

# Nicholas Hestand

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

2,391  
citations

567144

15  
h-index

752573

20  
g-index

21  
all docs

21  
docs citations

21  
times ranked

3594  
citing authors

#	ARTICLE	IF	CITATIONS
1	Expanded Theory of H- and J-Molecular Aggregates: The Effects of Vibronic Coupling and Intermolecular Charge Transfer. <i>Chemical Reviews</i> , 2018, 118, 7069-7163.	23.0	1,033
2	Molecular Aggregate Photophysics beyond the Kasha Model: Novel Design Principles for Organic Materials. <i>Accounts of Chemical Research</i> , 2017, 50, 341-350.	7.6	441
3	Interference between Coulombic and CT-mediated couplings in molecular aggregates: H- to J-aggregate transformation in perylene-based $\pi$ -stacks. <i>Journal of Chemical Physics</i> , 2015, 143, 244707.	1.2	137
4	Polarized Absorption in Crystalline Pentacene: Theory vs Experiment. <i>Journal of Physical Chemistry C</i> , 2015, 119, 22137-22147.	1.5	98
5	Two-dimensional spatial coherence of excitons in semicrystalline polymeric semiconductors: Effect of molecular weight. <i>Physical Review B</i> , 2013, 88, .	1.1	96
6	Extended-Charge-Transfer Excitons in Crystalline Supramolecular Photocatalytic Scaffolds. <i>Journal of the American Chemical Society</i> , 2016, 138, 11762-11774.	6.6	91
7	Robust singlet fission in pentacene thin films with tuned charge transfer interactions. <i>Nature Communications</i> , 2018, 9, 954.	5.8	76
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. <i>Journal of Chemical Physics</i> , 2018, 149, 140901.	1.2	69
9	Confirmation of the Origins of Panchromatic Spectra in Squaraine Thin Films Targeted for Organic Photovoltaic Devices. <i>Journal of Physical Chemistry C</i> , 2015, 119, 18964-18974.	1.5	59
10	The red-phase of poly[2-methoxy-5-(2-ethylhexyloxy)-1,4-phenylenevinylene] (MEH-PPV): A disordered HJ-aggregate. <i>Journal of Chemical Physics</i> , 2013, 139, 114903.	1.2	58
11	The Effect of Chain Bending on the Photophysical Properties of Conjugated Polymers. <i>Journal of Physical Chemistry B</i> , 2014, 118, 8352-8363.	1.2	51
12	Exciton mobility control through $\pi$ -stacking modifications in molecular crystals. <i>Physical Review B</i> , 2015, 91, .	1.1	51
13	Enhanced Davydov Splitting in Crystals of a Perylene Diimide Derivative. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1118-1123.	2.1	37
14	Phase separation, crystallinity and monomer-aggregate population control in solution processed small molecule solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2016, 157, 366-376.	3.0	22
15	IR Spectroscopy Can Reveal the Mechanism of K <sup>+</sup> Transport in Ion Channels. <i>Biophysical Journal</i> , 2020, 118, 254-261.	0.2	17
16	Determining the spatial coherence of excitons from the photoluminescence spectrum in charge-transfer J-aggregates. <i>Chemical Physics</i> , 2016, 481, 262-271.	0.9	14
17	Communication: Diffusion constant in supercooled water as the Widom line is crossed in no man's land. <i>Journal of Chemical Physics</i> , 2018, 148, 191102.	1.2	13
18	Mid-IR spectroscopy of supercritical water: From dilute gas to dense fluid. <i>Journal of Chemical Physics</i> , 2019, 150, 054505.	1.2	11

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19	OH-Stretch Raman Multivariate Curve Resolution Spectroscopy of HOD/H <sub>2</sub> O Mixtures. <i>Journal of Physical Chemistry B</i> , 2019, 123, 5139-5146.	1.2	10
20	Modeling nonlocal electron-phonon coupling in organic crystals using interpolative maps: The spectroscopy of crystalline pentacene and 7,8,15,16-tetraazaterrylene. <i>Journal of Chemical Physics</i> , 2020, 153, 124113.	1.2	7
21	Correction to "Confirmation of the Origins of Panchromatic Spectra in Squaraine Thin Films Targeted for Organic Photovoltaic Devices". <i>Journal of Physical Chemistry C</i> , 2022, 126, 11436-11437.	1.5	0