

# Dae-Yong Son

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

6,315  
citations

331670

21  
h-index

642732

23  
g-index

23  
all docs

23  
docs citations

23  
times ranked

8854  
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Reproducible Perovskite Solar Cells with Average Efficiency of 18.3% and Best Efficiency of 19.7% Fabricated via Lewis Base Adduct of Lead(II) Iodide. <i>Journal of the American Chemical Society</i> , 2015, 137, 8696-8699.	13.7	2,030
2	Lithium-ion batteries: outlook on present, future, and hybridized technologies. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2942-2964.	10.3	1,266
3	Self-formed grain boundary healing layer for highly efficient CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite solar cells. <i>Nature Energy</i> , 2016, 1, .	39.5	902
4	Printable organometallic perovskite enables large-area, low-dose X-ray imaging. <i>Nature</i> , 2017, 550, 87-91.	27.8	763
5	A holistic approach to interface stabilization for efficient perovskite solar modules with over 2,000-hour operational stability. <i>Nature Energy</i> , 2020, 5, 596-604.	39.5	274
6	Scalable Fabrication of Stable High Efficiency Perovskite Solar Cells and Modules Utilizing Room Temperature Sputtered SnO <sub>2</sub> Electron Transport Layer. <i>Advanced Functional Materials</i> , 2019, 29, 1806779.	14.9	118
7	Unraveling the Impact of Halide Mixing on Perovskite Stability. <i>Journal of the American Chemical Society</i> , 2019, 141, 3515-3523.	13.7	116
8	Hybrid chemical vapor deposition enables scalable and stable Cs-FA mixed cation perovskite solar modules with a designated area of 91.8 cm <sup>2</sup> approaching 10% efficiency. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6920-6929.	10.3	112
9	Interfacial Modification of Perovskite Solar Cells Using an Ultrathin MAI Layer Leads to Enhanced Energy Level Alignment, Efficiencies, and Reproducibility. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3947-3953.	4.6	101
10	Observation of Enhanced Hole Extraction in Br Concentration Gradient Perovskite Materials. <i>Nano Letters</i> , 2016, 16, 5756-5763.	9.1	91
11	Carbon-Based Electrode Engineering Boosts the Efficiency of All Low-Temperature-Processed Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2019, 4, 2032-2039.	17.4	79
12	Scalable Fabrication of >90 cm <sup>2</sup> Perovskite Solar Modules with >1000 h Operational Stability Based on the Intermediate Phase Strategy. <i>Advanced Energy Materials</i> , 2021, 11, 2003712.	19.5	76
13	1D Hexagonal HC(NH <sub>2</sub> ) <sub>2</sub> PbI <sub>3</sub> for Multilevel Resistive Switching Nonvolatile Memory. <i>Advanced Electronic Materials</i> , 2018, 4, 1800190.	5.1	70
14	Negligible Pb Waste and Upscalable Perovskite Deposition Technology for High Operational Stability Perovskite Solar Modules. <i>Advanced Energy Materials</i> , 2019, 9, 1803047.	19.5	68
15	Water Splitting Exceeding 17% Solar-to-Hydrogen Conversion Efficiency Using Solution-Processed Ni-Based Electrocatalysts and Perovskite/Si Tandem Solar Cell. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 33835-33843.	8.0	67
16	Rapid hybrid chemical vapor deposition for efficient and hysteresis-free perovskite solar modules with an operation lifetime exceeding 800 hours. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23404-23412.	10.3	34
17	Inverse Growth of Large-Grain-Size and Stable Inorganic Perovskite Micronanowire Photodetectors. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 14185-14194.	8.0	30
18	Mesoscopic perovskite solar cells with an admixture of nanocrystalline TiO <sub>2</sub> and Al <sub>2</sub> O <sub>3</sub> : role of interconnectivity of TiO <sub>2</sub> in charge collection. <i>Nanoscale</i> , 2016, 8, 6341-6351.	5.6	26

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19	2D Derivative Phase Induced Growth of 3D All Inorganic Perovskite Microâ€“Nanowire Array Based Photodetectors. <i>Advanced Functional Materials</i> , 2020, 30, 2002526.	14.9	26
20	Imaging of the Atomic Structure of All-Inorganic Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 818-823.	4.6	26
21	Modulation of photovoltage in mesoscopic perovskite solar cell by controlled interfacial electron injection. <i>RSC Advances</i> , 2015, 5, 47334-47340.	3.6	25
22	The Impact of Atmosphere on Energetics of Lead Halide Perovskites. <i>Advanced Energy Materials</i> , 2020, 10, 2000908.	19.5	12
23	A solidâ€“liquid hybrid electrolyte for lithium ion batteries enabled by a single-body polymer/indium tin oxide architecture. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 475501.	2.8	3