

Hirendra N Ghosh

List of Publications by Year in descending order

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6993
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#	ARTICLE	IF	CITATIONS
1	Solution-processed Cd-substituted CZTS nanocrystals for sensitized liquid junction solar cells. <i>Journal of Alloys and Compounds</i> , 2022, 890, 161575.	5.5	9
2	Interfacing g-C ₃ N ₄ Nanosheets with CdS Nanorods for Enhanced Photocatalytic Hydrogen Evolution: An Ultrafast Investigation. <i>Journal of Physical Chemistry B</i> , 2022, 126, 572-580.	2.6	16
3	Insight into morphology dependent charge carrier dynamics in ZnSe@CdS nanoheterostructures. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 8519-8528.	2.8	6
4	Fast Polaron Formation and Low Carrier Mobility in Defect-Free Polyhedral CsPbBr ₃ Perovskite Nanocrystals. <i>ACS Photonics</i> , 2022, 9, 969-978.	6.6	23
5	Defect-Interceded Cascading Energy Transfer and Underlying Charge Transfer in Europium-Doped CsPbCl ₃ Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 83-90.	4.6	8
6	Gold@BODIPY Nanoparticles with Luminescence and Photosensitization Properties for Photodynamic Therapy and Cell Imaging. <i>ACS Applied Nano Materials</i> , 2022, 5, 6532-6542.	5.0	6
7	Chemical Interface Damping in Nonstoichiometric Semiconductor Plasmonic Nanocrystals: An Effect of the Surrounding Environment. <i>Langmuir</i> , 2022, 38, 5339-5350.	3.5	3
8	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
9	Hot electron migration from gold nanoparticle to an organic molecule enhances luminescence and photosensitization properties of a pH activatable plasmon-molecule coupled nanocomposite. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 432, 114067.	3.9	0
10	Unravelling the Surface-State Assisted Ultrafast Charge Transfer Dynamics of Graphene Quantum Dot-Based Nano hybrids via Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2022, 126, 11182-11192.	3.1	8
11	Probing the charge transfer mechanisms in type-II Cs ₂ AgBiBr ₆ -CdSe composite system: ultrafast insights. <i>Nanotechnology</i> , 2022, 33, 485406.	2.6	1
12	Ultrafast Charge Delocalization Dynamics of Ambient Stable CsPbBr ₃ Nanocrystals Encapsulated in Polystyrene Fiber. <i>Chemistry - A European Journal</i> , 2021, 27, 683-691.	3.3	26
13	Fine-Tuning Plasmon-Molecule Interactions in Gold@BODIPY Nanocomposites: The Role of Chemical Structure and Noncovalent Interactions. <i>ChemPlusChem</i> , 2021, 86, 87-94.	2.8	12
14	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
15	Revealing the electronic structure, heterojunction band offset and alignment of Cu ₂ ZnGeSe ₄ : a combined experimental and computational study towards photovoltaic applications. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 9553-9560.	2.8	6
16	Long-range light-modulated charge transport across the molecular heterostructure doped protein biopolymers. <i>Chemical Science</i> , 2021, 12, 8731-8739.	7.4	10
17	Mechanistic Insights for Photoelectrochemical Ethanol Oxidation on Black Gold Decorated Monoclinic Zirconia. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 9942-9954.	8.0	15
18	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

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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	Ultrafast Plasmon Dynamics in Near-Infrared Active Non-stoichiometric Cu _{2-x} Se Nanocrystals and Effect of Chemical Interface Damping. <i>Journal of Physical Chemistry C</i> , 2021, 125, 11468-11477.	3.1	9
21	Unravelling the Underlying Hot Carrier Transfer and Relaxation Pathways in Type-1 CsPbBr ₃ Pb System. <i>Journal of Physical Chemistry C</i> , 2021, 125, 10516-10525.	3.1	10
