Jon-Paul Sun

List of Publications by Year
in descending order

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29 papers	3,914 citations	331670 21 h-index	477307 29 g-index
31 all docs	31 docs citations	31 times ranked	7164 citing authors

#	Article	IF	Citations
1	Structural, Optical, and Electronic Properties of Two Quaternary Chalcogenide Semiconductors: Ag₂SrSiS₄ and Ag₂SrGeS₄. Inorganic Chemistry, 2021, 60, 12206-12217.	4.0	8
2	High-temperature decomposition of Cu₂BaSnS₄ with Sn loss reveals newly identified compound Cu₂Ba₃Sn₂S₈. Journal of Materials Chemistry A, 2020, 8, 11346-11353.	10.3	8
3	Structural Tolerance Factor Approach to Defect-Resistant I₂-II-IV-X₄ Semiconductor Design. Chemistry of Materials, 2020, 32, 1636-1649.	6.7	25
4	Dual-source evaporation of silver bismuth iodide films for planar junction solar cells. Journal of Materials Chemistry A, 2019, 7, 2095-2105.	10.3	63
5	Phase and film formation pathway for vacuum-deposited Cu2BaSn(S,Se)4 absorber layers. Physical Review Materials, 2019, 3, .	2.4	10
6	A Versatile Thin-Film Deposition Method for Multidimensional Semiconducting Bismuth Halides. Chemistry of Materials, 2018, 30, 3538-3544.	6.7	52
7	First-principles calculations and experimental studies of XYZ₂ thermoelectric compounds: detailed analysis of van der Waals interactions. Journal of Materials Chemistry A, 2018, 6, 19502-19519.	10.3	20
8	Band Gap Tailoring and Structure-Composition Relationship within the Alloyed Semiconductor Cu₂BaGe_{1â€“x}Sn_xSe₄. Chemistry of Materials, 2018, 30, 6566-6574.	6.7	25
9	N-Annulated perylene diimide dimers: acetylene linkers as a strategy for controlling structural conformation and the impact on physical, electronic, optical and photovoltaic properties. Journal of Materials Chemistry C, 2017, 5, 2074-2083.	5.5	68
10	Fluorinated Thiophene-Based Synthons: Polymerization of 1,4-Dialkoxybenzene and Fluorinated Dithieno-2,1,3-benzothiadiazole by Direct Heteroarylation. Macromolecules, 2017, 50, 4658-4667.	4.8	28
11	Perylene diimide based all small-molecule organic solar cells: Impact of branched-alkyl side chains on solubility, photophysics, self-assembly, and photovoltaic parameters. Organic Electronics, 2016, 35, 151-157.	2.6	50
12	The Effects of a Ternary Electrolyte Additive System on the Electrode/Electrolyte Interfaces in High Voltage Li-Ion Cells. Journal of the Electrochemical Society, 2016, 163, A1001-A1009.	2.9	42
13	Synthesis, Self-Assembly, and Solar Cell Performance of N-Annulated Perylene Diimide Non-Fullerene Acceptors. Chemistry of Materials, 2016, 28, 7098-7109.	6.7	211
14	Thin-Film Deposition and Characterization of a Sn-Deficient Perovskite Derivative Cs₂SnI₆. Chemistry of Materials, 2016, 28, 2315-2322.	6.7	329
15	The Silicon:Colloidal Quantum Dot Heterojunction. Advanced Materials, 2015, 27, 7445-7450.	21.0	55
16	The influence of molecular geometry on photophysical properties and self-assembly of phthalimide end-capped thiophene-based organic molecules. Materials Letters, 2015, 157, 252-255.	2.6	2
17	Unusual loss of electron mobility upon furan for thiophene substitution in a molecular semiconductor. Organic Electronics, 2015, 18, 118-125.	2.6	21
18	Phthalimide-based Ï€-conjugated small molecules with tailored electronic energy levels for use as acceptors in organic solar cells. Journal of Materials Chemistry C, 2015, 3, 8904-8915.	5.5	64

#	Article	IF	Citations
19	Thin-Film Preparation and Characterization of Cs₃Sb₂I₉: A Lead-Free Layered Perovskite Semiconductor. Chemistry of Materials, 2015, 27, 5622-5632.	6.7	653
20	Perovskiteâ€“fullerene hybrid materials suppress hysteresis in planar diodes. Nature Communications, 2015, 6, 7081.	12.8	948
21	The structural evolution of an isoindigo-based non-fullerene acceptor for use in organic photovoltaics. RSC Advances, 2015, 5, 80098-80109.	3.6	42
22	An Electronâ€Deficient Small Molecule Accessible from Sustainable Synthesis and Building Blocks for Use as a Fullerene Alternative in Organic Photovoltaics. ChemPhysChem, 2015, 16, 1190-1202.	2.1	43
23	Effect of Sulfate Electrolyte Additives on LiNi_{1/3}Mn_{1/3}Co_{1/3}O₂/Graphite Pouch Cell Lifetime: Correlation between XPS Surface Studies and Electrochemical Test Results. Journal of Physical Chemistry C, 2014, 118, 29608-29622.	3.1	134
24	High open circuit voltage organic solar cells based upon fullerene free bulk heterojunction active layers. Canadian Journal of Chemistry, 2014, 92, 932-939.	1.1	5
25	Recent advances of non-fullerene, small molecular acceptors for solution processed bulk heterojunction solar cells. Journal of Materials Chemistry A, 2014, 2, 1201-1213.	10.3	361
26	Phthalimideâ€“thiophene-based conjugated organic small molecules with high electron mobility. Journal of Materials Chemistry C, 2014, 2, 2612-2621.	5.5	26
27	Electron deficient diketopyrrolopyrrole dyes for organic electronics: synthesis by direct arylation, optoelectronic characterization, and charge carrier mobility. Journal of Materials Chemistry A, 2014, 2, 4198-4207.	10.3	83
28	Air-stable n-type colloidal quantum dot solids. Nature Materials, 2014, 13, 822-828.	27.5	529
29	Optimizing the photovoltage of polymer/zinc oxide hybrid solar cells by calcium doping. Journal of Applied Physics, 2012, 112, 044511.	2.5	9