

Xihan Chen

List of Publications by Citations

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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.

47
papers

2,457
citations

24
h-index

49
g-index

53
ext. papers

3,246
ext. citations

15.1
avg, IF

5.33
L-index

#	Paper	IF	Citations
47	Carrier lifetimes of $>1 \mu$ s in Sn-Pb perovskites enable efficient all-perovskite tandem solar cells. <i>Science</i> , 2019 , 364, 475-479	33.3	496
46	High efficiency perovskite quantum dot solar cells with charge separating heterostructure. <i>Nature Communications</i> , 2019 , 10, 2842	17.4	205
45	Enhanced Charge Transport in 2D Perovskites via Fluorination of Organic Cation. <i>Journal of the American Chemical Society</i> , 2019 , 141, 5972-5979	16.4	170
44	Enhancing electron diffusion length in narrow-bandgap perovskites for efficient monolithic perovskite tandem solar cells. <i>Nature Communications</i> , 2019 , 10, 4498	17.4	138
43	Spin-dependent charge transport through 2D chiral hybrid lead-iodide perovskites. <i>Science Advances</i> , 2019 , 5, eaay0571	14.3	118
42	Theoretical studies of reactions of carbon dioxide mediated and catalysed by transition metal complexes. <i>Chemical Communications</i> , 2012 , 48, 10808-28	5.8	98
41	Detecting the oxyl radical of photocatalytic water oxidation at an n-SrTiO ₃ /aqueous interface through its subsurface vibration. <i>Nature Chemistry</i> , 2016 , 8, 549-55	17.6	95
40	Impact of Layer Thickness on the Charge Carrier and Spin Coherence Lifetime in Two-Dimensional Layered Perovskite Single Crystals. <i>ACS Energy Letters</i> , 2018 , 3, 2273-2279	20.1	84
39	Self-Seeding Growth for Perovskite Solar Cells with Enhanced Stability. <i>Joule</i> , 2019 , 3, 1452-1463	27.8	83
38	Excitonic Effects in Methylammonium Lead Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 2595-2603	6.4	72
37	Reconfiguring the band-edge states of photovoltaic perovskites by conjugated organic cations. <i>Science</i> , 2021 , 371, 636-640	33.3	69
36	Improving Charge Transport via Intermediate-Controlled Crystal Growth in 2D Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1901652	15.6	64
35	Sensitizing Singlet Fission with Perovskite Nanocrystals. <i>Journal of the American Chemical Society</i> , 2019 , 141, 4919-4927	16.4	61
34	The Formation Time of Ti-O and Ti-O-Ti Radicals at the n-SrTiO ₃ /Aqueous Interface during Photocatalytic Water Oxidation. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1830-1841	16.4	60
33	How surface potential determines the kinetics of the first hole transfer of photocatalytic water oxidation. <i>Journal of the American Chemical Society</i> , 2014 , 136, 10632-9	16.4	51
32	Metastable Dion-Jacobson 2D structure enables efficient and stable perovskite solar cells. <i>Science</i> , 2022 , 375, 71-76	33.3	51
31	Enhanced Charge Transport by Incorporating Formamidinium and Cesium Cations into Two-Dimensional Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 11737-11741	16.4	48