22	Defect-Mediated Slow Carrier Recombination and Broad Photoluminescence in Non-Metal-Doped ZnIn ₂ S ₄ Nanosheets for Enhanced Photocatalytic Activity. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5000-5008.	4.6	31
23	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
24	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
25	Enhanced Charge Carrier Separation and Improved Biexciton Yield at the p-n Junction of SnSe/CdSe Heterostructures: A Detailed Electrochemical and Ultrafast Spectroscopic Investigation. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10958-10968.	4.6	9
26	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
27	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
28	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
29	Temperature-Dependent Interplay of Polaron Formation and Hot Carrier Cooling Dynamics in CsPbBr ₃ Nanocrystals: Role of Carrier-Phonon Coupling Strength. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6206-6213.	4.6	22
30	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
31	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, .	3.8	8
32	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
33	An Insight of Molecular Twisting of Coumarin Dyes. <i>ChemistrySelect</i> , 2020, 5, 9461-9476.	1.5	9
34	Hot Carrier Relaxation in CsPbBr ₃ -Based Perovskites: A Polaron Perspective. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8765-8776.	4.6	24
35	Experimental and Theoretical Study into Interface Structure and Band Alignment of the Cu ₂ ZnIn ₂ S ₄ /CdSnS ₄ Heterointerface for Photovoltaic Applications. <i>ACS Applied Energy Materials</i> , 2020, 3, 5153-5162.	5.1	25
36	Correlating Charge-Carrier Dynamics with Efficiency in Quantum-Dot Solar Cells: Can Excitons Lead to Highly Efficient Devices?. <i>Chemistry - A European Journal</i> , 2019, 25, 692-702.	3.3	15

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37	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
38	Hydrogen bond assisted photoinduced intramolecular electron transfer and proton coupled electron transfer in an ultrafast time domain using a ruthenium-anthraquinone dyad. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 2430-2441.	2.9	12
39	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
40	Ternary Metal Chalcogenides: Into the Exciton and Biexciton Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6227-6238.	4.6	21
41	Ultrafast Carrier Dynamics of the Exciton and Trion in MoS ₂ Monolayers Followed by Dissociation Dynamics in Au@MoS ₂ 2D Heterointerfaces. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3057-3063.	4.6	41
42	Improving the Power Conversion Efficiency through Alloying in Common Anion CdZnX (X=S, Se) Nanocrystal Sensitized Solar Cells. <i>ChemPhysChem</i> , 2019, 20, 2662-2667.	2.1	2
43	Hot Charge Carriers in Quantum Dots: Generation, Relaxation, Extraction, and Applications. <i>ChemNanoMat</i> , 2019, 5, 985-999.	2.8	11
44	Recent Progress of Electron Storage Mn Center in Doped Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2019, 123, 10703-10719.	3.1	22
45	Efficient charge transport in surface engineered TiO ₂ nanoparticulate photoanodes leading to improved performance in quantum dot sensitized solar cells. <i>Solar Energy</i> , 2019, 181, 195-202.	6.1	23
46	Ultrafast Plasmon Dynamics and Hole-Phonon Coupling in NIR Active Nonstoichiometric Semiconductor Plasmonic Cu ₂ S Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2019, 123, 28401-28410.	3.1	22
47	Strategies for extending charge separation in colloidal nanostructured quantum dot materials. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 23283-23300.	2.8	5
48	Impact of FRET between Molecular Aggregates and Quantum Dots. <i>Chemistry - an Asian Journal</i> , 2019, 14, 597-605.	3.3	7
