Yingdong Xia

List of Publications by Citations

60 papers	2,993 citations	27 h-index	54 g-index
67 ext. papers	4,081 ext. citations	12.1 avg, IF	5.57 L-index

#	Paper	IF	Citations
60	Lead-Free Organic-Inorganic Hybrid Perovskites for Photovoltaic Applications: Recent Advances and Perspectives. *Advanced Materials*, **2017**, 29, 1605005	24	437
59	Efficient and stable Ruddlesden–Popper perovskite solar cell with tailored interlayer molecular interaction. *Nature Photonics*, **2020**, 14, 154-163	33.9	251
58	Additive engineering for highly efficient organic–inorganic halide perovskite solar cells: recent advances and perspectives. *Journal of Materials Chemistry A*, **2017**, 5, 12602-12652	13	249
57	Stabilizing black-phase formamidinium perovskite formation at room temperature and high humidity. *Science*, **2021**, 371, 1359-1364	33.3	202
56	Room-Temperature Molten Salt for Facile Fabrication of Efficient and Stable Perovskite Solar Cells in Ambient Air. *CheM*, **2019**, 5, 995-1006	16.2	160
55	Two-dimensional Ruddlesden–Popper layered perovskite solar cells based on phase-pure thin films. *Nature Energy*, **2021**, 6, 38-45	62.3	155
54	Red-Carbon-Quantum-Dot-Doped SnO Composite with Enhanced Electron Mobility for Efficient and Stable Perovskite Solar Cells. *Advanced Materials*, **2020**, 32, e1906374	24	141
53	2D Intermediate Suppression for Efficient Ruddlesden–Popper (RP) Phase Lead-Free Perovskite Solar Cells. *ACS Energy Letters*, **2019**, 4, 1513-1520	20.1	121
52	Management of perovskite intermediates for highly efficient inverted planar heterojunction perovskite solar cells. *Journal of Materials Chemistry A*, **2017**, 5, 3193-3202	13	82
51	Tailoring Component Interaction for Air-Processed Efficient and Stable All-Inorganic Perovskite Photovoltaic. *Angewandte Chemie - International Edition*, **2020**, 59, 13354-13361	16.4	78
50	Reduced-Dimensional Perovskite Enabled by Organic Diamine for Efficient Photovoltaics. *Journal of Physical Chemistry Letters*, **2019**, 10, 2349-2356	6.4	73
49	Management of Crystallization Kinetics for Efficient and Stable Low-Dimensional Ruddlesden-Popper (LDRP) Lead-Free Perovskite Solar Cells. *Advanced Science*, **2019**, 6, 1800793	13.6	68
48	Rapid Crystallization for Efficient 2D Ruddlesden–Popper (2DRP) Perovskite Solar Cells. *Advanced Functional Materials*, **2019**, 29, 1806831	15.6	68
47	Oriented and Uniform Distribution of Dion–Jacobson Phase Perovskites Controlled by Quantum Well Barrier Thickness. *Solar Rrl*, **2019**, 3, 1900090	7.1	61
46	Enhancing Efficiency and Stability of Perovskite Solar Cells via a Self-Assembled Dopamine Interfacial Layer. *ACS Applied Materials & Interfaces*, **2018**, 10, 30607-30613	9.5	59
45	Centimeter-Sized Single Crystal of Two-Dimensional Halide Perovskites Incorporating Straight-Chain Symmetric Diammonium Ion for X-Ray Detection. *Angewandte Chemie - International Edition*, **2020**, 59, 14896-14902	16.4	58
44	Metal halide perovskites for resistive switching memory devices and artificial synapses. *Journal of Materials Chemistry C*, **2019**, 7, 7476-7493	7.1	51

