Jin-Wook Lee

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.

89	13,629	45	95
papers	citations	h-index	g-index
95	16,011 ext. citations	15.7	6.97
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
89	Effect of Fluorine Substitution in a Hole Dopant on the Photovoltaic Performance of Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2022 , 7, 741-748	20.1	4
88	Rethinking the A cation in halide perovskites <i>Science</i> , 2022 , 375, eabj1186	33.3	29
87	Recent Advances on Tin Oxide Electron Transport Layer for High-Performance Perovskite Solar Cells. <i>Ceramist</i> , 2022 , 25, 31-51	0.3	
86	Surface Defect Engineering of Metal Halide Perovskites for Photovoltaic Applications. <i>ACS Energy Letters</i> , 2022 , 7, 1230-1239	20.1	8
85	Mixed-Dimensional Formamidinium Bismuth Iodides Featuring In-Situ Formed Type-I Band Structure for Convolution Neural Networks <i>Advanced Science</i> , 2022 , e2200168	13.6	2
84	Stability-limiting heterointerfaces of perovskite photovoltaics <i>Nature</i> , 2022 ,	50.4	31
83	Nanocrystalline Polymorphic Energy Funnels for Efficient and Stable Perovskite Light-Emitting Diodes. <i>ACS Energy Letters</i> , 2021 , 6, 1821-1830	20.1	10
82	Surface Reconstruction of Halide Perovskites During Post-treatment. <i>Journal of the American Chemical Society</i> , 2021 , 143, 6781-6786	16.4	39
81	Stable and Efficient Methylammonium-, Cesium-, and Bromide-Free Perovskite Solar Cells by In-Situ Interlayer Formation. <i>Advanced Functional Materials</i> , 2021 , 31, 2007520	15.6	19
80	Dynamic structural property of organic-inorganic metal halide perovskite. <i>IScience</i> , 2021 , 24, 101959	6.1	12
79	Scalable perovskite coating via anti-solvent-free Lewis acid B ase adduct engineering for efficient perovskite solar modules. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 3018-3028	13	27
78	In-Situ Nano-Auger Probe of Chloride-Ions during CHNHPbICl Perovskite Formation. <i>Materials</i> , 2021 , 14,	3.5	2
77	Efficient surface passivation of perovskite films by a post-treatment method with a minimal dose. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 3441-3450	13	25
76	A Polymerization-Assisted Grain Growth Strategy for Efficient and Stable Perovskite Solar Cells. <i>Advanced Materials</i> , 2020 , 32, e1907769	24	87
75	Hybrid Integrated Photomedical Devices for Wearable Vital Sign Tracking. ACS Sensors, 2020, 5, 1582-15	588	8
74	Detrimental Effect of Unreacted PbI on the Long-Term Stability of Perovskite Solar Cells. <i>Advanced Materials</i> , 2020 , 32, e1905035	24	123
73	17% efficient perovskite solar mini-module via hexamethylphosphoramide (HMPA)-adduct-based large-area D-bar coating. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 9345-9354	13	31

(2019-2020)

