Sven HÃ¼ttner

List of Publications by Year
in descending order

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28 papers	4,247 citations	279798 23 h-index	501196 28 g-index
29 all docs	29 docs citations	29 times ranked	7671 citing authors

#	Article	IF	Citations
1	High Photoluminescence Efficiency and Optically Pumped Lasing in Solution-Processed Mixed Halide Perovskite Semiconductors. Journal of Physical Chemistry Letters, 2014, 5, 1421-1426.	4.6	1,490
2	Optical properties and limiting photocurrent of thin-film perovskite solar cells. Energy and Environmental Science, 2015, 8, 602-609.	30.8	417
3	Dye-Sensitized Solar Cell Based on a Three-Dimensional Photonic Crystal. Nano Letters, 2010, 10, 2303-2309.	9.1	310
4	Capturing the Sun: A Review of the Challenges and Perspectives of Perovskite Solar Cells. Advanced Energy Materials, 2017, 7, 1700264.	19.5	295
5	Formation of Nanopatterned Polymer Blends in Photovoltaic Devices. Nano Letters, 2010, 10, 1302-1307.	9.1	248
6	Charge Separation at Self-Assembled Nanostructured Bulk Interface in Block Copolymers. Angewandte Chemie - International Edition, 2006, 45, 3364-3368.	13.8	205
7	Atmospheric Influence upon Crystallization and Electronic Disorder and Its Impact on the Photophysical Properties of Organicâ€“Inorganic Perovskite Solar Cells. ACS Nano, 2015, 9, 2311-2320.	14.6	173
8	Crystallization-Induced 10-nm Structure Formation in P3HT/PCBM Blends. Macromolecules, 2013, 46, 4002-4013.	4.8	136
9	Control of Solidâ€State Dyeâ€Sensitized Solar Cell Performance by Blockâ€Copolymerâ€Directed TiO₂ Synthesis. Advanced Functional Materials, 2010, 20, 1787-1796.	14.9	131
10	Block copolymer directed synthesis of mesoporous TiO2for dye-sensitized solar cells. Soft Matter, 2009, 5, 134-139.	2.7	108
11	n -type organic field effect transistors from perylene bisimide block copolymers and homopolymers. Applied Physics Letters, 2008, 92, .	3.3	102
12	Improved conductivity in dye-sensitised solar cells through block-copolymer confined TiO₂crystallisation. Energy and Environmental Science, 2011, 4, 225-233.	30.8	88
13	Influence of molecular weight on the solar cell performance of double-crystalline donor-acceptor block copolymers. Applied Physics Letters, 2009, 95, 183308.	3.3	81
14	Formation of Wellâ€Ordered Heterojunctions in Polymer:PCBM Photovoltaic Devices. Advanced Functional Materials, 2011, 21, 139-146.	14.9	78
15	Controlled solvent vapour annealing for polymer electronics. Soft Matter, 2009, 5, 4206.	2.7	58
16	Electronâ€Conducting Block Copolymers: Morphological, Optical, and Electronic Properties. Advanced Materials, 2008, 20, 2523-2527.	21.0	42
17	Monolithic route to efficient dye-sensitized solar cells employing diblock copolymers for mesoporous TiO2. Journal of Materials Chemistry, 2010, 20, 1261-1268.	6.7	40
18	Reversible Laserâ€Induced Amplified Spontaneous Emission from Coexisting Tetragonal and Orthorhombic Phases in Hybrid Lead Halide Perovskites. Advanced Optical Materials, 2016, 4, 917-928.	7.3	40

#	Article	IF	Citations
19	Structure formation in P3HT/F8TBT blends. Energy and Environmental Science, 2014, 7, 1725-1736.	30.8	36
20	Does Electron Delocalization Influence Charge Separation at Donorâ€“Acceptor Interfaces in Organic Photovoltaic Cells?. Journal of Physical Chemistry C, 2018, 122, 21792-21802.	3.1	33
21	Organic field effect transistors from triarylamine side-chain polymers. Applied Physics Letters, 2010, 96, 073503.	3.3	28
22	Hierarchical Orientation of Crystallinity by Block-Copolymer Patterning and Alignment in an Electric Field. Chemistry of Materials, 2013, 25, 1063-1070.	6.7	27
23	Determination of charge carrier mobility of hole transporting polytriarylamine-based diodes. Thin Solid Films, 2010, 518, 3351-3354.	1.8	24
24	Amphiphilic iron(<scp>ii</scp>) spin crossover coordination polymers: crystal structures and phase transition properties. Journal of Materials Chemistry C, 2019, 7, 1151-1163.	5.5	21
25	Efficiency limitations in a low band-gap diketopyrrolopyrrole-based polymer solar cell. Physical Chemistry Chemical Physics, 2014, 16, 6743-6752.	2.8	17
26	Influence of Electron Extracting Interface Layers in Organic Bulkâ€Heterojunction Solar Cells. Advanced Materials Interfaces, 2016, 3, 1500422.	3.7	8
27	Enhanced Nanoscale Imaging of Polymer Blends by Temperatureâ€Controlled Selective Dissolution. Small, 2012, 8, 237-240.	10.0	5
28	Perovskite Solar Cells: Capturing the Sun: A Review of the Challenges and Perspectives of Perovskite Solar Cells (Adv. Energy Mater. 16/2017). Advanced Energy Materials, 2017, 7, .	19.5	3