Katelyn P Goetz

List of Publications by Year
in descending order

33	1,720	516710 16	434195 31
papers	citations	h-index	g-index

33	33	33	2617
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Charge-transfer complexes: new perspectives on an old class of compounds. Journal of Materials Chemistry C, 2014, 2, 3065-3076.	5.5	374
2	A general approach to high-efficiency perovskite solar cells by any antisolvent. Nature Communications, 2021, 12, 1878.	12.8	209
3	Charge Transport Properties of Peryleneâ€“TCNQ Crystals: The Effect of Stoichiometry. Journal of Physical Chemistry C, 2014, 118, 24688-24696.	3.1	118
4	Indacenodibenzothiophenes: synthesis, optoelectronic properties and materials applications of molecules with strong antiaromatic character. Chemical Science, 2016, 7, 5547-5558.	7.4	103
5	Shining Light on the Photoluminescence Properties of Metal Halide Perovskites. Advanced Functional Materials, 2020, 30, 1910004.	14.9	101
6	Polymorphism in the 1:1 Chargeâ€Transfer Complex DBTTFâ€“TCNQ and Its Effects on Optical and Electronic Properties. Advanced Electronic Materials, 2016, 2, 1600203.	5.1	83
7	Isomerically Pure syn-Anthradithiophenes: Synthesis, Properties, and FET Performance. Organic Letters, 2012, 14, 3660-3663.	4.6	81
8	Quantitative analysis of the density of trap states at the semiconductor-dielectric interface in organic field-effect transistors. Applied Physics Letters, 2015, 107, .	3.3	75
9	Temperature-Mediated Polymorphism in Molecular Crystals: The Impact on Crystal Packing and Charge Transport. Chemistry of Materials, 2015, 27, 112-118.	6.7	72
10	Effect of Acene Length on Electronic Properties in 5â€, 6â€, and 7â€Ringed Heteroacenes. Advanced Materials, 2011, 23, 3698-3703.	21.0	65
11	Solvent-Dependent Stoichiometry in Peryleneâ€“7,7,8,8-Tetracyanoquinodimethane Charge Transfer Compound Single Crystals. Crystal Growth and Design, 2014, 14, 6376-6382.	3.0	58
12	Effect of density of surface defects on photoluminescence properties in MAPbI₃ perovskite films. Journal of Materials Chemistry C, 2019, 7, 5285-5292.	5.5	57
13	Sustainability in Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 1-17.	8.0	53
14	Freezing-in orientational disorder induces crossover from thermally-activated to temperature-independent transport in organic semiconductors. Nature Communications, 2014, 5, 5642.	12.8	50
15	Goldâ€Catalyzed Facile Synthesis and Crystal Structures of Benzeneâ€/Naphthaleneâ€Based Bispentalenes as Organic Semiconductors. Chemistry - A European Journal, 2019, 25, 216-220.	3.3	31
16	AFM-IR and IR-SNOM for the Characterization of Small Molecule Organic Semiconductors. Journal of Physical Chemistry C, 2020, 124, 5331-5344.	3.1	29
17	Effect of Precursor Stoichiometry on the Performance and Stability of MAPbBr 3 Photovoltaic Devices. Energy Technology, 2020, 8, 1900737.	3.8	16
18	Electronic properties and structure of single crystal perylene. Organic Electronics, 2018, 61, 157-163.	2.6	15

#	Article	IF	Citations
19	Field-dependent charge transport in organic thin-film transistors: Impact of device structure and organic semiconductor microstructure. Applied Physics Letters, 2019, 115, .	3.3	15
20	Vibrational properties of organic donor-acceptor molecular crystals: Anthracene-pyromellitic-dianhydride (PMDA) as a case study. Journal of Chemical Physics, 2015, 143, 224503.	3.0	14
21	The effect of side-chain length on the microstructure and processing window of zone-cast naphthalene-based bispentalenes. Journal of Materials Chemistry C, 2019, 7, 13493-13501.	5.5	14
22	The Challenge of Making the Same Device Twice in Perovskite Photovoltaics. ACS Energy Letters, 2022, 7, 1750-1757.	17.4	14
23	Effect of Antisolvent Application Rate on Film Formation and Photovoltaic Performance of Methylammoniumâ€Free Perovskite Solar Cells. Advanced Energy and Sustainability Research, 2021, 2, 2100061.	5.8	13
24	Conductivity measurements of organic materials using field-effect transistors (FETs) and space-charge-limited current (SCLC) techniques. , 2019, , 453-487.		12
25	Low-temperature phase transitions in a soluble oligoacene and their effect on device performance and stability. Applied Physics Letters, 2014, 105, 083305.	3.3	10
26	Organic single crystals of charge-transfer complexes: model systems for the study of donor/acceptor interactions. Materials Horizons, 2022, 9, 271-280.	12.2	10
27	Electron-phonon coupling in anthracene-pyromellitic dianhydride. Journal of Chemical Physics, 2017, 146, 214705.	3.0	9
28	Flip chip lamination to electrically contact organic single crystals on flexible substrates. Applied Physics Letters, 2011, 98, 163302.	3.3	7
29	Preserving the stoichiometry of triple-cation perovskites by carrier-gas-free antisolvent spraying. Journal of Materials Chemistry A, 2022, 10, 19743-19749.	10.3	6
30	The 1:1 charge-transfer complex dibenzotetrathiafulvaleneâ€“pyromellitic dianhydride (DBTTFâ€“PMDA). Acta Crystallographica Section E: Structure Reports Online, 2014, 70, o844-o845.	0.2	2
31	Reply to Comment on Polymorphism in the 1:1 Chargeâ€Transfer Complex DBTTFâ€TCNQ and Its Effects on Optical and Electronic Properties. Advanced Electronic Materials, 2017, 3, 1600521.	5.1	2
32	Temperature-dependent vibrational spectroscopy to study order-disorder transitions in charge transfer complexes. AIP Advances, 2018, 8, 025117.	1.3	2
33	Polymorphism in the organic charge-transfer complex dibenzotetrathiafulvalene-7,7,8,8-tetracyanoquinodimethane (DBTTF-TCNQ) and its effect on optical and electrical properties (Presentation Recording). Proceedings of SPIE, 2015, , .	0.8	0