43	Unique characteristics of 2D Ruddlesden Popper (2DRP) perovskite for future photovoltaic application. *Journal of Materials Chemistry A*, **2019**, 7, 13860-13872	13	49
42	A-Site Cation Engineering of Metal Halide Perovskites: Version 3.0 of Efficient Tin-Based Lead-Free Perovskite Solar Cells. *Advanced Functional Materials*, **2020**, 30, 2000794	15.6	49
41	Diarylfluorene-based nano-molecules as dopant-free hole-transporting materials without post-treatment process for flexible p-i-n type perovskite solar cells. *Nano Energy*, **2018**, 46, 241-248	17.1	46
40	Interface Engineering for Highly Efficient Electron-Transport-Layer-Free Perovskite Solar Cells. *Nano Letters*, **2020**, 20, 5799-5806	11.5	36
39	Synergistic effect of anions and cations in additives for highly efficient and stable perovskite solar cells. *Journal of Materials Chemistry A*, **2018**, 6, 9264-9270	13	36
38	Critical role of chloride in organic ammonium spacer on the performance of Low-dimensional Ruddlesden-Popper perovskite solar cells. *Nano Energy*, **2019**, 56, 373-381	17.1	36
37	Efficient and Stable Low-Dimensional Ruddlesden-Popper Perovskite Solar Cells Enabled by Reducing Tunnel Barrier. *Journal of Physical Chemistry Letters*, **2019**, 10, 1173-1179	6.4	34
36	Flexible Perovskite Solar Cells with High Power-Per-Weight: Progress, Application, and Perspectives. *ACS Energy Letters*, **2021**, 6, 2917-2943	20.1	34
35	Recent Advances in Alternating Current-Driven Organic Light-Emitting Devices. *Advanced Materials*, **2017**, 29, 1701441	24	30
34	Origin of High Efficiency and Long-Term Stability in Ionic Liquid Perovskite Photovoltaic. *Research*, **2020**, 2020, 2616345	7.8	28
33	Facet-Dependent Control of PbI2 Colloids for over 20% Efficient Perovskite Solar Cells. *ACS Energy Letters*, **2019**, 4, 358-367	20.1	27
32	Enhanced Performance of Perovskite Light-Emitting Diodes via Diamine Interface Modification. *ACS Applied Materials & Interfaces*, **2019**, 11, 29132-29138	9.5	26
31	Improved Performance of CHNHPbICl Resistive Switching Memory by Assembling 2D/3D Perovskite Heterostructures. *ACS Applied Materials & Interfaces*, **2020**, 12, 15439-15445	9.5	23
30	Nanoscale hybrid multidimensional perovskites with alternating cations for high performance photovoltaic. *Nano Energy*, **2019**, 65, 104050	17.1	22
29	Recent progress on low dimensional perovskite solar cells. *Journal of Energy Chemistry*, **2018**, 27, 1091-1100	13	21
28	All-inorganic Sn-based Perovskite Solar Cells: Status, Challenges, and Perspectives. *ChemSusChem*, **2020**, 13, 6477-6497	8.3	14
27	All-Inorganic Perovskite Nanocrystals-Based Light Emitting Diodes and Solar Cells. *ChemNanoMat*, **2019**, 5, 266-277	3.5	14
26	In situ observation of δ phase suppression by lattice strain in all-inorganic perovskite solar cells. *Nano Energy*, **2020**, 73, 104803	17.1	13

