Tze-Bin Song

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.

 63
 16,859
 42
 64

 papers
 16,859
 h-index
 g-index

 64
 18,302
 14.3
 6.51

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
63	Out-of-equilibrium processes in crystallization of organic-inorganic perovskites during spin coating. Nature Communications, 2021, 12, 5624	17.4	10
62	Dynamics of Antisolvent Processed Hybrid Metal Halide Perovskites Studied by In Situ Photoluminescence and Its Influence on Optoelectronic Properties. <i>ACS Applied Energy Materials</i> , 2020 , 3, 2386-2393	6.1	15
61	Revealing the Dynamics of Hybrid Metal Halide Perovskite Formation via Multimodal In Situ Probes. <i>Advanced Functional Materials</i> , 2020 , 30, 1908337	15.6	25
60	Probing the in situ dynamics of structureproperty evolution in hybrid perovskite thin films spincoated from complex fluids by a custom-designed beamline-compatible multimodal measurement chamber. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019 , 75, a155-a156	1.7 5	3
59	Modern Processing and Insights on Selenium Solar Cells: The World's First Photovoltaic Device. <i>Advanced Energy Materials</i> , 2019 , 9, 1802766	21.8	27
58	Zero-Dimensional Cs2TeI6 Perovskite: Solution-Processed Thick Films with High X-ray Sensitivity. <i>ACS Photonics</i> , 2019 , 6, 196-203	6.3	43
57	Understanding macroscale functionality of metal halide perovskites in terms of nanoscale heterogeneities. <i>JPhys Energy</i> , 2019 , 1, 011002	4.9	3
56	High Hole Mobility and Nonsaturating Giant Magnetoresistance in the New 2D Metal NaCuSe Synthesized by a Unique Pathway. <i>Journal of the American Chemical Society</i> , 2019 , 141, 635-642	16.4	9
55	Piperazine Suppresses Self-Doping in CsSnI3 Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2018 , 1, 4221-4226	6.1	63
54	Slow thermal equilibration in methylammonium lead iodide revealed by transient mid-infrared spectroscopy. <i>Nature Communications</i> , 2018 , 9, 2792	17.4	21
53	Weak Electron Phonon Coupling and Deep Level Impurity for High Thermoelectric Performance Pb1\(\text{BGaxTe}. \) Advanced Energy Materials, 2018 , 8, 1800659	21.8	75
52	In Situ Synthesis of Highly Dispersed and Ultrafine Metal Nanoparticles from Chalcogels. <i>Journal of the American Chemical Society</i> , 2017 , 139, 2900-2903	16.4	55
51	Multichannel Interdiffusion Driven FASnI Film Formation Using Aqueous Hybrid Salt/Polymer Solutions toward Flexible Lead-Free Perovskite Solar Cells. <i>Advanced Materials</i> , 2017 , 29, 1606964	24	117
50	The Origin of Lower Hole Carrier Concentration in Methylammonium Tin Halide Films Grown by a Vapor-Assisted Solution Process. <i>ACS Energy Letters</i> , 2017 , 2, 22-28	20.1	82
49	Thin Films and Solar Cells Based on Semiconducting Two-Dimensional Ruddlesden B opper (CH3(CH2)3NH3)2(CH3NH3)ndSnnI3n+1 Perovskites. <i>ACS Energy Letters</i> , 2017 , 2, 982-990	20.1	274
48	Performance Enhancement of Lead-Free Tin-Based Perovskite Solar Cells with Reducing Atmosphere-Assisted Dispersible Additive. <i>ACS Energy Letters</i> , 2017 , 2, 897-903	20.1	216
47	Importance of Reducing Vapor Atmosphere in the Fabrication of Tin-Based Perovskite Solar Cells. Journal of the American Chemical Society, 2017 , 139, 836-842	16.4	340

(2015-2017)

