

Jaeki Jeong

List of Publications by Year in descending order

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29
papers

5,154
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516215

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docs citations

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times ranked

5887
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#	ARTICLE	IF	CITATIONS
1	Pseudo-halide anion engineering for FAPbI_3 perovskite solar cells. <i>Nature</i> , 2021, 592, 381-385.	13.7	2,095
2	Conformal quantum dot SnO_2 layers as electron transporters for efficient perovskite solar cells. <i>Science</i> , 2022, 375, 302-306.	6.0	872
3	Cesium-doped methylammonium lead iodide perovskite light absorber for hybrid solar cells. <i>Nano Energy</i> , 2014, 7, 80-85.	8.2	459
4	Boosting the Power Conversion Efficiency of Perovskite Solar Cells Using Self-Organized Polymeric Hole Extraction Layers with High Work Function. <i>Advanced Materials</i> , 2014, 26, 6461-6466.	11.1	321
5	Conjugated polyelectrolyte hole transport layer for inverted-type perovskite solar cells. <i>Nature Communications</i> , 2015, 6, 7348.	5.8	281
6	Mixed solvents for the optimization of morphology in solution-processed, inverted-type perovskite/fullerene hybrid solar cells. <i>Nanoscale</i> , 2014, 6, 6679.	2.8	275
7	Electrical power generation by mechanically modulating electrical double layers. <i>Nature Communications</i> , 2013, 4, 1487.	5.8	176
8	Modulation of perovskite crystallization processes towards highly efficient and stable perovskite solar cells with MXene quantum dot-modified SnO_2 . <i>Energy and Environmental Science</i> , 2021, 14, 3447-3454.	15.6	115
9	Fluorine Functionalized Graphene Nano Platelets for Highly Stable Inverted Perovskite Solar Cells. <i>Nano Letters</i> , 2017, 17, 6385-6390.	4.5	106
10	Ultrathin, lightweight and flexible perovskite solar cells with an excellent power-per-weight performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1107-1114.	5.2	100
11	Vivid and Fully Saturated Blue Light-Emitting Diodes Based on Ligand-Modified Halide Perovskite Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 23401-23409.	4.0	60
12	Peroptronic devices: perovskite-based light-emitting solar cells. <i>Energy and Environmental Science</i> , 2017, 10, 1950-1957.	15.6	41
13	A thermally stable, barium-stabilized CsPbI_3 perovskite for optoelectronic devices. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21740-21746.	5.2	37
14	High colloidal stability ZnO nanoparticles independent on solvent polarity and their application in polymer solar cells. <i>Scientific Reports</i> , 2020, 10, 18055.	1.6	25
15	Ternary Halide Perovskites for Highly Efficient Solution-Processed Hybrid Solar Cells. <i>ACS Energy Letters</i> , 2016, 1, 712-718.	8.8	24
16	Size tailoring of aqueous germanium nanoparticle dispersions. <i>Nanoscale</i> , 2014, 6, 10156-10160.	2.8	21
17	Implementation of Low-Power Electronic Devices Using Solution-Processed Tantalum Pentoxide Dielectric. <i>Advanced Functional Materials</i> , 2018, 28, 1704215.	7.8	17
18	Ultrafast carbothermal reduction of silica to silicon using a CO ₂ laser beam. <i>Scientific Reports</i> , 2020, 10, 21730.	1.6	15

#	ARTICLE	IF	CITATIONS
19	Dichroic Sb ₂ O ₃ /Ag/Sb ₂ O ₃ Electrodes for Colorful Semitransparent Organic Solar Cells. <i>Solar Rrl</i> , 2020, 4, 2000201.	3.1	15
20	Ambient-Stable Cubic-Phase Hybrid Perovskite Reaching the Shockley-Queisser Fill Factor Limit via Inorganic Additive-Assisted Process. <i>ACS Applied Energy Materials</i> , 2018, 1, 5865-5871.	2.5	13
21	Interfacial engineering from material to solvent: A mechanistic understanding on stabilizing Pb^{2+} -formamidinium lead triiodide perovskite photovoltaics. <i>Nano Energy</i> , 2022, 94, 106924.	8.2	13
22	The introduction of a perovskite seed layer for high performance perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20138-20144.	5.2	12
23	Clean thermal decomposition of tertiary-alkyl metal thiolates to metal sulfides: environmentally-benign, non-polar inks for solution-processed chalcopyrite solar cells. <i>Scientific Reports</i> , 2016, 6, 36608.	1.6	11
24	Fast vaporizing anti-solvent for high crystalline perovskite to achieve high performance perovskite solar cells. <i>Thin Solid Films</i> , 2018, 661, 122-127.	0.8	11
25	Formamidinium-based planar heterojunction perovskite solar cells with alkali carbonate-doped zinc oxide layer. <i>RSC Advances</i> , 2018, 8, 24110-24115.	1.7	10
26	Production of pristine, sulfur-coated and silicon-alloyed germanium nanoparticles via laser pyrolysis. <i>Nanotechnology</i> , 2015, 26, 305703.	1.3	9
27	Waterproof perovskites: high fluorescence quantum yield and stability from a methylammonium lead bromide/formate mixture in water. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5873-5881.	2.7	9
28	ZnO decorated germanium nanoparticles as anode materials in Li-ion batteries. <i>Nanotechnology</i> , 2017, 28, 095402.	1.3	6
29	The optimization of intermediate semi-bonding structure using solvent vapor annealing for high performance p-i-n structure perovskite solar cells. <i>Organic Electronics</i> , 2019, 65, 300-304.	1.4	5