

Jangwon Seo

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

28,315
citations

126858

33
h-index

243529

44
g-index

45
all docs

45
docs citations

45
times ranked

19158
citing authors

#	ARTICLE	IF	CITATIONS
1	High-performance photovoltaic perovskite layers fabricated through intramolecular exchange. Science, 2015, 348, 1234-1237.	6.0	5,529
2	Compositional engineering of perovskite materials for high-performance solar cells. Nature, 2015, 517, 476-480.	13.7	5,478
3	Iodide management in formamidinium-lead-halide-based perovskite layers for efficient solar cells. Science, 2017, 356, 1376-1379.	6.0	4,721
4	Efficient perovskite solar cells via improved carrier management. Nature, 2021, 590, 587-593.	13.7	1,972
5	Efficient, stable and scalable perovskite solar cells using poly(3-hexylthiophene). Nature, 2019, 567, 511-515.	13.7	1,867
6	A fluorene-terminated hole-transporting material for highly efficient and stable perovskite solar cells. Nature Energy, 2018, 3, 682-689.	19.8	1,856
7	Colloidally prepared La-doped BaSnO ₃ electrodes for efficient, photostable perovskite solar cells. Science, 2017, 356, 167-171.	6.0	1,045
8	<i>o</i> -Methoxy Substituents in Spiro-OMeTAD for Efficient Inorganic-Organic Hybrid Perovskite Solar Cells. Journal of the American Chemical Society, 2014, 136, 7837-7840.	6.6	702
9	Voltage output of efficient perovskite solar cells with high open-circuit voltage and fill factor. Energy and Environmental Science, 2014, 7, 2614-2618.	15.6	692
10	Fabrication of Efficient Formamidinium Tin Iodide Perovskite Solar Cells through SnF ₂ -Pyrazine Complex. Journal of the American Chemical Society, 2016, 138, 3974-3977.	6.6	658
11	Benefits of very thin PCBM and LiF layers for solution-processed p-i-n perovskite solar cells. Energy and Environmental Science, 2014, 7, 2642-2646.	15.6	622
12	Beneficial Effects of PbI ₂ Incorporated in Organo-Lead Halide Perovskite Solar Cells. Advanced Energy Materials, 2016, 6, 1502104.	10.2	387
13	Rational Strategies for Efficient Perovskite Solar Cells. Accounts of Chemical Research, 2016, 49, 562-572.	7.6	311
14	Understanding how excess lead iodide precursor improves halide perovskite solar cell performance. Nature Communications, 2018, 9, 3301.	5.8	271
15	Engineering interface structures between lead halide perovskite and copper phthalocyanine for efficient and stable perovskite solar cells. Energy and Environmental Science, 2017, 10, 2109-2116.	15.6	169
16	Roll-to-roll gravure-printed flexible perovskite solar cells using eco-friendly antisolvent bathing with wide processing window. Nature Communications, 2020, 11, 5146.	5.8	165
17	Fabrication of metal-oxide-free CH ₃ NH ₃ PbI ₃ perovskite solar cells processed at low temperature. Journal of Materials Chemistry A, 2015, 3, 3271-3275.	5.2	162
18	Structural features and their functions in surfactant-armoured methylammonium lead iodide perovskites for highly efficient and stable solar cells. Energy and Environmental Science, 2018, 11, 2188-2197.	15.6	162

