James K Utterback

List of Publications by Year
in descending order

16	571	759233 12	940533 16
papers	citations	h-index	g-index

16	16	16	796
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Conformation of self-assembled porphyrin dimers in liposome vesicles by phase-modulation 2D fluorescence spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16521-16526.	7.1	112
2	Observation of trapped-hole diffusion on the surfaces of CdS nanorods. Nature Chemistry, 2016, 8, 1061-1066.	13.6	108
3	Self-assembly of nanocrystals into strongly electronically coupled all-inorganic supercrystals. Science, 2022, 375, 1422-1426.	12.6	57
4	Role of Surface-Capping Ligands in Photoexcited Electron Transfer between CdS Nanorods and [FeFe] Hydrogenase and the Subsequent H₂ Generation. Journal of Physical Chemistry C, 2018, 122, 741-750.	3.1	53
5	Competition between electron transfer, trapping, and recombination in CdS nanorodâ€“hydrogenase complexes. Physical Chemistry Chemical Physics, 2015, 17, 5538-5542.	2.8	45
6	Relationships between Exciton Dissociation and Slow Recombination within ZnSe/CdS and CdSe/CdS Dot-in-Rod Heterostructures. Nano Letters, 2017, 17, 3764-3774.	9.1	43
7	Electron Transfer from Semiconductor Nanocrystals to Redox Enzymes. Annual Review of Physical Chemistry, 2020, 71, 335-359.	10.8	27
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	Nonequilibrium Thermodynamics of Colloidal Gold Nanocrystals Monitored by Ultrafast Electron Diffraction and Optical Scattering Microscopy. ACS Nano, 2020, 14, 4792-4804.	14.6	20
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	Trapped-Hole Diffusion in Photoexcited CdSe Nanorods. Journal of Physical Chemistry C, 2018, 122, 16974-16982.	3.1	16
13	Nanoscale Disorder Generates Subdiffusive Heat Transport in Self-Assembled Nanocrystal Films. Nano Letters, 2021, 21, 3540-3547.	9.1	7
14	Nanocrystal-Based Active Photonics Device through Spatial Design of Light-Matter Coupling. ACS Photonics, 2022, 9, 2528-2535.	6.6	7
15	Temperature dependence of pressure broadening and shifts of acetylene at 1550â€‰nm by N₂. Molecular Physics, 2011, 109, 2199-2208.	1.7	5
16	The Motion of Trapped Holes on Nanocrystal Surfaces. Journal of Physical Chemistry Letters, 2020, 11, 9876-9885.	4.6	4