

Samir Kumar Pal

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

249
papers

8,468
citations

44
h-index

83
g-index

269
ext. papers

9,247
ext. citations

4.6
avg, IF

6.21
L-index

#	Paper	IF	Citations
249	Decoding the Kinetic Pathways toward a Lipid/DNA Complex of Alkyl Alcohol Cationic Lipids Formed in a Microfluidic Channel.. <i>Journal of Physical Chemistry B</i> , 2022 ,	3.4	2
248	Fabrication of nanohybrids toward improving therapeutic potential of a NIR photo-sensitizer: An optical spectroscopic and computational study. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022 , 424, 113610	4.7	4
247	Tetracycline Encapsulated in Au Nanoparticle-Decorated ZnO Nanohybrids for Enhanced Antibacterial Activity. <i>ACS Applied Nano Materials</i> , 2022 , 5, 4484-4492	5.6	1
246	Integration of electroencephalogram (EEG) and motion tracking sensors for objective measure of attention-deficit hyperactivity disorder (MAHD) in pre-schoolers. <i>Review of Scientific Instruments</i> , 2022 , 93, 054101	1.7	
245	Development of a smart active respirator for comfortable and hygienic breathing. <i>Physics of Fluids</i> , 2022 , 34, 051901	4.4	
244	Reversible photoswitching of spiropyran in biomolecular interfaces: A combined spectroscopy and computational study. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022 , 430, 113958	4.7	0
243	Pico-second resolved Förster resonance energy transfer (FRET) differentiates self-assembled biological macromolecules in aqueous medium. <i>Chemical Physics Impact</i> , 2022 , 4, 100081	1.6	
242	Functionalized nano-MOF for NIR induced bacterial remediation: A combined spectroscopic and computational study. <i>Inorganica Chimica Acta</i> , 2021 , 532, 120733	2.7	3
241	Polyethylene Glycol-Mediated Fusion of Extracellular Vesicles with Cationic Liposomes for the Design of Hybrid Delivery Systems.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 8259-8266	4.1	3
240	Synthesis of Template-Free Iron Oxyhydroxide Nanorods for Sunlight-Driven Photo-Fenton Catalysis. <i>ACS Omega</i> , 2021 , 6, 27905-27912	3.9	0
239	Intriguing Biomedical Applications of Synthetic and Natural Cell-Derived Vesicles: A Comparative Overview.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 2863-2885	4.1	4
238	Host assisted molecular recognition by human serum albumin: Study of molecular recognition controlled protein/drug mimic binding in a microfluidic channel. <i>International Journal of Biological Macromolecules</i> , 2021 , 176, 137-144	7.9	1
237	Highly Sensitive Optical Sensor for Selective Detection of Fluoride Level in Drinking Water: Methodology to Fabrication of Prototype Device. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 7160-7170	8.3	4
236	Synthesis and spectroscopic characterization of a target-specific nanohybrid for redox buffering in cellular milieu. <i>MRS Advances</i> , 2021 , 6, 427-433	0.7	3
235	Redox Buffering Capacity of Nanomaterials as an Index of ROS-Based Therapeutics and Toxicity: A Preclinical Animal Study. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 2475-2484	5.5	2
234	Nanoceutical Fabric Prevents COVID-19 Spread through Expelled Respiratory Droplets: A Combined Computational, Spectroscopic, and Antimicrobial Study. <i>ACS Applied Bio Materials</i> , 2021 , 4, 5471-5484	4.1	7
233	Development of Triboelectroceutical Fabrics for Potential Applications in Self-Sanitizing Personal Protective Equipment.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 5485-5493	4.1	1