#	ARTICLE	IF	CITATIONS
19	Reducing Carrier Density in Formamidinium Tin Perovskites and Its Beneficial Effects on Stability and Efficiency of Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2018, 3, 46-53.	8.8	158
20	Sequentially Fluorinated PTAA Polymers for Enhancing V_{OC} of High-Performance Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1801668.	10.2	151
21	Record-efficiency flexible perovskite solar cell and module enabled by a porous-planar structure as an electron transport layer. <i>Energy and Environmental Science</i> , 2020, 13, 4854-4861.	15.6	137
22	A Low-Temperature Thin-Film Encapsulation for Enhanced Stability of a Highly Efficient Perovskite Solar Cell. <i>Advanced Energy Materials</i> , 2018, 8, 1701928.	10.2	136
23	Gravure-Printed Flexible Perovskite Solar Cells: Toward Roll-to-Roll Manufacturing. <i>Advanced Science</i> , 2019, 6, 1802094.	5.6	115
24	Indolo[3,2-b]indole-based crystalline hole-transporting material for highly efficient perovskite solar cells. <i>Chemical Science</i> , 2017, 8, 734-741.	3.7	102
25	Effective Electron Blocking of CuPCl ₂ -Doped Spiro-OMeTAD for Highly Efficient Inorganic-Organic Hybrid Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1501320.	10.2	84
26	Fast two-step deposition of perovskite <i>via</i> mediator extraction treatment for large-area, high-performance perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12447-12454.	5.2	83
27	Selective Defect Passivation and Topographical Control of 4-Dimethylaminopyridine at Grain Boundary for Efficient and Stable Planar Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2003382.	10.2	82
28	Achieving Long-Term Operational Stability of Perovskite Solar Cells with a Stabilized Efficiency Exceeding 20% after 1000 h. <i>Advanced Science</i> , 2019, 6, 1900528.	5.6	70
29	Toward Efficient Perovskite Solar Cells: Progress, Strategies, and Perspectives. <i>ACS Energy Letters</i> , 2022, 7, 2084-2091.	8.8	68
30	Methoxy-Functionalized Triarylamine-Based Hole-Transporting Polymers for Highly Efficient and Stable Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2020, 5, 3304-3313.	8.8	59
31	Highly efficient and stable flexible perovskite solar cells enabled by using plasma-polymerized-fluorocarbon antireflection layer. <i>Nano Energy</i> , 2021, 82, 105737.	8.2	46
32	Transparent Electrodes Consisting of a Surface-Treated Buffer Layer Based on Tungsten Oxide for Semitransparent Perovskite Solar Cells and Four-Terminal Tandem Applications. <i>Small Methods</i> , 2020, 4, 2000074.	4.6	41
33	Defect-Tolerant Sodium-Based Dopant in Charge Transport Layers for Highly Efficient and Stable Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2020, 5, 1198-1205.	8.8	33
34	Metal-Free Phthalocyanine as a Hole Transporting Material and a Surface Passivator for Efficient and Stable Perovskite Solar Cells. <i>Small Methods</i> , 2021, 5, e2001248.	4.6	33
35	Kinetics of light-induced degradation in semi-transparent perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2021, 219, 110776.	3.0	29
36	Copper Oxide Buffer Layers by Pulsed-Chemical Vapor Deposition for Semitransparent Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2021, 8, .	1.9	23

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37	A Thermally Induced Perovskite Crystal Control Strategy for Efficient and Photostable Wide-Bandgap Perovskite Solar Cells. <i>Solar Rrl</i> , 2020, 4, 2000033.	3.1	22
38	Molecular Engineering for Function-Tailored Interface Modifier in High-Performance Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	16
39	Roll-to-roll manufacturing toward lab-to-fab-translation of perovskite solar cells. <i>APL Materials</i> , 2021, 9, .	2.2	14
40	High-performance, large-area semitransparent and tandem perovskite solar cells featuring highly scalable a-ITO/Ag mesh 3D top electrodes. <i>Nano Energy</i> , 2022, 95, 106978.	8.2	14
41	Transparent Electrodes with Enhanced Infrared Transmittance for Semitransparent and Four-Terminal Tandem Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 30497-30503.	4.0	11
42	Thermally activated, light-induced electron-spin-resonance spin density reflected by photocurrents in a perovskite solar cell. <i>Applied Physics Letters</i> , 2019, 114, 013903.	1.5	10
43	Perspective: approaches for layers above the absorber in perovskite solar cells for semitransparent and tandem applications. <i>Materials Today Energy</i> , 2021, 21, 100729.	2.5	5
44	Ambient Air-Processed Wide-Bandgap Perovskite Solar Cells with Well-Controlled Film Morphology for Four-Terminal Tandem Application. <i>Solar Rrl</i> , 2022, 6, .	3.1	4
45	Influence of Photon Pump Fluence on Charge Carriers in FAPbI ₃ and Manganite Perovskites. <i>Advances in Chemical Engineering and Science</i> , 2022, 12, 54-64.	0.2	0