

Ji-Youn Seo

List of Publications by Year in descending order

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28
papers

9,629
citations

394421

19
h-index

454955

30
g-index

30
all docs

30
docs citations

30
times ranked

10856
citing authors

#	ARTICLE	IF	CITATIONS
1	Cesium-containing triple cation perovskite solar cells: improved stability, reproducibility and high efficiency. <i>Energy and Environmental Science</i> , 2016, 9, 1989-1997.	30.8	4,560
2	Incorporation of rubidium cations into perovskite solar cells improves photovoltaic performance. <i>Science</i> , 2016, 354, 206-209.	12.6	3,137
3	Enhancing Efficiency of Perovskite Solar Cells via N-doped Graphene: Crystal Modification and Surface Passivation. <i>Advanced Materials</i> , 2016, 28, 8681-8686.	21.0	281
4	The effect of illumination on the formation of metal halide perovskite films. <i>Nature</i> , 2017, 545, 208-212.	27.8	242
5	Ionic Liquid Control Crystal Growth to Enhance Planar Perovskite Solar Cells Efficiency. <i>Advanced Energy Materials</i> , 2016, 6, 1600767.	19.5	224
6	Novel p-dopant toward highly efficient and stable perovskite solar cells. <i>Energy and Environmental Science</i> , 2018, 11, 2985-2992.	30.8	216
7	Stabilization of Highly Efficient and Stable Phase-pure FAPbI_3 Perovskite Solar Cells by Molecularly Tailored 2D-overlayers. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15688-15694.	13.8	201
8	Room-temperature Formation of Highly Crystalline Multication Perovskites for Efficient, Low-cost Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1606258.	21.0	124
9	Boosting the Efficiency of Perovskite Solar Cells with CsBr-modified Mesoporous TiO_2 Beads as Electron-selective Contact. <i>Advanced Functional Materials</i> , 2018, 28, 1705763.	14.9	115
10	Supramolecular Engineering for Formamidinium-based Layered 2D Perovskite Solar Cells: Structural Complexity and Dynamics Revealed by Solid-state NMR Spectroscopy. <i>Advanced Energy Materials</i> , 2019, 9, 1900284.	19.5	89
11	New Insight into the Formation of Hybrid Perovskite Nanowires via Structure Directing Adducts. <i>Chemistry of Materials</i> , 2017, 29, 587-594.	6.7	68
12	Dopant Engineering for Spiro-OMeTAD Hole-transporting Materials towards Efficient Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2021, 31, 2102124.	14.9	67
13	Effect of Cs-Incorporated NiO_x on the Performance of Perovskite Solar Cells. <i>ACS Omega</i> , 2017, 2, 9074-9079.	3.5	43
14	Site-selective Synthesis of I^{2+} -PCBM-like Fullerenes: Efficient Application in Perovskite Solar Cells. <i>Chemistry - A European Journal</i> , 2019, 25, 3224-3228.	3.3	37
15	Phenolic Polyene Crystals with Tailored Physical Properties and Very Large Nonlinear Optical Response. <i>Chemistry of Materials</i> , 2011, 23, 239-246.	6.7	36
16	Power output stabilizing feature in perovskite solar cells at operating condition: Selective contact-dependent charge recombination dynamics. <i>Nano Energy</i> , 2019, 61, 126-131.	16.0	35
17	Molecular Origins of the High-Performance Nonlinear Optical Susceptibility in a Phenolic Polyene Chromophore: Electron Density Distributions, Hydrogen Bonding, and ab Initio Calculations. <i>Journal of Physical Chemistry C</i> , 2013, 117, 9416-9430.	3.1	34
18	Crystal engineering by eliminating weak hydrogen bonding sites in phenolic polyene nonlinear optical crystals. <i>CrystEngComm</i> , 2009, 11, 1541.	2.6	24

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19	Influence of Alkoxy Chain Length on the Properties of Two-Dimensionally Expanded Azulene-Core-Based Hole-Transporting Materials for Efficient Perovskite Solar Cells. <i>Chemistry - A European Journal</i> , 2019, 25, 6741-6752.	3.3	21
20	Stabilization of Highly Efficient and Stable Phase-Pure FAPbI ₃ Perovskite Solar Cells by Molecularly Tailored 2D-Overlayers. <i>Angewandte Chemie</i> , 2020, 132, 15818-15824.	2.0	17
21	Large-Size Pyrrolidine-Based Polyene Single Crystals Suitable for Terahertz Wave Generation. <i>Crystal Growth and Design</i> , 2009, 9, 5003-5005.	3.0	15
22	New Thiolated Nitrophenylhydrazone Crystals for Nonlinear Optics. <i>Crystal Growth and Design</i> , 2012, 12, 313-319.	3.0	13
23	Thickness Control of Highly Efficient Organic Electro-Optic Phenolic Polyene Crystals by Metal Acetates. <i>Crystal Growth and Design</i> , 2009, 9, 4269-4272.	3.0	11
24	Rotational Isomerism of Phenylthiolated Chromophores with Large Variation of Optical Nonlinearity. <i>Journal of Physical Chemistry C</i> , 2012, 116, 25034-25043.	3.1	5
25	Unusual Twisting and Bending of Phenyltriene with Methylthiolated Biphenyl Sulfane Group in the Crystalline State. <i>Crystal Growth and Design</i> , 2013, 13, 1014-1022.	3.0	5
26	Additives, Hole Transporting Materials and Spectroscopic Methods to Characterize the Properties of Perovskite Films. <i>Chimia</i> , 2017, 71, 754.	0.6	4
27	Solar Cells: Ionic Liquid Control Crystal Growth to Enhance Planar Perovskite Solar Cells Efficiency (Adv. Energy Mater. 20/2016). <i>Advanced Energy Materials</i> , 2016, 6, .	19.5	2
28	Density functional theory and time-dependent density functional theory studies on optoelectronic properties of fused heterocycles with cyclooctatetraene. <i>Bulletin of the Korean Chemical Society</i> , 2022, 43, 990-998.	1.9	1