232	Incorporation of a Biocompatible Nanozyme in Cellular Antioxidant Enzyme Cascade Reverses Huntington's Like Disorder in Preclinical Model. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2001736	10.1	7
231	Spectroscopic study on the interaction of Co ²⁺ with citrate-Mn ₃ O ₄ : Towards the development of nanotherapy against cobalt toxicity. <i>Materials Today: Proceedings</i> , 2021 , 43, 3692-3697	1.4	1
230	An Energy-Resolved Optical Non-invasive Device Detects Essential Electrolyte Balance in Humans at Point-of-Care 2021 , 6, 355		
229	Redox nanomedicine ameliorates chronic kidney disease (CKD) by mitochondrial reconditioning in mice. <i>Communications Biology</i> , 2021 , 4, 1013	6.7	1
228	Sensitization of nontoxic MOF for their potential drug delivery application against microbial infection. <i>Inorganica Chimica Acta</i> , 2021 , 523, 120381	2.7	12
227	In vitro and Microbiological Assay of Functionalized Hybrid Nanomaterials To Validate Their Efficacy in Nanotheranostics: A Combined Spectroscopic and Computational Study. <i>ChemMedChem</i> , 2021 ,	3.7	2
226	Dabrafenib, idelalisib and nintedanib act as significant allosteric modulator for dengue NS3 protease. <i>PLoS ONE</i> , 2021 , 16, e0257206	3.7	1
225	Broad light harvesting under restricted environment: Photophysical understanding leading to enhanced reactive oxygen species generation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021 , 418, 113422	4.7	0
224	Identification of Biomarker Hyaluronan on Colon Cancer Extracellular Vesicles Using Correlative AFM and Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 5569-5576	6.4	12
223	Combating Essential Metal Toxicity: Key Information from Optical Spectroscopy. <i>ACS Omega</i> , 2020 , 5, 15666-15672	3.9	11
222	Intriguing electronic and optical prospects of FCC bimetallic two-dimensional heterostructures: epsilon near-zero behavior in UV-Vis range. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 16314-16324	3.6	
221	Flexibility modulates the catalytic activity of a thermostable enzyme: key information from optical spectroscopy and molecular dynamics simulation. <i>Soft Matter</i> , 2020 , 16, 3050-3062	3.6	8
220	Flower-Like BiOI Microspheres Decorated with Plasmonic Gold Nanoparticles for Dual Detoxification of Organic and Inorganic Water Pollutants. <i>ACS Applied Nano Materials</i> , 2020 , 3, 2733-2744	5.6	17
219	Protein assembled nano-vehicle entrapping photosensitizer molecules for efficient lung carcinoma therapy. <i>International Journal of Pharmaceutics</i> , 2020 , 580, 119192	6.5	4
218	A combined spectroscopic and study of the transmetalation of a polyphenol as a potential purification strategy for food additives.. <i>RSC Advances</i> , 2020 , 10, 5636-5647	3.7	6
217	Simultaneous measurement of atmospheric moisture and temperature in the presence of suspended particulates using ultrasonic technique. <i>Japanese Journal of Applied Physics</i> , 2020 , 59, 096503	1.4	1
216	Development of a magnetic nanohybrid for multifunctional application: From immobile photocatalysis to efficient photoelectrochemical water splitting: A combined experimental and computational study. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 397, 112575	4.7	6
215	Nano-MOFs as targeted drug delivery agents to combat antibiotic-resistant bacterial infections. <i>Royal Society Open Science</i> , 2020 , 7, 200959	3.3	11