46	Highly Efficient Separation of Trivalent Minor Actinides by a Layered Metal Sulfide (KInSnS) from Acidic Radioactive Waste. <i>Journal of the American Chemical Society</i> , 2017 , 139, 16494-16497	16.4	58
45	Millisecond-pulsed photonically-annealed tin oxide electron transport layers for efficient perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 24110-24115	13	32
44	Improved air stability of perovskite solar cells via solution-processed metal oxide transport layers. <i>Nature Nanotechnology</i> , 2016 , 11, 75-81	28.7	1614
43	Copper Ion Binding Site in EAmyloid Peptide. <i>Nano Letters</i> , 2016 , 16, 6282-6289	11.5	32
42	Hexagons to Ribbons: Flipping Cyanide on Au{111}. <i>Journal of the American Chemical Society</i> , 2016 , 138, 15580-15586	16.4	7
41	Surface Structure and Electron Transfer Dynamics of the Self-Assembly of Cyanide on Au{111}. Journal of Physical Chemistry C, 2016 , 120, 26736-26746	3.8	15
40	Overcoming Short-Circuit in Lead-Free CH3NH3SnI3 Perovskite Solar Cells via Kinetically Controlled Gas-Solid Reaction Film Fabrication Process. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 776-82	6.4	242
39	Efficiency Enhancement of Cu2ZnSn(S,Se)4 Solar Cells via Alkali Metals Doping. <i>Advanced Energy Materials</i> , 2016 , 6, 1502386	21.8	91
38	Perovskite Solar Cells Employing Dopant-Free Organic Hole Transport Materials with Tunable Energy Levels. <i>Advanced Materials</i> , 2016 , 28, 440-6	24	217
37	Silver nanowires with semiconducting ligands for low-temperature transparent conductors. <i>Nano Research</i> , 2016 , 9, 392-400	10	25
36	Solution-Processed Air-Stable Mesoscopic Selenium Solar Cells. ACS Energy Letters, 2016, 1, 469-473	20.1	29
35	Unraveling film transformations and device performance of planar perovskite solar cells. <i>Nano Energy</i> , 2015 , 12, 494-500	17.1	61
34	10.5% efficient polymer and amorphous silicon hybrid tandem photovoltaic cell. <i>Nature Communications</i> , 2015 , 6, 6391	17.4	38
33	Improving the TiO2 electron transport layer in perovskite solar cells using acetylacetonate-based additives. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9108-9115	13	94
32	Perovskite solar cells: film formation and properties. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9032-90	50 3	327
31	Under the spotlight: The organic i horganic hybrid halide perovskite for optoelectronic applications. <i>Nano Today</i> , 2015 , 10, 355-396	17.9	700
30	Multilayer Transparent Top Electrode for Solution Processed Perovskite/Cu(In,Ga)(Se,S)2 Four Terminal Tandem Solar Cells. <i>ACS Nano</i> , 2015 , 9, 7714-21	16.7	139
29	The optoelectronic role of chlorine in CH3NH3PbI3(Cl)-based perovskite solar cells. <i>Nature Communications</i> , 2015 , 6, 7269	17.4	354