49	S ₂ and mixed aggregate state emission of thiophene-BODIPY. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 368, 147-152.	3.9	4
50	Concurrent Ultrafast Electron- and Hole-Transfer Dynamics in CsPbBr ₃ Perovskite and Quantum Dots. <i>ACS Omega</i> , 2018, 3, 2706-2714.	3.5	32
51	Inhibiting Interfacial Charge Recombination for Boosting Power Conversion Efficiency in CdSe{Au} Nanohybrid Sensitized Solar Cell. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13277-13284.	3.1	15
52	Direct Correlation of Excitonics with Efficiency in a Core-Shell Quantum Dot Solar Cell. <i>Chemistry - A European Journal</i> , 2018, 24, 2418-2425.	3.3	19
53	Boosting the Efficiency of Quantum Dot-Sensitized Solar Cells through Formation of the Cation-Exchanged Hole Transporting Layer. <i>Langmuir</i> , 2018, 34, 50-57.	3.5	20
54	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

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55	Exploring the Carrier Dynamics in Zinc Oxideâ€“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
56	Biexciton Dissociation Dynamics in Nanohybrid Auâ€“CuInS ₂ Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28497-28505.	3.1	10
57	Charge carrier dynamics in CdTe/ZnTe core/shell nanocrystals for photovoltaic applications $\$^{\$}$. <i>Journal of Chemical Sciences</i> , 2018, 130, 1.	1.5	4
58	Hot Charge Carrier Extraction from Semiconductor Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17586-17600.	3.1	33
59	Solar Conversion Efficiency Performance of a High Temperature Alloy over a Low Temperature One: Comprehending Interfaces through <i><i>Excitonics</i></i> Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 11312-11321.	3.1	5
60	An Insight into the Interface through Excited-State Carrier Dynamics for Promising Enhancement of Power Conversion Efficiency in a Mn-Doped CdZnSSe Gradient Alloy. <i>Chemistry - A European Journal</i> , 2017, 23, 3755-3763.	3.3	17
61	Exciton Separation in CdS Supraparticles upon Conjugation with Graphene Sheets. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6581-6588.	3.1	27
62	Demonstrating the role of anchoring functionality in interfacial electron transfer dynamics in the newly synthesized BODIPYâ€“TiO ₂ nanostructure composite. <i>New Journal of Chemistry</i> , 2017, 41, 5215-5224.	2.8	12
63	Hot-electron transfer from the semiconductor domain to the metal domain in CdSe@CdS{Au} nano-heterostructures. <i>Nanoscale</i> , 2017, 9, 9723-9731.	5.6	37
64	Metalâ€“Ligand Complexâ€“Induced Ultrafast Chargeâ€“Carrier Relaxation and Chargeâ€“Transfer Dynamics in CdX (X=S, Se, Te) Quantum Dots Sensitized with Nitrocatechol. <i>Chemistry - A European Journal</i> , 2017, 23, 10590-10596.	3.3	13
65	Tuning Hole and Electron Transfer from Photoexcited CdSe Quantum Dots to Phenol Derivatives: Effect of Electronâ€“Donating and â€“Withdrawing Moieties. <i>Chemistry - A European Journal</i> , 2017, 23, 7306-7314.	3.3	10
66	Light Harvesting and Photocurrent Generation in a Conjugated Polymer Nanoparticleâ€“Reduced Graphene Oxide Composite. <i>ChemPhysChem</i> , 2017, 18, 1308-1316.	2.1	23
67	Protonâ€“Coupled Electronâ€“Transfer Processes in Ultrafast Time Domain: Evidence for Effects of Hydrogenâ€“Bond Stabilization on Photoinduced Electron Transfer. <i>Chemistry - A European Journal</i> , 2017, 23, 3455-3465.	3.3	11
68	Carrier relaxation dynamics in type-II ZnO/CdSe quantum dot heterostructures. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 24896-24902.	2.8	4
69	Exciton Dynamics and Formation Mechanism of MEH-PPV Polymer-Based Nanostructures. <i>Journal of Physical Chemistry C</i> , 2017, 121, 21062-21072.	3.1	17
70	Electron-Transfer-Mediated Uranium Detection Using Quasi-Type II Coreâ€“Shell Quantum Dots: Insight into Mechanistic Pathways. <i>Langmuir</i> , 2017, 33, 8114-8122.	3.5	28
