

# Nandan Ghorai

## List of Publications by Year in descending order

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26  
papers

493  
citations

686830

13  
h-index

713013

21  
g-index

26  
all docs

26  
docs citations

26  
times ranked

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.	1.6	3
2	Plasmon Mediated Electron Transfer and Temperature Dependent Electron-Phonon Scattering in Gold Nanoparticles Embedded in Dielectric Films. <i>ChemPhysChem</i> , 2022, 23, .	1.0	5
3	Concurrent Energy- and Electron-Transfer Dynamics in Photoexcited Mn-Doped CsPbBr <sub>3</sub> Perovskite Nanoplatelet Architecture. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 302-309.	2.1	27
4	Long-range light-modulated charge transport across the molecular heterostructure doped protein biopolymers. <i>Chemical Science</i> , 2021, 12, 8731-8739.	3.7	10
5	Temperature-Dependent Ultrafast Charge Carrier Dynamics in Amorphous and Crystalline Sb <sub>2</sub> Se <sub>3</sub> Thin Films. <i>Journal of Physical Chemistry C</i> , 2021, 125, 5197-5206.	1.5	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.	1.5	8
7	Ultrafast Plasmon Dynamics in Near-Infrared Active Non-stoichiometric Cu <sub>2-x</sub> S Nanocrystals and Effect of Chemical Interface Damping. <i>Journal of Physical Chemistry C</i> , 2021, 125, 11468-11477.	1.5	9
8	Ultrafast Insights into High Energy (C and D) Excitons in Few Layer WS <sub>2</sub> . <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6526-6534.	2.1	15
9	Effect of Surface Ligand on Chemical Interface Damping in Nonstoichiometric Cu <sub>2-x</sub> S Semiconductor Nanocrystals: A Direct Correlation between Ultrafast Carrier Dynamics and Photoconductivity. <i>Journal of Physical Chemistry C</i> , 2021, 125, 23250-23258.	1.5	3
10	Ultrafast Hot Electron Transfer and Trap-State Mediated Charge Carrier Separation toward Enhanced Photocatalytic Activity in g-C <sub>3</sub> N <sub>4</sub> /ZnIn <sub>2</sub> S <sub>4</sub> Heterostructure. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11865-11872.	2.1	25
11	Impact of one step alloying on the carrier relaxation and charge separation dynamics of Cd <sub>x</sub> Zn <sub>1-x</sub> Se graded nanocrystals. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 388, 112131.	2.0	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.	2.1	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.	1.2	3
14	Temperature-Dependent Trap-Assisted Ultrafast Carrier Dynamics in Amorphous and Crystalline $\ln_2\text{Se}_3$ Thin Films. <i>Physical Review Applied</i> , 2020, 14, .	1.5	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.	1.5	25
16	Polaron-Mediated Slow Carrier Cooling in a Type-1 3D/0D CsPbBr <sub>3</sub> @Cs <sub>4</sub> PbBr <sub>6</sub> Core-Shell Perovskite System. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5302-5311.	2.1	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.	6.6	74
18	Ultrafast Plasmon Dynamics and Hole-Phonon Coupling in NIR Active Nonstoichiometric Semiconductor Plasmonic Cu <sub>2-x</sub> S Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2019, 123, 28401-28410.	1.5	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.	1.5	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.	1.5	19
21	Biexciton Dissociation Dynamics in Nanohybrid Au–CuInS <sub>2</sub> Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28497-28505.	1.5	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.	2.8	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 <sub>2</sub> Nanosurface. <i>Journal of Physical Chemistry C</i> , 2014, 118, 3864-3877.	1.5	12
24	Newly Designed Resorcinolate Binding for Ru(II) and Re(I) Polypyridyl Complexes on Oleic Acid Capped TiO <sub>2</sub> in Nonaqueous Solvent: Prolonged Charge Separation and Substantial Thermalized <sup>3</sup> MLCT Injection. <i>Journal of Physical Chemistry C</i> , 2013, 117, 3084-3092.	1.5	22
25	Synthesis, Steady-State, and Femtosecond Transient Absorption Studies of Resorcinol Bound Ruthenium(II)- and Osmium(II)-polypyridyl Complexes on Nano-TiO <sub>2</sub> Surface in Water. <i>Inorganic Chemistry</i> , 2013, 52, 5366-5377.	1.9	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, , .	1.5	6