

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	Perovskite-“fullerene hybrid materials suppress hysteresis in planar diodes. Nature Communications, 2015, 6, 7081.	12.8	948
2	Thin-Film Preparation and Characterization of Cs ₃ Sb ₂ I ₉ : A Lead-Free Layered Perovskite Semiconductor. Chemistry of Materials, 2015, 27, 5622-5632.	6.7	653
3	Air-stable n-type colloidal quantum dot solids. Nature Materials, 2014, 13, 822-828.	27.5	529
4	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
5	Thin-Film Deposition and Characterization of a Sn-Deficient Perovskite Derivative Cs ₂ SnI ₆ . Chemistry of Materials, 2016, 28, 2315-2322.	6.7	329
6	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
7	Effect of Sulfate Electrolyte Additives on LiNi _{1/3} Mn _{1/3} Co _{1/3} O ₂ /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
8	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
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	Phthalimide-based ĩ-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
11	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
12	The Silicon:Colloidal Quantum Dot Heterojunction. Advanced Materials, 2015, 27, 7445-7450.	21.0	55
13	A Versatile Thin-Film Deposition Method for Multidimensional Semiconducting Bismuth Halides. Chemistry of Materials, 2018, 30, 3538-3544.	6.7	52
14	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
15	An Electron-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
16	The structural evolution of an isoindigo-based non-fullerene acceptor for use in organic photovoltaics. RSC Advances, 2015, 5, 80098-80109.	3.6	42
17	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
18	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

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19	Phthalimide- <i>thiophene</i> -based conjugated organic small molecules with high electron mobility. <i>Journal of Materials Chemistry C</i> , 2014, 2, 2612-2621.	5.5	26
20	Band Gap Tailoring and Structure-Composition Relationship within the Alloyed Semiconductor $\text{Cu}_2\text{BaGe}_3\text{Sn}_2\text{Se}_4$. <i>Chemistry of Materials</i> , 2018, 30, 6566-6574.	6.7	25
21	Structural Tolerance Factor Approach to Defect-Resistant $\text{I}_2\text{-II-IV-X}_4$ Semiconductor Design. <i>Chemistry of Materials</i> , 2020, 32, 1636-1649.	6.7	25
22	Unusual loss of electron mobility upon furan for thiophene substitution in a molecular semiconductor. <i>Organic Electronics</i> , 2015, 18, 118-125.	2.6	21
23	First-principles calculations and experimental studies of XYZ_2 thermoelectric compounds: detailed analysis of van der Waals interactions. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19502-19519.	10.3	20
24	Phase and film formation pathway for vacuum-deposited $\text{Cu}_2\text{BaSn(S,Se)}_4$ absorber layers. <i>Physical Review Materials</i> , 2019, 3, .	2.4	10
25	Optimizing the photovoltage of polymer/zinc oxide hybrid solar cells by calcium doping. <i>Journal of Applied Physics</i> , 2012, 112, 044511.	2.5	9
26	High-temperature decomposition of $\text{Cu}_2\text{BaSnS}_4$ with Sn loss reveals newly identified compound $\text{Cu}_2\text{Ba}_3\text{Sn}_2\text{S}_8$. <i>Journal of Materials Chemistry A</i> , 2020, 8, 11346-11353.	10.3	8
27	Structural, Optical, and Electronic Properties of Two Quaternary Chalcogenide Semiconductors: $\text{Ag}_2\text{SrSiS}_4$ and $\text{Ag}_2\text{SrGeS}_4$. <i>Inorganic Chemistry</i> , 2021, 60, 12206-12217.	4.0	8
28	High open circuit voltage organic solar cells based upon fullerene free bulk heterojunction active layers. <i>Canadian Journal of Chemistry</i> , 2014, 92, 932-939.	1.1	5
29	The influence of molecular geometry on photophysical properties and self-assembly of phthalimide end-capped thiophene-based organic molecules. <i>Materials Letters</i> , 2015, 157, 252-255.	2.6	2