Dae-Yong Son

List of Publications by Year
in descending order

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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	Scalable Fabrication of >90 cm² Perovskite Solar Modules with >1000 h Operational Stability Based on the Intermediate Phase Strategy. Advanced Energy Materials, 2021, 11, 2003712.	19.5	76
2	A solidâ€“liquid hybrid electrolyte for lithium ion batteries enabled by a single-body polymer/indium tin oxide architecture. Journal Physics D: Applied Physics, 2021, 54, 475501.	2.8	3
3	Rapid hybrid chemical vapor deposition for efficient and hysteresis-free perovskite solar modules with an operation lifetime exceeding 800 hours. Journal of Materials Chemistry A, 2020, 8, 23404-23412.	10.3	34
4	A holistic approach to interface stabilization for efficient perovskite solar modules with over 2,000-hour operational stability. Nature Energy, 2020, 5, 596-604.	39.5	274
5	The Impact of Atmosphere on Energetics of Lead Halide Perovskites. Advanced Energy Materials, 2020, 10, 2000908.	19.5	12
6	2D Derivative Phase Induced Growth of 3D All Inorganic Perovskite Microâ€“Nanowire Array Based Photodetectors. Advanced Functional Materials, 2020, 30, 2002526.	14.9	26
7	Inverse Growth of Large-Grain-Size and Stable Inorganic Perovskite Micronanowire Photodetectors. ACS Applied Materials & Interfaces, 2020, 12, 14185-14194.	8.0	30
8	Imaging of the Atomic Structure of All-Inorganic Halide Perovskites. Journal of Physical Chemistry Letters, 2020, 11, 818-823.	4.6	26
9	Water Splitting Exceeding 17% Solar-to-Hydrogen Conversion Efficiency Using Solution-Processed Ni-Based Electrocatalysts and Perovskite/Si Tandem Solar Cell. ACS Applied Materials & Interfaces, 2019, 11, 33835-33843.	8.0	67
10	Carbon-Based Electrode Engineering Boosts the Efficiency of All Low-Temperature-Processed Perovskite Solar Cells. ACS Energy Letters, 2019, 4, 2032-2039.	17.4	79
11	Lithium-ion batteries: outlook on present, future, and hybridized technologies. Journal of Materials Chemistry A, 2019, 7, 2942-2964.	10.3	1,266
12	Hybrid chemical vapor deposition enables scalable and stable Cs-FA mixed cation perovskite solar modules with a designated area of 91.8 cm² approaching 10% efficiency. Journal of Materials Chemistry A, 2019, 7, 6920-6929.	10.3	112
13	Negligibleâ€Pbâ€Waste and Upscalable Perovskite Deposition Technology for Highâ€Operationalâ€Stability Perovskite Solar Modules. Advanced Energy Materials, 2019, 9, 1803047.	19.5	68
14	Unraveling the Impact of Halide Mixing on Perovskite Stability. Journal of the American Chemical Society, 2019, 141, 3515-3523.	13.7	116
15	Scalable Fabrication of Stable High Efficiency Perovskite Solar Cells and Modules Utilizing Room Temperature Sputtered SnO₂ Electron Transport Layer. Advanced Functional Materials, 2019, 29, 1806779.	14.9	118
16	1D Hexagonal HC(NH₂)₂PbI₃ for Multilevel Resistive Switching Nonvolatile Memory. Advanced Electronic Materials, 2018, 4, 1800190.	5.1	70
17	Printable organometallic perovskite enables large-area, low-dose X-ray imaging. Nature, 2017, 550, 87-91.	27.8	763
18	Interfacial Modification of Perovskite Solar Cells Using an Ultrathin MAI Layer Leads to Enhanced Energy Level Alignment, Efficiencies, and Reproducibility. Journal of Physical Chemistry Letters, 2017, 8, 3947-3953.	4.6	101

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19	Observation of Enhanced Hole Extraction in Br Concentration Gradient Perovskite Materials. Nano Letters, 2016, 16, 5756-5763.	9.1	91
20	Self-formed grain boundary healing layer for highly efficient CH3NH3PbI3 perovskite solar cells. Nature Energy, 2016, 1, .	39.5	902
21	Mesoscopic perovskite solar cells with an admixture of nanocrystalline TiO₂and Al₂O₃: role of interconnectivity of TiO₂in charge collection. Nanoscale, 2016, 8, 6341-6351.	5.6	26
22	Modulation of photovoltage in mesoscopic perovskite solar cell by controlled interfacial electron injection. RSC Advances, 2015, 5, 47334-47340.	3.6	25
23	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. Journal of the American Chemical Society, 2015, 137, 8696-8699.	13.7	2,030