Ji-Youn Seo

List of Publications by Year
in descending order

28 papers	9,629 citations	393982 19 h-index	454577 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. Energy and Environmental Science, 2016, 9, 1989-1997.	15.6	4,560
2	Incorporation of rubidium cations into perovskite solar cells improves photovoltaic performance. Science, 2016, 354, 206-209.	6.0	3,137
3	Enhancing Efficiency of Perovskite Solar Cells via Nâ€doped Graphene: Crystal Modification and Surface Passivation. Advanced Materials, 2016, 28, 8681-8686.	11.1	281
4	The effect of illumination on the formation of metal halide perovskite films. Nature, 2017, 545, 208-212.	13.7	242
5	Ionic Liquid Control Crystal Growth to Enhance Planar Perovskite Solar Cells Efficiency. Advanced Energy Materials, 2016, 6, 1600767.	10.2	224
6	Novel p-dopant toward highly efficient and stable perovskite solar cells. Energy and Environmental Science, 2018, 11, 2985-2992.	15.6	216
7	Stabilization of Highly Efficient and Stable Phaseâ€Pure FAPbI₃ Perovskite Solar Cells by Molecularly Tailored 2Dâ€Overlayers. Angewandte Chemie - International Edition, 2020, 59, 15688-15694.	7.2	201
8	Roomâ€Temperature Formation of Highly Crystalline Multication Perovskites for Efficient, Lowâ€Cost Solar Cells. Advanced Materials, 2017, 29, 1606258.	11.1	124
9	Boosting the Efficiency of Perovskite Solar Cells with CsBrâ€Modified Mesoporous TiO₂ Beads as Electronâ€Selective Contact. Advanced Functional Materials, 2018, 28, 1705763.	7.8	115
10	Supramolecular Engineering for Formamidiniumâ€Based Layered 2D Perovskite Solar Cells: Structural Complexity and Dynamics Revealed by Solidâ€State NMR Spectroscopy. Advanced Energy Materials, 2019, 9, 1900284.	10.2	89
11	New Insight into the Formation of Hybrid Perovskite Nanowires via Structure Directing Adducts. Chemistry of Materials, 2017, 29, 587-594.	3.2	68
12	Dopant Engineering for Spiroâ€OMeTAD Holeâ€Transporting Materials towards Efficient Perovskite Solar Cells. Advanced Functional Materials, 2021, 31, 2102124.	7.8	67
13	Effect of Cs-Incorporated NiO_x on the Performance of Perovskite Solar Cells. ACS Omega, 2017, 2, 9074-9079.	1.6	43
14	Siteâ€selective Synthesis of Î²â€[70]PCBMâ€like Fullerenes: Efficient Application in Perovskite Solar Cells. Chemistry - A European Journal, 2019, 25, 3224-3228.	1.7	37
15	Phenolic Polyene Crystals with Tailored Physical Properties and Very Large Nonlinear Optical Response. Chemistry of Materials, 2011, 23, 239-246.	3.2	36
16	Power output stabilizing feature in perovskite solar cells at operating condition: Selective contact-dependent charge recombination dynamics. Nano Energy, 2019, 61, 126-131.	8.2	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. Journal of Physical Chemistry C, 2013, 117, 9416-9430.	1.5	34
18	Crystal engineering by eliminating weak hydrogen bonding sites in phenolic polyene nonlinear optical crystals. CrystEngComm, 2009, 11, 1541.	1.3	24

#	Article	IF	Citations
19	Influence of Alkoxy Chain Length on the Properties of Twoâ€Dimensionally Expanded Azuleneâ€Coreâ€Based Holeâ€Transporting Materials for Efficient Perovskite Solar Cells. Chemistry - A European Journal, 2019, 25, 6741-6752.	1.7	21
20	Stabilization of Highly Efficient and Stable Phaseâ€Pure FAPbI₃ Perovskite Solar Cells by Molecularly Tailored 2Dâ€Overlayers. Angewandte Chemie, 2020, 132, 15818-15824.	1.6	17
21	Large-Size Pyrrolidine-Based Polyene Single Crystals Suitable for Terahertz Wave Generation. Crystal Growth and Design, 2009, 9, 5003-5005.	1.4	15
22	New Thiolated Nitrophenylhydrazone Crystals for Nonlinear Optics. Crystal Growth and Design, 2012, 12, 313-319.	1.4	13
23	Thickness Control of Highly Efficient Organic Electro-Optic Phenolic Polyene Crystals by Metal Acetates. Crystal Growth and Design, 2009, 9, 4269-4272.	1.4	11
24	Rotational Isomerism of Phenylthiolated Chromophores with Large Variation of Optical Nonlinearity. Journal of Physical Chemistry C, 2012, 116, 25034-25043.	1.5	5
25	Unusual Twisting and Bending of Phenyltriene with Methylthiolated Biphenyl Sulfane Group in the Crystalline State. Crystal Growth and Design, 2013, 13, 1014-1022.	1.4	5
26	Additives, Hole Transporting Materials and Spectroscopic Methods to Characterize the Properties of Perovskite Films. Chimia, 2017, 71, 754.	0.3	4
27	Solar Cells: Ionic Liquid Control Crystal Growth to Enhance Planar Perovskite Solar Cells Efficiency (Adv. Energy Mater. 20/2016). Advanced Energy Materials, 2016, 6, .	10.2	2
28	Density functional theory and timeâ€dependent density functional theory studies on optoelectronic properties of fused heterocycles with cyclooctatetraene. Bulletin of the Korean Chemical Society, 2022, 43, 990-998.	1.0	1