# Nandan Ghorai

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9066089/publications.pdf

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| 26 | 493 | 686830 13 | 713013 21 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 26 | 26 | 26 | 614 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Efficient Photosensitizing Capabilities and Ultrafast Carrier Dynamics of Doped Carbon Dots. Journal of the American Chemical Society, 2019, 141, 15413-15422. | 6.6 | 74 |
| 2 | Polaron-Mediated Slow Carrier Cooling in a Type-1 3D/0D CsPbBr<sub>3</sub>@Cs<sub>4</sub>PbBr<sub>6</sub> Coreâ€“Shell Perovskite System. Journal of Physical Chemistry Letters, 2019, 10, 5302-5311. | 2.1 | 66 |
| 3 | Cascading electron and hole transfer dynamics in a CdS/CdTe coreâ€“shell sensitized with bromo-pyrogallol red (Br-PGR): slow charge recombination in type II regime. Nanoscale, 2015, 7, 2698-2707. | 2.8 | 51 |
| 4 | Effect of Confinement on the Exciton and Biexciton Dynamics in Perovskite 2D-Nanosheets and 3D-Nanocrystals. Journal of Physical Chemistry Letters, 2020, 11, 6344-6352. | 2.1 | 32 |
| 5 | Concurrent Energy- and Electron-Transfer Dynamics in Photoexcited Mn-Doped CsPbBr<sub>3</sub> Perovskite Nanoplatelet Architecture. Journal of Physical Chemistry Letters, 2021, 12, 302-309. | 2.1 | 27 |
| 6 | Probing Ultrafast Charge Separation in CZTS/CdS Heterojunctions through Femtosecond Transient Absorption Spectroscopy. Journal of Physical Chemistry C, 2020, 124, 19476-19483. | 1.5 | 25 |
| 7 | 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. Journal of Physical Chemistry Letters, 2021, 12, 11865-11872. | 2.1 | 25 |
| 8 | Newly Designed Resorcinolate Binding for Ru(II)â€“ and Re(I)â€“Polypyridyl Complexes on Oleic Acid Capped TiO<sub>2</sub> in Nonaqueous Solvent: Prolonged Charge Separation and Substantial Thermalized <sup>3</sup>MLCT Injection. Journal of Physical Chemistry C, 2013, 117, 3084-3092. | 1.5 | 22 |
| 9 | Ultrafast Plasmon Dynamics and Holeâ€“Phonon Coupling in NIR Active Nonstoichiometric Semiconductor Plasmonic Cu<sub>2â€“x</sub>S Nanocrystals. Journal of Physical Chemistry C, 2019, 123, 28401-28410. | 1.5 | 22 |
| 10 | Exploring the Carrier Dynamics in Zinc Oxideâ€“Metal Halide-Based Perovskite Nanostructures: Toward Reduced Dielectric Loss and Improved Photocurrent. Journal of Physical Chemistry C, 2018, 122, 27273-27283. | 1.5 | 19 |
| 11 | Temperature-Dependent Ultrafast Charge Carrier Dynamics in Amorphous and Crystalline Sb<sub>2</sub>Se<sub>3</sub> Thin Films. Journal of Physical Chemistry C, 2021, 125, 5197-5206. | 1.5 | 16 |
| 12 | Synthesis, Steady-State, and Femtosecond Transient Absorption Studies of Resorcinol Bound Ruthenium(II)- and Osmium(II)-polypyridyl Complexes on Nano-TiO2 Surface in Water. Inorganic Chemistry, 2013, 52, 5366-5377. | 1.9 | 15 |
| 13 | Ultrafast Insights into High Energy (C and D) Excitons in Few Layer WS<sub>2</sub>. Journal of Physical Chemistry Letters, 2021, 12, 6526-6534. | 2.1 | 15 |
| 14 | Superior Grafting and State-of-the-Art Interfacial Electron Transfer Rates for Newly Designed Geminal Dicarboxylate Bound Ruthenium(II)â€“ and Osmium(II)â€“Polypyridyl Dyes on TiO<sub>2</sub> Nanosurface. Journal of Physical Chemistry C, 2014, 118, 3864-3877. | 1.5 | 12 |
| 15 | Biexciton Dissociation Dynamics in Nanohybrid Auâ€“CuInS<sub>2</sub> Nanocrystals. Journal of Physical Chemistry C, 2018, 122, 28497-28505. | 1.5 | 10 |
| 16 | Long-range light-modulated charge transport across the molecular heterostructure doped protein biopolymers. Chemical Science, 2021, 12, 8731-8739. | 3.7 | 10 |
| 17 | Ultrafast Plasmon Dynamics in Near-Infrared Active Non-stoichiometric Cu<sub>2â€“x</sub>Se Nanocrystals and Effect of Chemical Interface Damping. Journal of Physical Chemistry C, 2021, 125, 11468-11477. | 1.5 | 9 |
| 18 | Temperature-Dependent Trap-Assisted Ultrafast Carrier Dynamics in Amorphous and Crystalline <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mi>In</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Se</mml:mi><mml:m Thin Films. Physical Review Applied, 2020, 14, . | 1.5 | 8 |

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|---|---|---|---|
| 19 | CdSâ€“CNTâ€“CoPi Heterostructures for Simultaneous Exciton Separation: Ultrafast and Photoelectrochemical Studies. Journal of Physical Chemistry C, 2021, 125, 8684-8695. | 1.5 | 8 |
| 20 | Unraveling the Carrier Dynamics and Photocatalytic Pathway in Carbon Dots and Pollutants of Wastewater System. Journal of Physical Chemistry C, 0, , . | 1.5 | 6 |
| 21 | Plasmon Mediated Electron Transfer and Temperature Dependent Electronâ€Phonon Scattering in Gold Nanoparticles Embedded in Dielectric Films. ChemPhysChem, 2022, 23, . | 1.0 | 5 |
| 22 | Disentangling the Electron and Hole Dynamics in Janus CdSe/PbSe Nanocrystals through Variable Pump Transient Absorption Spectroscopy. Journal of Physical Chemistry C, 2018, 122, 29075-29079. | 1.5 | 4 |
| 23 | Impact of one step alloying on the carrier relaxation and charge separation dynamics of CdxZn1-xSe graded nanocrystals. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 388, 112131. | 2.0 | 3 |
| 24 | Proton-Coupled Electron Transfer for Photoinduced Generation of Two-Electron Reduced Species of Quinone. Journal of Physical Chemistry B, 2020, 124, 11165-11174. | 1.2 | 3 |
| 25 | Effect of Surface Ligand on Chemical Interface Damping in Nonstoichiometric Cu2â€“xS Semiconductor Nanocrystals: A Direct Correlation between Ultrafast Carrier Dynamics and Photoconductivity. Journal of Physical Chemistry C, 2021, 125, 23250-23258. | 1.5 | 3 |
| 26 | Chemical Interface Damping in Nonstoichiometric Semiconductor Plasmonic Nanocrystals: An Effect of the Surrounding Environment. Langmuir, 2022, 38, 5339-5350. | 1.6 | 3 |