022</b> , 1845-1854	6.4	3
13	Bi-Linkable Reductive Cation as Molecular Glue for One Year Stable Sn-Based Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> ,	6.1	3

12	Decisive Role of Elevated Mobility in X55 and X60 Hole Transport Layers for High-Performance Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 7681-7690	6.1	2
11	Antisolvent-Free Fabrication of Efficient and Stable SnPb Perovskite Solar Cells. <i>Solar Rrl</i> ,2100675	7.1	2
10	In situ nanocrystal seeding perovskite crystallization toward high-performance solar cells. <i>Materials Today Energy</i> , <b>2021</b> , 22, 100855	7	2
9	A bromide-induced highly oriented low-dimensional RuddlesdenPopper phase for efficient and stable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 15068-15075	13	1
8	Famished Two-Step Deposition for Self-Assembly Energy Cascade in the Perovskite Layer toward Efficient Photovoltaics. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 10163-10171	6.1	1
7	Chiral cation promoted interfacial charge extraction for efficient tin-based perovskite solar cells. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 68, 789-789	12	1
6	Phase-Pure Engineering for Efficient and Stable Formamidinium-Based Perovskite Solar Cells. <i>Solar Rrl</i> ,2200060	7.1	1
5	Device Physics of a Metal Halide Perovskite Diode: Decoupling of the Bulk from the Interface. <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 6892-6903	3.8	1
4	In Situ Polymer Network in Perovskite Solar Cells Enabled Superior Moisture and Thermal Resistance.. <i>Journal of Physical Chemistry Letters</i> , <b>2022</b> , 3754-3762	6.4	1
3	Perovskite photodetectors for flexible electronics: Recent advances and perspectives. <i>Applied Materials Today</i> , <b>2022</b> , 28, 101509	6.6	1
2	Recent Progress in AC-Driven Organic and Perovskite Electroluminescent Devices. <i>ACS Photonics</i> ,	6.3	1
1	Insights into the hole transport properties of LiTFSI-doped spiro-OMeTAD films through impedance spectroscopy. <i>Journal of Applied Physics</i> , <b>2020</b> , 128, 085501	2.5	0