214	Nanoparticle-based 'turn-on' scattering and post-sample fluorescence for ultrasensitive detection of water pollution in wider window. <i>PLoS ONE</i> , 2020 , 15, e0227584	3.7	5
213	Rationalization of a traditional liver medicine using systems biology approach and its evaluation in preclinical trial. <i>Computational Biology and Chemistry</i> , 2020 , 84, 107196	3.6	2
212	Development of A Nano-Sensor (FeNSOR) Based Device for Estimation of Iron Ions in Biological and Environmental Samples. <i>IEEE Sensors Journal</i> , 2020 , 20, 1268-1274	4	3
211	Deciphering the response of asymmetry in the hydrophobic chains of novel cationic lipids towards biological function. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 1738-1746	3.6	9
210	Spectroscopy of an intrinsic fluorophore in animal and plant milk for potential identification of their quality. <i>Journal of Dairy Science</i> , 2020 , 103, 1366-1376	4	2
209	A Smart Nanotherapeutic Agent for in vitro and in vivo Reversal of Heavy-Metal-Induced Causality: Key Information from Optical Spectroscopy. <i>ChemMedChem</i> , 2020 , 15, 420-429	3.7	7
208	Order, Disorder, and Reorder State of Lysozyme: Aggregation Mechanism by Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 50-60	3.4	9
207	Differential flexibility leading to crucial microelastic properties of asymmetric lipid vesicles for cellular transfection: A combined spectroscopic and atomic force microscopy studies. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 196, 111363	6	5
206	The Role of Imidazolium-Based Surface-Active Ionic Liquid to Restrain the Excited-State Intramolecular H-Atom Transfer Dynamics of Medicinal Pigment Curcumin: A Theoretical and Experimental Approach. <i>ACS Omega</i> , 2020 , 5, 25582-25592	3.9	9
205	Large scale validation of a new non-invasive and non-contact bilirubinometer in neonates with risk factors. <i>Scientific Reports</i> , 2020 , 10, 11149	4.9	1
204	Spectroscopic Studies on the Biomolecular Recognition of Toluidine Blue: Key Information Towards Development of a Non-Contact, Non-Invasive Device for Oral Cancer Detection. <i>Frontiers in Oncology</i> , 2020 , 10, 529132	5.3	2
203	Wide bandgap semiconductor-based novel nanohybrid for potential antibacterial activity: ultrafast spectroscopy and computational studies.. <i>RSC Advances</i> , 2020 , 10, 38890-38899	3.7	7
202	Nonthermal Atmospheric Plasma-Induced Cellular Envelope Damage of Staphylococcus aureus and Candida albicans Biofilms: Spectroscopic and Biochemical Investigations. <i>IEEE Transactions on Plasma Science</i> , 2020 , 48, 2768-2776	1.3	1
201	Unprecedented Regio- and Stereoselective Synthesis of Pyrene-Grafted Dispiro[indoline-3,2'-pyrrolidine-3',3?-indolines]: Expedient Experimental and Theoretical Insights into Polar [3 + 2] Cycloaddition. <i>ACS Omega</i> , 2020 , 5, 24081-24094	3.9	7
200	Chromogenic-Functionalized Silica Nanoflower Composites for the Detection of Carbon Dioxide. <i>ACS Applied Nano Materials</i> , 2020 , 3, 4321-4328	5.6	4
199	Role of Nanomedicine in Redox Mediated Healing at Molecular Level. <i>Biomolecular Concepts</i> , 2019 , 10, 160-174	3.7	9
198	Selective and Fast Responsive Sensitized Micelle for Detection of Fluoride Level in Drinking Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 16355-16363	8.3	10
197	Surface Engineered ZnO-Humic/Citrate Interfaces: Photoinduced Charge Carrier Dynamics and Potential Application for Smart and Sustained Delivery of Zn Micronutrient. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 10920-10930	8.3	10