71	Electrochemical Evaluation of Dopant Energetics and the Modulation of Ultrafast Carrier Dynamics in Cu-Doped CdSe Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27233-27240.	3.1	21
72	Micellar extraction assisted fluorometric determination of ultratrace amount of uranium in aqueous samples by novel diglycolamide-capped quantum dot nanosensor. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 592-602.	7.8	31

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73	Effect of Molecular Coupling on Ultrafast Electron Transfer and Charge Recombination Dynamics in a Wide-Gap ZnS Nanoaggregate Sensitized by Triphenyl Methane Dyes. <i>ChemPhysChem</i> , 2016, 17, 724-730.	2.1	3
74	Elucidating the Electronic Cross-Talk Dynamics across the Heterointerface of Janus CdSe/PbSe Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2016, 120, 29054-29061.	3.1	8
75	Unusually Slow Electron Cooling to Charge-Transfer State in Gradient CdTeSe Alloy Nanocrystals Mediated through Mn Atom. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1359-1367.	4.6	33
76	Charge Delocalization in the Cascade Band Structure CdS/CdSe and CdS/CdTe Core-Shell Sensitized with Re(I)-Polypyridyl Complex. <i>Journal of Physical Chemistry C</i> , 2016, 120, 10051-10061.	3.1	17
77	Intraband Electron Cooling Mediated Unprecedented Photocurrent Conversion Efficiency of CdS _{1-x} Se _x Alloy QDs: Direct Correlation between Electron Cooling and Efficiency. <i>Journal of Physical Chemistry C</i> , 2016, 120, 21309-21316.	3.1	25
78	Involvement of Sub-Bandgap States in Subpicosecond Exciton and Biexciton Dynamics of Ternary AgInS ₂ Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3206-3214.	4.6	24
79	Photoinduced ultrafast charge separation in colloidal 2-dimensional CdSe/CdS-Au hybrid nanoplatelets and corresponding application in photocatalysis. <i>Nanoscale</i> , 2016, 8, 15802-15812.	5.6	63
80	Chemically clean single-step oxido-reductive synthesis of green luminescent graphene quantum dots as impending electrocatalyst. <i>Carbon</i> , 2016, 109, 517-528.	10.3	25
81	Proton-Coupled Electron Transfer in a Hydrogen-Bonded Charge-Transfer Complex. <i>Journal of Physical Chemistry B</i> , 2016, 120, 10780-10785.	2.6	11
82	Multiple Charge Transfer Dynamics in Colloidal CsPbBr ₃ Perovskite Quantum Dots Sensitized Molecular Adsorbate. <i>Journal of Physical Chemistry C</i> , 2016, 120, 18348-18354.	3.1	51
83	Size of CdTe Quantum Dots Controls the Hole Transfer Rate in CdTe Quantum Dots-MEHPV Polymer Nanoparticle Hybrid. <i>Journal of Physical Chemistry C</i> , 2016, 120, 25142-25150.	3.1	30
84	Exciton delocalization and hot hole extraction in CdSe QDs and CdSe/ZnS type 1 core shell QDs sensitized with newly synthesized thiols. <i>Nanoscale</i> , 2016, 8, 1823-1833.	5.6	27
85	Tuning the Charge Carrier Dynamics via Interfacial Alloying in Core/Shell CdTe/ZnSe NCs. <i>Journal of Physical Chemistry C</i> , 2016, 120, 1918-1925.	3.1	17
86	Lattice-Strain-Induced Slow Electron Cooling Due to Quasi-Type-II Behavior in Type-I CdTe/ZnS Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2015, 119, 8410-8416.	3.1	36
87	Ultrafast Electron Injection, Hole Transfer, and Charge Recombination Dynamics in CdSe QD Super-Sensitized Re(I)-Polypyridyl Complexes with Catechol and Resorcinol Moiety: Effect of Coupling. <i>Journal of Physical Chemistry C</i> , 2015, 119, 3522-3529.	3.1	21
88	Restriction of Molecular Rotation and Intramolecular Charge Distribution in the Photoexcited State of Coumarin Dyes on Gold Nanoparticle Surface. <i>Journal of Physical Chemistry C</i> , 2015, 119, 2046-2052.	3.1	16
89	Restriction of Molecular Twisting on a Gold Nanoparticle Surface. <i>Chemistry - A European Journal</i> , 2015, 21, 5704-5708.	3.3	8