28	A dopant-free organic hole transport material for efficient planar heterojunction perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 11940-11947	13	182
27	Highly Robust Silver Nanowire Network for Transparent Electrode. <i>ACS Applied Materials & amp; Interfaces</i> , 2015 , 7, 24601-7	9.5	91
26	Hexaaqua Metal Complexes for Low-Temperature Formation of Fully Metal Oxide Thin-Film Transistors. <i>Chemistry of Materials</i> , 2015 , 27, 5808-5812	9.6	68
25	Integrated perovskite/bulk-heterojunction toward efficient solar cells. <i>Nano Letters</i> , 2015 , 15, 662-8	11.5	129
24	The identification and characterization of defect states in hybrid organic-inorganic perovskite photovoltaics. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 112-6	3.6	285
23	Differences in the Toxicological Potential of 2D versus Aggregated Molybdenum Disulfide in the Lung. <i>Small</i> , 2015 , 11, 5079-87	11	76
22	Aspect ratio plays a role in the hazard potential of CeO2 nanoparticles in mouse lung and zebrafish gastrointestinal tract. <i>ACS Nano</i> , 2014 , 8, 4450-64	16.7	89
21	CurrentWoltage characteristics of fully solution processed high performance CuIn(S,Se)2 solar cells: Crossover and red kink. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 120, 642-646	6.4	26
20	Low-temperature solution-processed perovskite solar cells with high efficiency and flexibility. <i>ACS Nano</i> , 2014 , 8, 1674-80	16.7	1216
19	Spatial element distribution control in a fully solution-processed nanocrystals-based 8.6% Cu2ZnSn(S,Se)4 device. <i>ACS Nano</i> , 2014 , 8, 9164-72	16.7	46
18	Photovoltaics. Interface engineering of highly efficient perovskite solar cells. <i>Science</i> , 2014 , 345, 542-6	33.3	5272
17	Nanoscale Joule heating and electromigration enhanced ripening of silver nanowire contacts. <i>ACS Nano</i> , 2014 , 8, 2804-11	16.7	251
16	Controllable self-induced passivation of hybrid lead iodide perovskites toward high performance solar cells. <i>Nano Letters</i> , 2014 , 14, 4158-63	11.5	1143
15	Emerging Transparent Conducting Electrodes for Organic Light Emitting Diodes. <i>Electronics</i> (Switzerland), 2014 , 3, 190-204	2.6	42
14	Moisture assisted perovskite film growth for high performance solar cells. <i>Applied Physics Letters</i> , 2014 , 105, 183902	3.4	598
13	CZTS nanocrystals: a promising approach for next generation thin film photovoltaics. <i>Energy and Environmental Science</i> , 2013 , 6, 2822	35.4	260
12	Rational defect passivation of Cu2ZnSn(S,Se)4 photovoltaics with solution-processed Cu2ZnSnS4:Na nanocrystals. <i>Journal of the American Chemical Society</i> , 2013 , 135, 15998-6001	16.4	127
11	Surface charge and cellular processing of covalently functionalized multiwall carbon nanotubes determine pulmonary toxicity. <i>ACS Nano</i> , 2013 , 7, 2352-68	16.7	232

LIST OF PUBLICATIONS

10	Studies of carrier recombination in solution-processed CuIn(S,Se)2 through photoluminescence spectroscopy. <i>Applied Physics Letters</i> , 2013 , 102, 063902	3.4	5
9	Nanoscale Dispersions of Gelled SnO2: Material Properties and Device Applications. <i>Chemistry of Materials</i> , 2013 , 25, 4725-4730	9.6	65
8	Effect of Tether Conductivity on the Efficiency of Photoisomerization of Azobenzene-Functionalized Molecules on Au{111}. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 2388-9	6·4	22
7	Silver nanowire composite window layers for fully solution-deposited thin-film photovoltaic devices. <i>Advanced Materials</i> , 2012 , 24, 5499-504	24	111
6	Surface-enhanced Raman spectroscopy to probe photoreaction pathways and kinetics of isolated reactants on surfaces: flat versus curved substrates. <i>Nano Letters</i> , 2012 , 12, 5362-8	11.5	38
5	Pluronic F108 coating decreases the lung fibrosis potential of multiwall carbon nanotubes by reducing lysosomal injury. <i>Nano Letters</i> , 2012 , 12, 3050-61	11.5	142
4	Solution-processed flexible transparent conductors composed of silver nanowire networks embedded in indium tin oxide nanoparticle matrices. <i>Nano Research</i> , 2012 , 5, 805-814	10	124
3	Visibly transparent polymer solar cells produced by solution processing. ACS Nano, 2012, 6, 7185-90	16.7	434
2	Solution-Processed TiO2 Nanoparticles as the Window Layer for CuIn(S,Se)2 Devices. <i>Advanced Energy Materials</i> , 2012 , 2, 1368-1374	21.8	6
1	Fused silver nanowires with metal oxide nanoparticles and organic polymers for highly transparent conductors. <i>ACS Nano</i> , 2011 , 5, 9877-82	16.7	326