196	Exploration of interfacial dynamics in squaraine based nano hybrids for potential photodynamic action. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019 , 380, 111842	4.7	8
195	Modulation of Kinetic Pathways of Enzyme-Substrate Interaction in a Microfluidic Channel: Nanoscopic Water Dynamics as a Switch. <i>Chemistry - A European Journal</i> , 2019 , 25, 9728-9736	4.8	3
194	In situ measurement of temperature dependent picosecond resolved carrier dynamics in near infrared (NIR) sensitive device on action. <i>Review of Scientific Instruments</i> , 2019 , 90, 043909	1.7	5
193	Development of Highly Efficient Dual Sensor Based on Carbon Dots for Direct Estimation of Iron and Fluoride Ions in Drinking Water. <i>ChemistrySelect</i> , 2019 , 4, 4462-4471	1.8	6
192	Exciton dissociation in an NIR-active triohybrid nanocrystal leading to efficient generation of reactive oxygen species. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 10667-10676	3.6	2
191	Ultrafast electronic spectroscopy on the coupling of Stranski-Krastanov and submonolayer quantum dots for potential application in near infrared light harvesting. <i>Materials Research Express</i> , 2019 , 6, 085903	1.7	7
190	Nano MOF Entrapping Hydrophobic Photosensitizer for Dual-Stimuli-Responsive Unprecedented Therapeutic Action against Drug-Resistant Bacteria.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 1772-1780	4.1	27
189	Intricate modulation of interlayer coupling at the graphene oxide/MoSe2 interface: Application in time-dependent optics and device transport. <i>Physical Review B</i> , 2019 , 99,	3.3	10
188	Improvement of Photostability and NIR Activity of Cyanine Dye through Nano hybrid Formation: Key Information from Ultrafast Dynamical Studies. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 7550-7557	2.8	14
187	NaLiK, an self-developed device for rapid, reliable and simultaneous assessment of sodium, lithium and potassium for management of fluid balance and bipolar disorder in human subjects. <i>Journal of Analytical Atomic Spectrometry</i> , 2019 , 34, 1875-1881	3.7	1
186	Strain relaxation in InAs quantum dots through capping layer variation and its impact on the ultrafast carrier dynamics. <i>Semiconductor Science and Technology</i> , 2019 , 34, 095017	1.8	6
185	A combined experimental and computational study on a nano hybrid material for potential application in NIR photocatalysis. <i>Applied Catalysis A: General</i> , 2019 , 583, 117124	5.1	8
184	Unraveling the Role of Monoolein in Fluidity and Dynamical Response of a Mixed Cationic Lipid Bilayer. <i>Langmuir</i> , 2019 , 35, 4682-4692	4	13
183	Manganese neurotoxicity: nano-oxide compensates for ion-damage in mammals. <i>Biomaterials Science</i> , 2019 , 7, 4491-4502	7.4	11
182	Enhanced Water Stability and Photoresponsivity in Metal-Organic Framework (MOF): A Potential Tool to Combat Drug-resistant Bacteria. <i>Scientific Reports</i> , 2019 , 9, 19372	4.9	33
181	Probing relaxation dynamics of a cationic lipid based non-viral carrier: a time-resolved fluorescence study.. <i>RSC Advances</i> , 2019 , 9, 35549-35558	3.7	5
180	Novel one pot synthesis and spectroscopic characterization of a folate-MnO nano hybrid for potential photodynamic therapeutic application.. <i>RSC Advances</i> , 2019 , 9, 30216-30225	3.7	7
179	Inversion of activity in DSSC for TiO2 and ZnO photo-anodes depending on the choice of sensitizer and carrier dynamics. <i>Journal of Luminescence</i> , 2019 , 207, 169-176	3.8	12

178	A Novel Whole Spectrum-Based Non-Invasive Screening Device for Neonatal Hyperbilirubinemia. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019 , 23, 2347-2353	7.2	9
177	Development of a photo-catalytic converter for potential use in the detoxification of Cr(VI) metal in water from natural resources. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 3674-3683	13	38
176	Ultrafast dynamics in co-sensitized photocatalysts under visible and NIR light irradiation. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 10418-10429	3.6	23
175	DNA-based fiber optic sensor for direct in-vivo measurement of oxidative stress. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 2194-2202	8.5	14
174	Bimetallic zeolitic imidazolate framework as an active excipient of curcumin under physiological condition. <i>Biomedical Physics and Engineering Express</i> , 2018 , 4, 055004	1.5	13
173	Modulation of Solvation and Molecular Recognition of a Lipid Bilayer under Dynamical Phase Transition. <i>ChemPhysChem</i> , 2018 , 19, 2709-2716	3.2	8
172	Photo-triggered destabilization of nanoscopic vehicles by dihydroindolizine for enhanced anticancer drug delivery in cervical carcinoma. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 162, 202-211	6	22
171	Halide-Modulated Functionality of Wide Band Gap Zinc Oxide Semiconductor Nanoparticle. <i>ChemistrySelect</i> , 2018 , 3, 6382-6393	1.8	4
170	A thirty-fold photoluminescence enhancement induced by secondary ligands in monolayer protected silver clusters. <i>Nanoscale</i> , 2018 , 10, 20033-20042	7.7	40
169	Spectroscopic Studies on Dual Role of Natural Flavonoids in Detoxification of Lead Poisoning: Bench-to-Bedside Preclinical Trial. <i>ACS Omega</i> , 2018 , 3, 15975-15987	3.9	18
168	NIR-Light-Active ZnO-Based Nanohybrids for Bacterial Biofilm Treatment. <i>ACS Omega</i> , 2018 , 3, 10877-10885	3.9	24
167	Ultrafast dynamics-driven biomolecular recognition where fast activities dictate slow events. <i>Journal of Biosciences</i> , 2018 , 43, 485-498	2.3	
166	A novel nanohybrid for cancer theranostics: folate sensitized FeO nanoparticles for colorectal cancer diagnosis and photodynamic therapy. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 3927-3939	7.3	30
165	A sensitive fluorescent probe for the polar solvation dynamics at protein-surfactant interfaces. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 12237-12245	3.6	14
164	Essential Dynamics of an Effective Phototherapeutic Drug in a Nanoscopic Delivery Vehicle: Psoralen in Ethosomes for Biofilm Treatment. <i>ACS Omega</i> , 2017 , 2, 1850-1857	3.9	16
163	Development and validation of a noncontact spectroscopic device for hemoglobin estimation at point-of-care. <i>Journal of Biomedical Optics</i> , 2017 , 22, 55006	3.5	11
162	Ultrafast spectroscopy on DNA-cleavage by endonuclease in molecular crowding. <i>International Journal of Biological Macromolecules</i> , 2017 , 103, 395-402	7.9	11
161	Specific DNA sequences allosterically enhance protein-protein interaction in a transcription factor through modulation of protein dynamics: implications for specificity of gene regulation. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 14781-14792	3.6	1