90	Hot-Hole Extraction from Quantum Dot to Molecular Adsorbate. <i>Chemistry - A European Journal</i> , 2015, 21, 4405-4412.	3.3	30

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91	Slow Electron Cooling Dynamics Mediated by Electron-Hole Decoupling in Highly Luminescent CdS _x Se _{1-x} Alloy Quantum Dots. Journal of Physical Chemistry C, 2015, 119, 10785-10792.	3.1	41
92	Density functional investigation and some optical experiments on dye-sensitized quantum dots. Physical Chemistry Chemical Physics, 2015, 17, 28683-28696.	2.8	21
93	Hydrogen Bond and Ligand Dissociation Dynamics in Fluoride Sensing of Re(I)-Polypyridyl Complex. Journal of Physical Chemistry B, 2015, 119, 14952-14958.	2.6	15
94	Subpicosecond Exciton Dynamics and Biexcitonic Feature in Colloidal CuInS ₂ Nanocrystals: Role of In-Cu Antisite Defects. Journal of Physical Chemistry Letters, 2015, 6, 3458-3465.	4.6	45
95	Enhanced Charge Separation in an Epitaxial Metal-Semiconductor Nanohybrid Material Anchored with an Organic Molecule. Journal of Physical Chemistry C, 2015, 119, 22181-22189.	3.1	26
96	Ultrafast Charge Carrier Delocalization in CdSe/CdS Quasi-Type II and CdS/CdSe Inverted Type I Core-Shell: A Structural Analysis through Carrier-Quenching Study. Journal of Physical Chemistry C, 2015, 119, 26202-26211.	3.1	62
97	Super Sensitization: Grand Charge (Hole/Electron) Separation in ATC Dye Sensitized CdSe, CdSe/ZnS Type-I, and CdSe/CdTe Type-II Core-Shell Quantum Dots. Chemistry - A European Journal, 2014, 20, 13305-13313.	3.3	26
98	Size Quantization Effects on Interfacial Electron Transfer Dynamics in Ru(II)-Polypyridyl Complex Sensitized ZnO QDs. Journal of Physical Chemistry C, 2014, 118, 28898-28905.	3.1	8
99	Extensive Reduction in Back Electron Transfer in Twisted Intramolecular Charge-Transfer (TICT) Coumarin-Dye-Sensitized TiO ₂ Nanoparticles/Film: A Femtosecond Transient Absorption Study. Chemistry - A European Journal, 2014, 20, 3510-3519.	3.3	34
100	Ultrafast excited state dynamics of S2 and S1 states of triphenylmethane dyes. Physical Chemistry Chemical Physics, 2014, 16, 16824-16831.	2.8	17
101	Electron Trap to Electron Storage Center in Specially Aligned Mn-Doped CdSe d-Dot: A Step Forward in the Design of Higher Efficient Quantum-Dot Solar Cell. Journal of Physical Chemistry Letters, 2014, 5, 2836-2842.	4.6	58
102	Ultrafast Hole/Electron Transfer Dynamics in a CdSe Quantum Dot Sensitized by Pyrogallol Red: A Super-Sensitization System. Journal of Physical Chemistry C, 2014, 118, 16358-16365.	3.1	37
103	Tuning Interfacial Charge Separation by Molecular Twist: A New Insight into Coumarin-Sensitized TiO ₂ Films. Journal of Physical Chemistry C, 2014, 118, 10661-10669.	3.1	25
104	Ultrafast Hole- and Electron-Transfer Dynamics in CdS-Dibromofluorescein (DBF) Supersensitized Quantum Dot Solar Cell Materials. Journal of Physical Chemistry Letters, 2013, 4, 4020-4025.	4.6	53
105	Interfacial charge recombination of Os(II)-polypyridyl-resorcinol complex on oleic acid capped TiO ₂ surface: what determines the dynamics?. New Journal of Chemistry, 2013, 37, 3100.	2.8	5
106	Ultrafast Electron-Transfer and -Trapping Dynamics in the Inter-Band-Gap States of ZrO ₂ Nanoparticles Sensitized by Baicalein. Journal of Physical Chemistry C, 2013, 117, 17531-17539.	3.1	17
107	Charge carrier cascade in Type II CdSe-CdTe graded core-shell interface. Journal of Materials Chemistry C, 2013, 1, 2755.	5.5	28
108	Charge Separation by Indirect Bandgap Transitions in CdS/ZnSe Type-II Core/Shell Quantum Dots. Journal of Physical Chemistry C, 2013, 117, 10901-10908.	3.1	71

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109	Ultrafast interfacial charge transfer dynamics in dye-sensitized and quantum dot solar cell. , 2013, , .		0