25	Crystallization Dynamics of Sn-Based Perovskite Thin Films: Toward Efficient and Stable Photovoltaic Devices. *Advanced Energy Materials*,2102213	21.8	11
24	Stable, Efficient Near-Infrared Light-Emitting Diodes Enabled by 2D Phase Modulation. *Journal of Physical Chemistry Letters*, **2019**, 10, 2101-2107	6.4	10
23	Robust and Transient Write-Once-Read-Many-Times Memory Device Based on Hybrid Perovskite Film with Novel Room Temperature Molten Salt Solvent. *Advanced Electronic Materials*, **2020**, 6, 2000109	6.4	10
22	Solution processed nano-ZnMgO interfacial layer for highly efficient inverted perovskite solar cells. *Journal of Energy Chemistry*, **2019**, 28, 107-110	12	10
21	Efficient and Stable Perovskite Solar Cells by Fluorinated Ionic Liquid-Induced Component Interaction. *Solar Rrl*, **2021**, 5, 2000582	7.1	10
20	Strain Engineering of Metal-Halide Perovskites toward Efficient Photovoltaics: Advances and Perspectives. *Solar Rrl*, **2021**, 5, 2000672	7.1	9
19	Manipulating SnO2 Growth for Efficient Electron Transport in Perovskite Solar Cells. *Advanced Materials Interfaces*, **2021**, 8, 2100128	4.6	8
18	Stability of mixed-halide wide bandgap perovskite solar cells: Strategies and progress. *Journal of Energy Chemistry*, **2021**, 61, 395-415	12	8
17	Residual solvent extraction via chemical displacement for efficient and stable perovskite solar cells. *Journal of Energy Chemistry*, **2021**, 61, 8-14	12	7
16	Centimeter-Sized Single Crystal of Two-Dimensional Halide Perovskites Incorporating Straight-Chain Symmetric Diammonium Ion for X-Ray Detection. *Angewandte Chemie*, **2020**, 132, 15006-15012	3.6	7
15	Toward Efficient and Stable Perovskite Solar Cells by 2D Interface Energy Band Alignment. *Advanced Materials Interfaces*, **2021**, 8, 2001683	4.6	6
14	Toward a New Energy Era: Self-Driven Integrated Systems Based on Perovskite Solar Cells. *Solar Rrl*, **2019**, 3, 1900320	7.1	5
13	Tailoring Component Interaction for Air-Processed Efficient and Stable All-Inorganic Perovskite Photovoltaic. *Angewandte Chemie*, **2020**, 132, 13456-13463	3.6	5
12	Lead Sources in Perovskite Solar Cells: Toward Controllable, Sustainable, and Large-Scalable Production. *Solar Rrl*, **2021**, 5, 2100665	7.1	4
11	Highly oriented perovskites for efficient light-emitting diodes with balanced charge transport. *Organic Electronics*, **2020**, 77, 105529	3.5	4
10	Efficient and stable Ruddlesden-Popper layered tin-based perovskite solar cells enabled by ionic liquid-bulky spacers. *Science China Chemistry*, **2021**, 64, 1577-1585	7.9	4
9	Stable metal halide perovskite colloids in protic ionic liquid. *CCS Chemistry*,1-24	7.2	3
8	Tuning the Interactions of Methylammonium Acetate with Acetonitrile to Create Efficient Perovskite Solar Cells. *Journal of Physical Chemistry C*, **2021**, 125, 6555-6563	3.8	3

7	Bi-Linkable Reductive Cation as Molecular Glue for One Year Stable Sn-Based Perovskite Solar Cells. *ACS Applied Energy Materials*,	6.1	3
6	In situ nanocrystal seeding perovskite crystallization toward high-performance solar cells. *Materials Today Energy*, **2021**, 22, 100855	7	2
5	A bromide-induced highly oriented low-dimensional Ruddlesden–Popper phase for efficient and stable perovskite solar cells. *Journal of Materials Chemistry A*, **2021**, 9, 15068-15075	13	1
4	Chiral cation promoted interfacial charge extraction for efficient tin-based perovskite solar cells. *Journal of Energy Chemistry*, **2021**, 68, 789-789	12	1
3	Valence Regulation of Ultrathin Cerium Vanadate Nanosheets for Enhanced Photocatalytic CO2 Reduction to CO. *Catalysts*, **2021**, 11, 1115	4	1
2	Recent Progress in AC-Driven Organic and Perovskite Electroluminescent Devices. *ACS Photonics*,	6.3	1
1	Insights into the hole transport properties of LiTFSI-doped spiro-OMeTAD films through impedance spectroscopy. *Journal of Applied Physics*, **2020**, 128, 085501	2.5	0