Joel D Eaves

List of Publications by Year
in descending order

25 papers	753 citations	687363 13 h-index	610901 24 g-index
25 all docs	25 docs citations	25 times ranked	1123 citing authors

#	Article	IF	Citations
1	Theory of coherent resonance energy transfer. Journal of Chemical Physics, 2008, 129, 101104.	3.0	238
2	Observation of trapped-hole diffusion on the surfaces of CdS nanorods. Nature Chemistry, 2016, 8, 1061-1066.	13.6	108
3	The Tunable Hydrophobic Effect on Electrically Doped Graphene. Journal of Physical Chemistry B, 2014, 118, 530-536.	2.6	46
4	Competition between electron transfer, trapping, and recombination in CdS nanorodâ€“hydrogenase complexes. Physical Chemistry Chemical Physics, 2015, 17, 5538-5542.	2.8	45
5	Singlet fission for quantum information and quantum computing: the parallel JDE model. Scientific Reports, 2020, 10, 18480.	3.3	42
6	Collective aspects of singlet fission in molecular crystals. Journal of Chemical Physics, 2015, 143, 044118.	3.0	36
7	Atomistic Hydrodynamics and the Dynamical Hydrophobic Effect in Porous Graphene. Journal of Physical Chemistry Letters, 2016, 7, 1907-1912.	4.6	25
8	On the Nature of Trapped-Hole States in CdS Nanocrystals and the Mechanism of Their Diffusion. Journal of Physical Chemistry Letters, 2018, 9, 3532-3537.	4.6	24
9	Quantum Efficiency of Charge Transfer Competing against Nonexponential Processes: The Case of Electron Transfer from CdS Nanorods to Hydrogenase. Journal of Physical Chemistry C, 2019, 123, 886-896.	3.1	24
10	Nanoscale Probing of Dynamics in Local Molecular Environments. Journal of Physical Chemistry Letters, 2015, 6, 4616-4621.	4.6	22
11	Temperature-Dependent Transient Absorption Spectroscopy Elucidates Trapped-Hole Dynamics in CdS and CdSe Nanorods. Journal of Physical Chemistry Letters, 2019, 10, 2782-2787.	4.6	19
12	DNA Motion Capture Reveals the Mechanical Properties of DNA at the Mesoscale. Biophysical Journal, 2015, 108, 2532-2540.	0.5	18
13	Trapped-Hole Diffusion in Photoexcited CdSe Nanorods. Journal of Physical Chemistry C, 2018, 122, 16974-16982.	3.1	16
14	Triplet-pair spin signatures from macroscopically aligned heteroacenes in an oriented single crystal. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	14
15	The Dynamics of Water in Porous Two-Dimensional Crystals. Journal of Physical Chemistry B, 2017, 121, 189-207.	2.6	12
16	Tetracene Aggregation on Polar and Nonpolar Surfaces: Implications for Singlet Fission. Journal of Physical Chemistry Letters, 2015, 6, 1209-1215.	4.6	11
17	Nanocrystalline Iron Monosulfides Near Stoichiometry. Scientific Reports, 2018, 8, 6591.	3.3	11
18	Flocking with minimal cooperativity: The panic model. Physical Review E, 2014, 89, 012718.	2.1	9

#	Article	IF	Citations
19	Reentrance in an active glass mixture. Soft Matter, 2014, 10, 7495-7501.	2.7	9
20	Carrier Transport in Heterojunction Nanocrystals Under Strain. Journal of Physical Chemistry Letters, 2012, 3, 791-795.	4.6	8
21	Multidimensional Nano-Imaging of Structure, Coupling, and Disorder in Molecular Materials. Nano Letters, 2021, 21, 6463-6470.	9.1	5
22	Clock transitions guard against spin decoherence in singlet fission. Journal of Chemical Physics, 2021, 155, 194109.	3.0	5
23	The Motion of Trapped Holes on Nanocrystal Surfaces. Journal of Physical Chemistry Letters, 2020, 11, 9876-9885.	4.6	4
24	Surface-Trapped Hole Diffusion in CdS and CdSe: The Superexchange Mechanism. Journal of Physical Chemistry C, 2020, 124, 28244-28251.	3.1	2
25	Linear Response Theory for Water Transport Through Dry Nanopores. Journal of Physical Chemistry A, 2017, 121, 5377-5382.	2.5	0