160	Combating fuel-driven aqua-pollution using Benzomagnets RSC Advances, 2017 , 7, 12277-12282	3.7	1
159	In-Situ Hydrothermal Synthesis of Bi-BiOCO Heterojunction Photocatalyst with Enhanced Visible Light Photocatalytic Activity. Nano-Micro Letters, 2017 , 9, 18	19.5	35
158	Sensitized ZnO nanorod assemblies to detect heavy metal contaminated phytomedicines: spectroscopic and simulation studies. Physical Chemistry Chemical Physics, 2017 , 19, 2503-2513	3.6	22
157	Digital Camera-Based Spectrometry for the Development of Point-of-Care Anemia Detection on Ultra-Low Volume Whole Blood Sample. IEEE Sensors Journal, 2017 , 17, 7149-7156	4	9
156	Can a light harvesting material be always common in photocatalytic and photovoltaic applications?. Materials Chemistry and Physics, 2017 , 200, 70-77	4.4	8
155	Development of Highly Selective and Efficient Prototype Sensor for Potential Application in Environmental Mercury Pollution Monitoring. Water, Air, and Soil Pollution, 2017 , 228, 1	2.6	21
154	Enhanced charge separation through modulation of defect-state in wide band-gap semiconductor for potential photocatalysis application: Ultrafast spectroscopy and computational studies. Journal of Photochemistry and Photobiology A: Chemistry, 2017 , 332, 391-398	4.7	28
153	Three-in-one approach towards efficient organic dye-sensitized solar cells: aggregation suppression, panchromatic absorption and resonance energy transfer. Beilstein Journal of Nanotechnology, 2017 , 8, 1705-1713	3	14
152	Therapeutic Potential of Surface Functionalized Mn3O4 Nanoparticles Against Chronic Liver Diseases in Murine Model. Materials Focus, 2017 , 6, 280-289		6
151	Facile synthesis of reduced graphene oxide-gold nanohybrid for potential use in industrial waste-water treatment. Science and Technology of Advanced Materials, 2016 , 17, 375-386	7.1	42
150	Allosteric Inhibitory Molecular Recognition of a Photochromic Dye by a Digestive Enzyme: Dihydroindolizine makes Chymotrypsin Photo-responsive. Scientific Reports, 2016 , 6, 34399	4.9	20
149	Direct observation of electronic transition-plasmon coupling for enhanced electron injection in dye-sensitized solar cells. RSC Advances, 2016 , 6, 98753-98760	3.7	11
148	Carbonate Doping in TiO2 Microsphere: The Key Parameter Influencing Others for Efficient Dye Sensitized Solar Cell. Scientific Reports, 2016 , 6, 23209	4.9	11
147	Resveratrol-ZnO nanohybrid enhanced anti-cancerous effect in ovarian cancer cells through ROS. RSC Advances, 2016 , 6, 105607-105617	3.7	8
146	Heterodimerization at the dye sensitized TiO2 surface: an efficient strategy toward quick removal of water contaminants. Photochemical and Photobiological Sciences, 2016 , 15, 920-7	4.2	4
145	Ultrafast differential flexibility of Cro-protein binding domains of two operator DNAs with different sequences. Physical Chemistry Chemical Physics, 2016 , 18, 17983-90	3.6	3
144	Ultrafast photoinduced carrier dynamics at ZnO nanohybrid interfaces for light-harvesting applications. Nanotechnology Reviews, 2016 , 5,	6.3	12
143	Molecular recognition of genomic DNA in a condensate with a model surfactant for potential gene-delivery applications. Journal of Photochemistry and Photobiology B: Biology, 2016 , 157, 105-12	6.7	14