110	Ultrafast Charge Separation Dynamics of Twisted Intramolecular Charge Transfer State (TICT) in Coumarin Dye Sensitized TiO ₂ Film: A New Route to Achieve Higher Efficient Dye-Sensitized Solar Cell. EPJ Web of Conferences, 2013, 41, 08001.	0.3	1
111	Spectroscopy and Femtosecond Dynamics of Water Soluble Type I CdSe/ZnS Core-Shell Quantum Dot. Science of Advanced Materials, 2013, 5, 1354-1363.	0.7	7
112	Sequential Energy and Electron Transfer in Polynuclear Complex Sensitized TiO ₂ Nanoparticles. Journal of Physical Chemistry Letters, 2012, 3, 1543-1548.	4.6	21
113	Does Bridging Geometry Influence Interfacial Electron Transfer Dynamics? Case of the Eneidiol-TiO ₂ System. Journal of Physical Chemistry C, 2012, 116, 98-103.	3.1	30
114	Photosensitization of nanoparticulate TiO ₂ using a Re(i)-polypyridyl complex: studies on interfacial electron transfer in the ultrafast time domain. Physical Chemistry Chemical Physics, 2012, 14, 8192.	2.8	25
115	Ultrafast Charge Transfer Dynamics in Photoexcited CdTe Quantum Dot Decorated on Graphene. Journal of Physical Chemistry C, 2012, 116, 16271-16275.	3.1	68
116	On the Role of Hydrogen Bonds in Photoinduced Electron-Transfer Dynamics between 9-Fluorenone and Amine Solvents. Chemistry - A European Journal, 2012, 18, 4930-4937.	3.3	26
117	Exciton Energy and Charge Transfer in Porphyrin Aggregate/Semiconductor (TiO ₂) Composites. Journal of Physical Chemistry Letters, 2012, 3, 1877-1884.	4.6	113
118	Ultrafast Hole Transfer in CdSe/ZnTe Type II Core-Shell Nanostructure. Journal of Physical Chemistry C, 2011, 115, 1428-1435.	3.1	54
119	Employing a Photosynthetic Antenna Complex to Interfacial Electron Transfer on ZnO Quantum Dot. Journal of Physical Chemistry Letters, 2011, 2, 858-862.	4.6	10
120	Effect of Surface States on Charge-Transfer Dynamics in Type II CdTe/ZnTe Core-Shell Quantum Dots: A Femtosecond Transient Absorption Study. Journal of Physical Chemistry C, 2011, 115, 12335-12342.	3.1	38
121	Ultrafast Forward and Backward Electron Transfer Dynamics of Coumarin 337 in Hydrogen-Bonded Anilines As Studied with Femtosecond UV-Pump/IR-Probe Spectroscopy. Journal of Physical Chemistry A, 2011, 115, 664-670.	2.5	19
122	Ultrafast Relaxation Dynamics in Graphene Oxide: Evidence of Electron Trapping. Journal of Physical Chemistry C, 2011, 115, 19110-19116.	3.1	95
123	Interfacial Electron Transfer Dynamics of Two Newly Synthesized Catecholate Bound Ru ^{II} Polypyridyl-Based Sensitizers on TiO ₂ Nanoparticle Surface - A Femtosecond Pump Probe Spectroscopic Study. European Journal of Inorganic Chemistry, 2011, 2011, 4187-4197.	2.0	25
124	Competitive binding of Ba ²⁺ and Sr ²⁺ to 18-Crown-6 in a Receptor with a 1-Methoxyanthraquinone Analogue as the Other Binding Site. European Journal of Inorganic Chemistry, 2011, 2011, 4680-4690.	2.0	12
125	Surface-State-Mediated Charge-Transfer Dynamics in CdTe/CdSe Core-Shell Quantum Dots. ChemPhysChem, 2011, 12, 1729-1735.	2.1	11
126	Efficient Charge Separation in TiO ₂ Films Sensitized with Ruthenium(II)-Polypyridyl Complexes: Hole Stabilization by Ligand-Localized Charge-Transfer States. Chemistry - A European Journal, 2011, 17, 1561-1568.	3.3	33

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127	Exciton-Coupled Charge-Transfer Dynamics in a Porphyrin J-Aggregate/TiO ₂ Complex. Chemistry - A European Journal, 2011, 17, 3458-3464.	3.3	37
128	The Effect of Heavy Atoms on Photoinduced Electron Injection from Nonthermalized and Thermalized Donor States of M ^{II} -Polypyridyl (M=Ru/Os) Complexes to Nanoparticulate TiO ₂ Surfaces: An Ultrafast Time-Resolved Absorption Study. Chemistry - A European Journal, 2010, 16, 611-619.	3.3	60
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