

Nandan Ghorai

List of Publications by Year in descending order

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614
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. | 13.7 | 74 |
| 2 | Polaron-Mediated Slow Carrier Cooling in a Type-1 3D/0D CsPbBr ₃ @Cs ₄ PbBr ₆ Core-Shell Perovskite System. Journal of Physical Chemistry Letters, 2019, 10, 5302-5311. | 4.6 | 66 |
| 3 | 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. Nanoscale, 2015, 7, 2698-2707. | 5.6 | 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. | 4.6 | 32 |
| 5 | Concurrent Energy- and Electron-Transfer Dynamics in Photoexcited Mn-Doped CsPbBr ₃ Perovskite Nanoplatelet Architecture. Journal of Physical Chemistry Letters, 2021, 12, 302-309. | 4.6 | 27 |
| 6 | Probing Ultrafast Charge Separation in CZTS/CdS Heterojunctions through Femtosecond Transient Absorption Spectroscopy. Journal of Physical Chemistry C, 2020, 124, 19476-19483. | 3.1 | 25 |
| 7 | 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. Journal of Physical Chemistry Letters, 2021, 12, 11865-11872. | 4.6 | 25 |
| 8 | 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. Journal of Physical Chemistry C, 2013, 117, 3084-3092. | 3.1 | 22 |
| 9 | Ultrafast Plasmon Dynamics and Hole-Phonon Coupling in NIR Active Nonstoichiometric Semiconductor Plasmonic Cu _{2-x} S Nanocrystals. Journal of Physical Chemistry C, 2019, 123, 28401-28410. | 3.1 | 22 |
| 10 | Exploring the Carrier Dynamics in Zinc Oxide-Metal Halide-Based Perovskite Nanostructures: Toward Reduced Dielectric Loss and Improved Photocurrent. Journal of Physical Chemistry C, 2018, 122, 27273-27283. | 3.1 | 19 |
| 11 | Temperature-Dependent Ultrafast Charge Carrier Dynamics in Amorphous and Crystalline Sb ₂ Se ₃ Thin Films. Journal of Physical Chemistry C, 2021, 125, 5197-5206. | 3.1 | 16 |
| 12 | 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. Inorganic Chemistry, 2013, 52, 5366-5377. | 4.0 | 15 |
| 13 | Ultrafast Insights into High Energy (C and D) Excitons in Few Layer WS ₂ . Journal of Physical Chemistry Letters, 2021, 12, 6526-6534. | 4.6 | 15 |
| 14 | 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. Journal of Physical Chemistry C, 2014, 118, 3864-3877. | 3.1 | 12 |
| 15 | Biexciton Dissociation Dynamics in Nanohybrid Au-CuInS ₂ Nanocrystals. Journal of Physical Chemistry C, 2018, 122, 28497-28505. | 3.1 | 10 |
| 16 | Long-range light-modulated charge transport across the molecular heterostructure doped protein biopolymers. Chemical Science, 2021, 12, 8731-8739. | 7.4 | 10 |
| 17 | Ultrafast Plasmon Dynamics in Near-Infrared Active Non-stoichiometric Cu _{2-x} Se Nanocrystals and Effect of Chemical Interface Damping. Journal of Physical Chemistry C, 2021, 125, 11468-11477. | 3.1 | 9 |
| 18 | Temperature-Dependent Trap-Assisted Ultrafast Carrier Dynamics in Amorphous and Crystalline $\ln_2\text{Se}_8$ Thin Films. Physical Review Applied, 2020, 14, . | 3.8 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | Impact of one step alloying on the carrier relaxation and charge separation dynamics of $Cd_xZn_{1-x}Se$ graded nanocrystals. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 388, 112131. | 3.9 | 3 |
| 24 | 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 |
| 25 | Effect of Surface Ligand on Chemical Interface Damping in Nonstoichiometric Cu_2-xS 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 |
| 26 | Chemical Interface Damping in Nonstoichiometric Semiconductor Plasmonic Nanocrystals: An Effect of the Surrounding Environment. <i>Langmuir</i> , 2022, 38, 5339-5350. | 3.5 | 3 |