

Nicholas Hestand

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

2,391
citations

566801

15
h-index

752256

20
g-index

21
all docs

21
docs citations

21
times ranked

3594
citing authors

#	ARTICLE	IF	CITATIONS
1	Correction to "Confirmation of the Origins of Panchromatic Spectra in Squaraine Thin Films Targeted for Organic Photovoltaic Devices"; Journal of Physical Chemistry C, 2022, 126, 11436-11437.	1.5	0
2	IR Spectroscopy Can Reveal the Mechanism of K ⁺ Transport in Ion Channels. Biophysical Journal, 2020, 118, 254-261.	0.2	17
3	Modeling nonlocal electron-phonon coupling in organic crystals using interpolative maps: The spectroscopy of crystalline pentacene and 7,8,15,16-tetraazaterrylene. Journal of Chemical Physics, 2020, 153, 124113.	1.2	7
4	OH-Stretch Raman Multivariate Curve Resolution Spectroscopy of HOD/H ₂ O Mixtures. Journal of Physical Chemistry B, 2019, 123, 5139-5146.	1.2	10
5	Mid-IR spectroscopy of supercritical water: From dilute gas to dense fluid. Journal of Chemical Physics, 2019, 150, 054505.	1.2	11
6	Robust singlet fission in pentacene thin films with tuned charge transfer interactions. Nature Communications, 2018, 9, 954.	5.8	76
7	Expanded Theory of H- and J-Molecular Aggregates: The Effects of Vibronic Coupling and Intermolecular Charge Transfer. Chemical Reviews, 2018, 118, 7069-7163.	23.0	1,033
8	Perspective: Crossing the Widom line in no man's land: Experiments, simulations, and the location of the liquid-liquid critical point in supercooled water. Journal of Chemical Physics, 2018, 149, 140901.	1.2	69
9	Communication: Diffusion constant in supercooled water as the Widom line is crossed in no man's land. Journal of Chemical Physics, 2018, 148, 191102.	1.2	13
10	Molecular Aggregate Photophysics beyond the Kasha Model: Novel Design Principles for Organic Materials. Accounts of Chemical Research, 2017, 50, 341-350.	7.6	441
11	Enhanced Davydov Splitting in Crystals of a Perylene Diimide Derivative. Journal of Physical Chemistry Letters, 2017, 8, 1118-1123.	2.1	37
12	Extended-Charge-Transfer Excitons in Crystalline Supramolecular Photocatalytic Scaffolds. Journal of the American Chemical Society, 2016, 138, 11762-11774.	6.6	91
13	Determining the spatial coherence of excitons from the photoluminescence spectrum in charge-transfer J-aggregates. Chemical Physics, 2016, 481, 262-271.	0.9	14
14	Phase separation, crystallinity and monomer-aggregate population control in solution processed small molecule solar cells. Solar Energy Materials and Solar Cells, 2016, 157, 366-376.	3.0	22
15	Exciton mobility control through packing modifications in molecular crystals. Physical Review B, 2015, 91, .	1.1	51
16	Interference between Coulombic and CT-mediated couplings in molecular aggregates: H- to J-aggregate transformation in perylene-based π -stacks. Journal of Chemical Physics, 2015, 143, 244707.	1.2	137
17	Confirmation of the Origins of Panchromatic Spectra in Squaraine Thin Films Targeted for Organic Photovoltaic Devices. Journal of Physical Chemistry C, 2015, 119, 18964-18974.	1.5	59
18	Polarized Absorption in Crystalline Pentacene: Theory vs Experiment. Journal of Physical Chemistry C, 2015, 119, 22137-22147.	1.5	98

#	ARTICLE	IF	CITATIONS
19	The Effect of Chain Bending on the Photophysical Properties of Conjugated Polymers. Journal of Physical Chemistry B, 2014, 118, 8352-8363.	1.2	51
20	Two-dimensional spatial coherence of excitons in semicrystalline polymeric semiconductors: Effect of molecular weight. Physical Review B, 2013, 88, .	1.1	96
21	The red-phase of poly[2-methoxy-5-(2-ethylhexyloxy)-1,4-phenylenevinylene] (MEH-PPV): A disordered HJ-aggregate. Journal of Chemical Physics, 2013, 139, 114903.	1.2	58