72	Hysteresis-less and stable perovskite solar cells with a self-assembled monolayer. <i>Communications Materials</i> , 2020 , 1,	6	57
71	Perovskite Light-Emitting Diodes: Surface-2D/Bulk-3D Heterophased Perovskite Nanograins for Long-Term-Stable Light-Emitting Diodes (Adv. Mater. 1/2020). <i>Advanced Materials</i> , 2020 , 32, 2070007	24	2
70	Chemical Approaches for Stabilizing Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 190324	19 1.8	88
69	Surface-2D/Bulk-3D Heterophased Perovskite Nanograins for Long-Term-Stable Light-Emitting Diodes. <i>Advanced Materials</i> , 2020 , 32, e1905674	24	36
68	Hermetic seal for perovskite solar cells: An improved plasma enhanced atomic layer deposition encapsulation. <i>Nano Energy</i> , 2020 , 69, 104375	17.1	56
67	Shallow Iodine Defects Accelerate the Degradation of Phase Formamidinium Perovskite. <i>Joule</i> , 2020 , 4, 2426-2442	27.8	72
66	Molecular Interaction Regulates the Performance and Longevity of Defect Passivation for Metal Halide Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2020 , 142, 20071-20079	16.4	72
65	High-Efficiency Perovskite Solar Cells. <i>Chemical Reviews</i> , 2020 , 120, 7867-7918	68.1	587
64	Solid-phase hetero epitaxial growth of Ephase formamidinium perovskite. <i>Nature Communications</i> , 2020 , 11, 5514	17.4	38
63	Steric Impediment of Ion Migration Contributes to Improved Operational Stability of Perovskite Solar Cells. <i>Advanced Materials</i> , 2020 , 32, e1906995	24	76
62	Controlled Redox of Lithium-Ion Endohedral Fullerene for Efficient and Stable Metal Electrode-Free Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2019 , 141, 16553-16558	16.4	35
61	Perovskite-polymer composite cross-linker approach for highly-stable and efficient perovskite solar cells. <i>Nature Communications</i> , 2019 , 10, 520	17.4	262
60	Semiconducting carbon nanotubes as crystal growth templates and grain bridges in perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 12987-12992	13	44
59	Caffeine Improves the Performance and Thermal Stability of Perovskite Solar Cells. <i>Joule</i> , 2019 , 3, 1464	-1 4 .87	266
58	Stable and Reproducible 2D/3D Formamidinium Dead Endide Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2019 , 2, 2486-2493	6.1	42
57	Verification and mitigation of ion migration in perovskite solar cells. APL Materials, 2019, 7, 041111	5.7	125
56	Interface and Defect Engineering for Metal Halide Perovskite Optoelectronic Devices. <i>Advanced Materials</i> , 2019 , 31, e1803515	24	201
55	Crystalline Liquid-like Behavior: Surface-Induced Secondary Grain Growth of Photovoltaic Perovskite Thin Film. <i>Journal of the American Chemical Society</i> , 2019 , 141, 13948-13953	16.4	96

54	A Small-Molecule "Charge Driver" enables Perovskite Quantum Dot Solar Cells with Efficiency Approaching 13. <i>Advanced Materials</i> , 2019 , 31, e1900111	24	58
53	Control of Crystal Growth toward Scalable Fabrication of Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1807047	15.6	74
52	Vapor-Assisted Ex-Situ Doping of Carbon Nanotube toward Efficient and Stable Perovskite Solar Cells. <i>Nano Letters</i> , 2019 , 19, 2223-2230	11.5	43
51	Tuning Molecular Interactions for Highly Reproducible and Efficient Formamidinium Perovskite Solar Cells via Adduct Approach. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6317-6324	16.4	233
50	2D perovskite stabilized phase-pure formamidinium perovskite solar cells. <i>Nature Communications</i> , 2018 , 9, 3021	17.4	407
49	The role of grain boundaries in perovskite solar cells. <i>Materials Today Energy</i> , 2018 , 7, 149-160	7	149
48	Tailored Phase Conversion under Conjugated Polymer Enables Thermally Stable Perovskite Solar Cells with Efficiency Exceeding 21. <i>Journal of the American Chemical Society</i> , 2018 , 140, 17255-17262	16.4	162
47	Achieving High Efficiency in Solution-Processed Perovskite Solar Cells Using C/C Mixed Fullerenes. <i>ACS Applied Materials & Damp; Interfaces</i> , 2018 , 10, 39590-39598	9.5	45
46	Surface Ligand Management for Stable FAPbI3 Perovskite Quantum Dot Solar Cells. <i>Joule</i> , 2018 , 2, 186	56 21/88 78	3 114
45	A Cryogenic Process for Antisolvent-Free High-Performance Perovskite Solar Cells. <i>Advanced Materials</i> , 2018 , 30, e1804402	24	39
44	Semiconducting Metal Oxides for High Performance Perovskite Solar Cells 2018 , 241-265		3
43	Rationally Induced Interfacial Dipole in Planar Heterojunction Perovskite Solar Cells for Reduced JN Hysteresis. <i>Advanced Energy Materials</i> , 2018 , 8, 1800568	21.8	19
42	Impact of Excess CH3NH3I on Free Carrier Dynamics in High-Performance Nonstoichiometric Perovskites. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 3143-3148	3.8	41
41	In-Situ Formed Type I Nanocrystalline Perovskite Film for Highly Efficient Light-Emitting Diode. <i>ACS Nano</i> , 2017 , 11, 3311-3319	16.7	134
40	Halide Perovskites for Tandem Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 1999-2011	6.4	41
39	The Interplay between Trap Density and Hysteresis in Planar Heterojunction Perovskite Solar Cells. <i>Nano Letters</i> , 2017 , 17, 4270-4276	11.5	175
38	The Emergence of the Mixed Perovskites and Their Applications as Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1700491	21.8	103
37	A Bifunctional Lewis Base Additive for Microscopic Homogeneity in Perovskite Solar Cells. <i>CheM</i> ,	16.2	232