142	Modulation of Ultrafast Conformational Dynamics in Allosteric Interaction of Gal Repressor Protein with Different Operator DNA Sequences. <i>ChemBioChem</i> , 2016 , 17, 605-13	3.8	10
141	Photoinduced Dynamics and Toxicity of a Cancer Drug in Proximity of Inorganic Nanoparticles under Visible Light. <i>ChemPhysChem</i> , 2016 , 17, 270-7	3.2	18
140	Citrate functionalized MnO in nanotherapy of hepatic fibrosis by oral administration. <i>Future Science OA</i> , 2016 , 2, FSO146	2.7	29
139	Binding interaction of a gamma-aminobutyric acid derivative with serum albumin: an insight by fluorescence and molecular modeling analysis. <i>SpringerPlus</i> , 2016 , 5, 1121		16
138	Nanosurface Energy Transfer Based Highly Selective and Ultrasensitive Turn on Fluorescence Mercury Sensor. <i>ACS Sensors</i> , 2016 , 1, 789-797	9.2	40
137	DNA Biomaterial Based Fiber Optic Sensor: Characterization and Application for Monitoring in situ Mercury Pollution. <i>ChemistrySelect</i> , 2016 , 1, 2916-2922	1.8	8
136	Orientation of tyrosine side chain in neurotoxic Aβ differs in two different secondary structures of the peptide. <i>Royal Society Open Science</i> , 2016 , 3, 160112	3.3	6
135	Efficient red luminescence from organic-soluble Au clusters by ligand structure modification. <i>Nanoscale</i> , 2015 , 7, 14305-15	7.7	36
134	Nano surface engineering of Mn ₂ O ₃ for potential light-harvesting application. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 8200-8211	7.1	53
133	Direct Observation of Coupling between Structural Fluctuation and Ultrafast Hydration Dynamics of Fluorescent Probes in Anionic Micelles. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 10849-57	3.4	30
132	Sensitization of an endogenous photosensitizer: electronic spectroscopy of riboflavin in the proximity of semiconductor, insulator, and metal nanoparticles. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 4162-9	2.8	18
131	Direct observation of key photoinduced dynamics in a potential nano-delivery vehicle of cancer drugs. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 166-77	3.6	36
130	Safe and symptomatic medicinal use of surface-functionalized Mn ₃ O ₄ nanoparticles for hyperbilirubinemia treatment in mice. <i>Nanomedicine</i> , 2015 , 10, 2349-63	5.6	30
129	Modulation of stability and functionality of a phyto-antioxidant by weakly interacting metal ions: curcumin in aqueous solution. <i>RSC Advances</i> , 2015 , 5, 102516-102524	3.7	30
128	Enhanced Charge Separation and FRET at Heterojunctions between Semiconductor Nanoparticles and Conducting Polymer Nanofibers for Efficient Solar Light Harvesting. <i>Scientific Reports</i> , 2015 , 5, 17313-9	4.9	68
127	Direct Observation of Kinetic Pathways of Biomolecular Recognition. <i>Chemistry - A European Journal</i> , 2015 , 21, 16172-7	4.8	9
126	Development and optimization of a noncontact optical device for online monitoring of jaundice in human subjects. <i>Journal of Biomedical Optics</i> , 2015 , 20, 067001	3.5	13
125	Ultrafast FRET at fiber tips: Potential applications in sensitive remote sensing of molecular interaction. <i>Sensors and Actuators B: Chemical</i> , 2015 , 210, 381-388	8.5	16

