

Nandan Ghorai

List of Publications by Year in descending order

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papers

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614
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical Interface Damping in Nonstoichiometric Semiconductor Plasmonic Nanocrystals: An Effect of the Surrounding Environment. <i>Langmuir</i> , 2022, 38, 5339-5350.	3.5	3
2	Plasmon Mediated Electron Transfer and Temperature Dependent Electron-Phonon Scattering in Gold Nanoparticles Embedded in Dielectric Films. <i>ChemPhysChem</i> , 2022, 23, .	2.1	5
3	Concurrent Energy- and Electron-Transfer Dynamics in Photoexcited Mn-Doped CsPbBr ₃ Perovskite Nanoplatelet Architecture. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 302-309.	4.6	27
4	Long-range light-modulated charge transport across the molecular heterostructure doped protein biopolymers. <i>Chemical Science</i> , 2021, 12, 8731-8739.	7.4	10
5	Temperature-Dependent Ultrafast Charge Carrier Dynamics in Amorphous and Crystalline Sb ₂ Se ₃ Thin Films. <i>Journal of Physical Chemistry C</i> , 2021, 125, 5197-5206.	3.1	16
6	CdS@CNT@CoPi Heterostructures for Simultaneous Exciton Separation: Ultrafast and Photoelectrochemical Studies. <i>Journal of Physical Chemistry C</i> , 2021, 125, 8684-8695.	3.1	8
7	Ultrafast Plasmon Dynamics in Near-Infrared Active Non-stoichiometric Cu _{2-x} S Nanocrystals and Effect of Chemical Interface Damping. <i>Journal of Physical Chemistry C</i> , 2021, 125, 11468-11477.	3.1	9
8	Ultrafast Insights into High Energy (C and D) Excitons in Few Layer WS ₂ . <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6526-6534.	4.6	15
9	Effect of Surface Ligand on Chemical Interface Damping in Nonstoichiometric Cu _{2-x} S Semiconductor Nanocrystals: A Direct Correlation between Ultrafast Carrier Dynamics and Photoconductivity. <i>Journal of Physical Chemistry C</i> , 2021, 125, 23250-23258.	3.1	3
10	Ultrafast Hot Electron Transfer and Trap-State Mediated Charge Carrier Separation toward Enhanced Photocatalytic Activity in g-C ₃ N ₄ /ZnIn ₂ S ₄ Heterostructure. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11865-11872.	4.6	25
11	Impact of one step alloying on the carrier relaxation and charge separation dynamics of Cd _x Zn _{1-x} Se graded nanocrystals. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 388, 112131.	3.9	3
12	Effect of Confinement on the Exciton and Biexciton Dynamics in Perovskite 2D-Nanosheets and 3D-Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6344-6352.	4.6	32
13	Proton-Coupled Electron Transfer for Photoinduced Generation of Two-Electron Reduced Species of Quinone. <i>Journal of Physical Chemistry B</i> , 2020, 124, 11165-11174.	2.6	3
14	Temperature-Dependent Trap-Assisted Ultrafast Carrier Dynamics in Amorphous and Crystalline $\ln_{2-x}\text{Se}_3$ Thin Films. <i>Physical Review Applied</i> , 2020, 14, .	3.8	8
15	Probing Ultrafast Charge Separation in CZTS/CdS Heterojunctions through Femtosecond Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2020, 124, 19476-19483.	3.1	25
16	Polaron-Mediated Slow Carrier Cooling in a Type-1 3D/0D CsPbBr ₃ @Cs ₄ PbBr ₆ Core-Shell Perovskite System. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5302-5311.	4.6	66
17	Efficient Photosensitizing Capabilities and Ultrafast Carrier Dynamics of Doped Carbon Dots. <i>Journal of the American Chemical Society</i> , 2019, 141, 15413-15422.	13.7	74
18	Ultrafast Plasmon Dynamics and Hole-Phonon Coupling in NIR Active Nonstoichiometric Semiconductor Plasmonic Cu _{2-x} S Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2019, 123, 28401-28410.	3.1	22

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19	Disentangling the Electron and Hole Dynamics in Janus CdSe/PbSe Nanocrystals through Variable Pump Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018, 122, 29075-29079.	3.1	4
20	Exploring the Carrier Dynamics in Zinc Oxide–Metal Halide-Based Perovskite Nanostructures: Toward Reduced Dielectric Loss and Improved Photocurrent. <i>Journal of Physical Chemistry C</i> , 2018, 122, 27273-27283.	3.1	19
21	Biexciton Dissociation Dynamics in Nanohybrid Au–CuInS ₂ Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28497-28505.	3.1	10
22	Cascading electron and hole transfer dynamics in a CdS/CdTe core–shell sensitized with bromo-pyrogallol red (Br-PGR): slow charge recombination in type II regime. <i>Nanoscale</i> , 2015, 7, 2698-2707.	5.6	51
23	Superior Grafting and State-of-the-Art Interfacial Electron Transfer Rates for Newly Designed Geminal Dicarboxylate Bound Ruthenium(II) and Osmium(II) Polypyridyl Dyes on TiO ₂ Nanosurface. <i>Journal of Physical Chemistry C</i> , 2014, 118, 3864-3877.	3.1	12
24	Newly Designed Resorcinolate Binding for Ru(II) and Re(I) Polypyridyl Complexes on Oleic Acid Capped TiO ₂ in Nonaqueous Solvent: Prolonged Charge Separation and Substantial Thermalized ³ MLCT Injection. <i>Journal of Physical Chemistry C</i> , 2013, 117, 3084-3092.	3.1	22
25	Synthesis, Steady-State, and Femtosecond Transient Absorption Studies of Resorcinol Bound Ruthenium(II)- and Osmium(II)-polypyridyl Complexes on Nano-TiO ₂ Surface in Water. <i>Inorganic Chemistry</i> , 2013, 52, 5366-5377.	4.0	15
26	Unraveling the Carrier Dynamics and Photocatalytic Pathway in Carbon Dots and Pollutants of Wastewater System. <i>Journal of Physical Chemistry C</i> , 0, , .	3.1	6