

# Jangwon Seo

## List of Publications by Year in descending order

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45  
papers

28,315  
citations

126858

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docs citations

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times ranked

19158  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of Photon Pump Fluence on Charge Carriers in FAPbI <sub>3</sub> and Manganite Perovskites. <i>Advances in Chemical Engineering and Science</i> , 2022, 12, 54-64.	0.2	0
2	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
3	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
4	Molecular Engineering for Function-Tailored Interface Modifier in High-Performance Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	16
5	Toward Efficient Perovskite Solar Cells: Progress, Strategies, and Perspectives. <i>ACS Energy Letters</i> , 2022, 7, 2084-2091.	8.8	68
6	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
7	Copper Oxide Buffer Layers by Pulsed-Chemical Vapor Deposition for Semitransparent Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2021, 8, .	1.9	23
8	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
9	Efficient perovskite solar cells via improved carrier management. <i>Nature</i> , 2021, 590, 587-593.	13.7	1,972
10	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
11	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
12	Transparent Electrodes with Enhanced Infrared Transmittance for Semitransparent and Four-Terminal Tandem Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 30497-30503.	4.0	11
13	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
14	Roll-to-roll manufacturing toward lab-to-fab-translation of perovskite solar cells. <i>APL Materials</i> , 2021, 9, .	2.2	14
15	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
16	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
17	Roll-to-roll gravure-printed flexible perovskite solar cells using eco-friendly antisolvent bathing with wide processing window. <i>Nature Communications</i> , 2020, 11, 5146.	5.8	165
18	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

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19	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
20	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
21	Gravure-Printed Flexible Perovskite Solar Cells: Toward Roll-to-Roll Manufacturing. <i>Advanced Science</i> , 2019, 6, 1802094.	5.6	115
22	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
23	Efficient, stable and scalable perovskite solar cells using poly(3-hexylthiophene). <i>Nature</i> , 2019, 567, 511-515.	13.7	1,867
24	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
25	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
26	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
27	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
28	Structural features and their functions in surfactant-armoured methylammonium lead iodide perovskites for highly efficient and stable solar cells. <i>Energy and Environmental Science</i> , 2018, 11, 2188-2197.	15.6	162
29	A fluorene-terminated hole-transporting material for highly efficient and stable perovskite solar cells. <i>Nature Energy</i> , 2018, 3, 682-689.	19.8	1,856
30	Understanding how excess lead iodide precursor improves halide perovskite solar cell performance. <i>Nature Communications</i> , 2018, 9, 3301.	5.8	271
31	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
32	Colloidally prepared La-doped BaSnO <sub>3</sub> electrodes for efficient, photostable perovskite solar cells. <i>Science</i> , 2017, 356, 167-171.	6.0	1,045
33	Engineering interface structures between lead halide perovskite and copper phthalocyanine for efficient and stable perovskite solar cells. <i>Energy and Environmental Science</i> , 2017, 10, 2109-2116.	15.6	169
34	Iodide management in formamidinium-lead-halide-based perovskite layers for efficient solar cells. <i>Science</i> , 2017, 356, 1376-1379.	6.0	4,721
35	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
36	Beneficial Effects of Pb <sub>2</sub> Incorporated in Organo-Lead Halide Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1502104.	10.2	387

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37	Rational Strategies for Efficient Perovskite Solar Cells. <i>Accounts of Chemical Research</i> , 2016, 49, 562-572.	7.6	311
38	Fabrication of Efficient Formamidinium Tin Iodide Perovskite Solar Cells through SnF <sub>2</sub> •Pyrazine Complex. <i>Journal of the American Chemical Society</i> , 2016, 138, 3974-3977.	6.6	658
39	Effective Electron Blocking of CuPCl <sub>2</sub> -Doped Spiro-OMeTAD for Highly Efficient Inorganic-Organic Hybrid Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1501320.	10.2	84
40	High-performance photovoltaic perovskite layers fabricated through intramolecular exchange. <i>Science</i> , 2015, 348, 1234-1237.	6.0	5,529
41	Compositional engineering of perovskite materials for high-performance solar cells. <i>Nature</i> , 2015, 517, 476-480.	13.7	5,478
42	Fabrication of metal-oxide-free CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite solar cells processed at low temperature. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3271-3275.	5.2	162
43	<i>o</i> -Methoxy Substituents in Spiro-OMeTAD for Efficient Inorganic-Organic Hybrid Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2014, 136, 7837-7840.	6.6	702
44	Voltage output of efficient perovskite solar cells with high open-circuit voltage and fill factor. <i>Energy and Environmental Science</i> , 2014, 7, 2614-2618.	15.6	692
45	Benefits of very thin PCBM and LiF layers for solution-processed p-i-n perovskite solar cells. <i>Energy and Environmental Science</i> , 2014, 7, 2642-2646.	15.6	622