124	Dynamical perspective of protein-DNA interaction. <i>Biomolecular Concepts</i> , 2014 , 5, 21-43	3.7	7
123	Luminescent AgAu Alloy Clusters Derived from Ag Nanoparticles [Manifestations of Tunable AuAu Metallophilic Interactions. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 908-916	2.3	19
122	Unprecedented catalytic activity of Mn3O4 nanoparticles: potential lead of a sustainable therapeutic agent for hyperbilirubinemia. <i>RSC Advances</i> , 2014 , 4, 5075	3.7	27
121	Luminescent iron clusters in solution. <i>Nanoscale</i> , 2014 , 6, 1848-54	7.7	22
120	Vitamin B2 in nanoscopic environments under visible light: photosensitized antioxidant or phototoxic drug?. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 3934-43	2.8	21
119	Surface Engineering for Controlled Nanocatalysis: Key Dynamical Events from Ultrafast Electronic Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 23434-23442	3.8	5
118	Impact of metal ions in porphyrin-based applied materials for visible-light photocatalysis: key information from ultrafast electronic spectroscopy. <i>Chemistry - A European Journal</i> , 2014 , 20, 10475-83	4.8	32
117	Spark spectrometry of toxic smokes: towards a portable, inexpensive, and high-resolution environment monitoring instrument. <i>Clean Technologies and Environmental Policy</i> , 2014 , 16, 1703-1712	4.3	4
116	Role of caffeine in DNA recognition of a potential food-carcinogen benzo[a]pyrene and UVA induced DNA damage. <i>Journal of Molecular Recognition</i> , 2014 , 27, 510-20	2.6	3
115	Ultrafast dynamics of solvation and charge transfer in a DNA-based biomaterial. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 1395-402	4.5	19
114	Engineering FRET-Based Solar Cells: Manipulation of Energy and Electron Transfer Processes in a Light Harvesting Assembly. <i>Springer Series in Materials Science</i> , 2014 , 267-318	0.9	3
113	Nanostructure, solvation dynamics, and nanotemplating of plasmonically active SERS substrate in reverse vesicles. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	0
112	A potential carcinogenic pyrene derivative under Förster resonance energy transfer to various energy acceptors in nanoscopic environments. <i>ChemPhysChem</i> , 2013 , 14, 3581-93	3.2	3
111	Molecular recognition of a model globular protein apomyoglobin by synthetic receptor cyclodextrin: effect of fluorescence modification of the protein and cavity size of the receptor in the interaction. <i>Journal of Molecular Recognition</i> , 2013 , 26, 568-77	2.6	4
110	Role of central metal ions in hematoporphyrin-functionalized titania in solar energy conversion dynamics. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 18562-70	3.6	32
109	Modulation of environmental dynamics at the active site and activity of an enzyme under nanoscopic confinement: Subtilisin Carlsberg in anionic AOT reverse micelle. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 11565-74	3.4	12
108	Protein-cofactor binding and ultrafast electron transfer in riboflavin binding protein under the spatial confinement of nanoscopic reverse micelles. <i>Journal of Molecular Recognition</i> , 2013 , 26, 59-66	2.6	13
107	Ultrafast interfacial solvation dynamics in specific protein DNA recognition. <i>Biochimie</i> , 2013 , 95, 2168-76	4.6	8

106	Rational surface modification of Mn ₃ O ₄ nanoparticles to induce multiple photoluminescence and room temperature ferromagnetism. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 1885	7.1	62
105	UVA radiation induced ultrafast electron transfer from a food carcinogen benzo[a]pyrene to organic molecules, biological macromolecules, and inorganic nano structures. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 3726-37	3.4	5
104	Picosecond-resolved solvent reorganization and energy transfer in biological and model cavities. <i>Biochimie</i> , 2013 , 95, 1127-35	4.6	14
103	Modulation of defect-mediated energy transfer from ZnO nanoparticles for the photocatalytic degradation of bilirubin. <i>Beilstein Journal of Nanotechnology</i> , 2013 , 4, 714-25	3	45
102	Role of solvation dynamics in excited state proton transfer of 1-naphthol in nanoscopic water clusters formed in a hydrophobic solvent. <i>Photochemistry and Photobiology</i> , 2012 , 88, 851-9	3.6	26
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