(2015-2016)

36	Self-formed grain boundary healing layer for highly efficient CH3NH3PbI3 perovskite solar cells. <i>Nature Energy</i> , 2016 , 1,	62.3	757
35	Moth-Eye TiO2 Layer for Improving Light Harvesting Efficiency in Perovskite Solar Cells. <i>Small</i> , 2016 , 12, 2443-9	11	115
34	Lewis Acid-Base Adduct Approach for High Efficiency Perovskite Solar Cells. <i>Accounts of Chemical Research</i> , 2016 , 49, 311-9	24.3	690
33	Mesoscopic perovskite solar cells with an admixture of nanocrystalline TiOland AlDlirole of interconnectivity of TiOlin charge collection. <i>Nanoscale</i> , 2016 , 8, 6341-51	7.7	24
32	Perovskite Solar Cells: Moth-Eye TiO2 Layer for Improving Light Harvesting Efficiency in Perovskite Solar Cells (Small 18/2016). <i>Small</i> , 2016 , 12, 2530-2530	11	1
31	A Sharp Focus on Perovskite Solar Cells at Sungkyun International Solar Forum (SISF). <i>ACS Energy Letters</i> , 2016 , 1, 500-502	20.1	4
30	APbI3 (A = CH3NH3 and HC(NH2)2) Perovskite Solar Cells: From Sensitization to Planar Heterojunction 2016 , 223-253		3
29	15.76% efficiency perovskite solar cells prepared under high relative humidity: importance of PbI2 morphology in two-step deposition of CH3NH3PbI3. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8808-881	5 13	267
28	On the Role of Interfaces in Planar-Structured HC(NH2)2 PbI3 Perovskite Solar Cells. <i>ChemSusChem</i> , 2015 , 8, 2414-9	8.3	56
27	Niobium Doping Effects on TiO2 Mesoscopic Electron Transport Layer-Based Perovskite Solar Cells. <i>ChemSusChem</i> , 2015 , 8, 2392-8	8.3	123
26	Reduced Graphene Oxide/Mesoporous TiO2 Nanocomposite Based Perovskite Solar Cells. <i>ACS Applied Materials & District Materials & Distri</i>	9.5	153
25	Epitaxial 1D electron transport layers for high-performance perovskite solar cells. <i>Nanoscale</i> , 2015 , 7, 15284-90	7.7	44
24	Electro-spray deposition of a mesoporous TiO2 charge collection layer: toward large scale and continuous production of high efficiency perovskite solar cells. <i>Nanoscale</i> , 2015 , 7, 20725-33	7.7	33
23	Opto-electronic properties of TiO2 nanohelices with embedded HC(NH2)2PbI3 perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9179-9186	13	60
22	Two-step deposition method for high-efficiency perovskite solar cells. MRS Bulletin, 2015, 40, 654-659	3.2	38
21	Formamidinium and Cesium Hybridization for Photo- and Moisture-Stable Perovskite Solar Cell. <i>Advanced Energy Materials</i> , 2015 , 5, 1501310	21.8	1085
20	Modulation of photovoltage in mesoscopic perovskite solar cell by controlled interfacial electron injection. <i>RSC Advances</i> , 2015 , 5, 47334-47340	3.7	23
19	Thermodynamic regulation of CH3NH3PbI3 crystal growth and its effect on photovoltaic performance of perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 19901-19906	13	78