30	Enhancing Charge Transport of 2D Perovskite Passivation Agent for Wide-Bandgap Perovskite Solar Cells Beyond 21%. <i>Solar Rrl</i> , 2020 , 4, 2000082	7.1	46
29	Ultrafast Reaction Mechanisms in Perovskite Based Photocatalytic C ₆₀ Coupling. <i>ACS Energy Letters</i> , 2020 , 5, 566-571	20.1	38
28	Origin of Broad-Band Emission and Impact of Structural Dimensionality in Tin-Alloyed Ruddlesden-Popper Hybrid Lead Iodide Perovskites. <i>ACS Energy Letters</i> , 2020 , 5, 347-352	20.1	36
27	Systemic studies of tetraphenylethene-triphenylamine oligomers and a polymer: achieving both efficient solid-state emissions and hole-transporting capability. <i>Chemistry - A European Journal</i> , 2012 , 18, 9929-38	4.8	35
26	Enhanced photoredox activity of CsPbBr nanocrystals by quantitative colloidal ligand exchange. <i>Journal of Chemical Physics</i> , 2019 , 151, 204305	3.9	35
25	Selecting between two transition states by which water oxidation intermediates decay on an oxide surface. <i>Nature Catalysis</i> , 2019 , 2, 820-827	36.5	27
24	DFT Studies on Gold-Catalyzed Cycloisomerization of 1,5-Enynes. <i>Organometallics</i> , 2012 , 31, 4221-4227	3.8	27
23	Carbazole-Based Hole-Transport Materials for High-Efficiency and Stable Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2020 , 3, 4492-4498	6.1	22
22	Inhomogeneous Doping of Perovskite Materials by Dopants from Hole-Transport Layer. <i>Matter</i> , 2020 , 2, 261-272	12.7	22
21	Ultrafast probes at the interfaces of solar energy conversion materials. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 16399-16407	3.6	21
20	Direct Detection of Circularly Polarized Light Using Chiral Copper Chloride-Carbon Nanotube Heterostructures. <i>ACS Nano</i> , 2021 , 15, 7608-7617	16.7	20
19	n-Type PbSe Quantum Dots via Post-Synthetic Indium Doping. <i>Journal of the American Chemical Society</i> , 2018 , 140, 13753-13763	16.4	20
18	Gradient Doping in Sn-Pb Perovskites by Barium Ions for Efficient Single-junction and Tandem Solar Cells.. <i>Advanced Materials</i> , 2022 , e2110351	24	19
17	Surface lattice engineering through three-dimensional lead iodide perovskitoid for high-performance perovskite solar cells. <i>CheM</i> , 2021 , 7, 774-785	16.2	18
16	A Nanocrystal Catalyst Incorporating a Surface Bound Transition Metal to Induce Photocatalytic Sequential Electron Transfer Events. <i>Journal of the American Chemical Society</i> , 2021 , 143, 11361-11369	16.4	17
15	Enhanced Charge Transport by Incorporating Formamidinium and Cesium Cations into Two-Dimensional Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2019 , 131, 11863-11867	3.6	16
14	One-electron intermediates of water oxidation & the role of solvation in their stability. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 11410-11417	13	11
13	Tuning Spin-Polarized Lifetime in Two-Dimensional Metal-Halide Perovskite through Exciton Binding Energy. <i>Journal of the American Chemical Society</i> , 2021 , 143, 19438-19445	16.4	9

12	Embedding PbS Quantum Dots (QDs) in Pb-Halide Perovskite Matrices: QD Surface Chemistry and Antisolvent Effects on QD Dispersion and Confinement Properties 2020 , 2, 1464-1472		9
11	Unraveling the surface state of photovoltaic perovskite thin film. <i>Matter</i> , 2021 , 4, 2417-2428	12.7	9
10	Large-Area Material and Junction Damage in cSi Solar Cells by Potential-Induced Degradation. <i>Solar Rrl</i> , 2019 , 3, 1800303	7.1	6
9	Stiffening the Pb-X Framework through a EConjugated Small-Molecule Cross-Linker for High-Performance Inorganic CsPbIBr Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 40489-40501	9.5	6
8	Transient Evolution of the Built-in Field at Junctions of GaAs. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 40339-40346	9.5	5
7	Faradaic oxygen evolution from SrTiO under nano- and femto-second pulsed light excitation. <i>Chemical Communications</i> , 2017 , 53, 7254-7257	5.8	4
6	SMART Perovskite Growth: Enabling a Larger Range of Process Conditions. <i>ACS Energy Letters</i> , 2021 , 6, 650-658	20.1	4
5	Exogenous electricity flowing through cyanobacterial photosystem I drives CO2 valorization with high energy efficiency. <i>Energy and Environmental Science</i> ,	35.4	4
4	Superior photo-carrier diffusion dynamics in organic-inorganic hybrid perovskites revealed by spatiotemporal conductivity imaging. <i>Nature Communications</i> , 2021 , 12, 5009	17.4	3
3	Metastable Dion-Jacobson 2D structure enables efficient and stable perovskite solar cells. <i>Science</i> , 2021 , eabj2637	33.3	2
2	Nanomaterial catalysts for organic photoredox catalysis-mechanistic perspective. <i>Nanoscale</i> , 2021 , 13, 18044-18053	7.7	1
1	One-Electron Water Oxidation Intermediate on TiO2 P25 Probed by Ultrafast Attenuated Total Reflection. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 18204-18209	3.8	1