18	Cooperative kinetics of depolarization in CH3NH3PbI3 perovskite solar cells. <i>Energy and Environmental Science</i> , 2015 , 8, 910-915	35.4	102
17	Rutile TiO2-based perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 9251	13	166
16	Enhancement of the photovoltaic performance of CHNHPblfperovskite solar cells through a dichlorobenzene-functionalized hole-transporting material. <i>ChemPhysChem</i> , 2014 , 15, 2595-603	3.2	42
15	Water-repellent perovskite solar cell. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 20017-20021	13	55
14	Panchromatic light harvesting by dye- and quantum dot-sensitized solar cells. <i>Solar Energy</i> , 2014 , 109, 183-188	6.8	10
13	Zn2SnO4-Based Photoelectrodes for Organolead Halide Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 22991-22994	3.8	76
12	Slow Dynamic Processes in Lead Halide Perovskite Solar Cells. Characteristic Times and Hysteresis. Journal of Physical Chemistry Letters, 2014 , 5, 2357-63	6.4	556
11	High-efficiency perovskite solar cells based on the black polymorph of HC(NH2)2 PbI3. <i>Advanced Materials</i> , 2014 , 26, 4991-8	24	732
10	Effect of double blocking layers at TiO2/Sb2S3 and Sb2S3/spiro-MeOTAD interfaces on photovoltaic performance. <i>Faraday Discussions</i> , 2014 , 176, 287-99	3.6	14
9	Perovskite solar cell. <i>Vacuum Magazine</i> , 2014 , 1, 10-13		2
8	Sixfold enhancement of photocurrent by surface charge controlled high density quantum dot coating. <i>Chemical Communications</i> , 2013 , 49, 6448-50	5.8	19
7	Quantum-dot-sensitized solar cell with unprecedentedly high photocurrent. <i>Scientific Reports</i> , 2013 , 3, 1050	4.9	220
6	High efficiency solid-state sensitized solar cell-based on submicrometer rutile TiO2 nanorod and CH3NH3PbI3 perovskite sensitizer. <i>Nano Letters</i> , 2013 , 13, 2412-7	11.5	825
	CHISTORY DIS PEROVSKIEG SCHISICIZET. Hallo Eccests, 2015 , 15, 2112 1		
5	Quantum confinement effect of CdSe induced by nanoscale solvothermal reaction. <i>Nanoscale</i> , 2012 , 4, 6642-8	7.7	13
5	Quantum confinement effect of CdSe induced by nanoscale solvothermal reaction. <i>Nanoscale</i> , 2012	7·7 7·7	13 2465
	Quantum confinement effect of CdSe induced by nanoscale solvothermal reaction. <i>Nanoscale</i> , 2012 , 4, 6642-8		
4	Quantum confinement effect of CdSe induced by nanoscale solvothermal reaction. <i>Nanoscale</i> , 2012 , 4, 6642-8 6.5% efficient perovskite quantum-dot-sensitized solar cell. <i>Nanoscale</i> , 2011 , 3, 4088-93 Evaluation of external quantum efficiency of a 12.35% tandem solar cell comprising dye-sensitized	7.7	2465