

# Samir Kumar Pal

## List of Publications by Year in descending order

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258  
papers

9,981  
citations

50170

46  
h-index

46693

89  
g-index

269  
all docs

269  
docs citations

269  
times ranked

8953  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics of Water in Biological Recognition. <i>Chemical Reviews</i> , 2004, 104, 2099-2124.	23.0	720
2	Biological water at the protein surface: Dynamical solvation probed directly with femtosecond resolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 1763-1768.	3.3	528
3	Biological Water: Femtosecond Dynamics of Macromolecular Hydration. <i>Journal of Physical Chemistry B</i> , 2002, 106, 12376-12395.	1.2	468
4	Copper Quantum Clusters in Protein Matrix: Potential Sensor of Pb <sup>2+</sup> Ion. <i>Analytical Chemistry</i> , 2011, 83, 9676-9680.	3.2	311
5	Biological water: A critique. <i>Chemical Physics Letters</i> , 2011, 503, 1-11.	1.2	259
6	Luminescent quantum clusters of gold in transferrin family protein, lactoferrin exhibiting FRET. <i>Nanoscale</i> , 2010, 2, 2769.	2.8	252
7	Bright, NIR-Emitting Au <sub>23</sub> from Au <sub>25</sub> : Characterization and Applications Including Biolabeling. <i>Chemistry - A European Journal</i> , 2009, 15, 10110-10120.	1.7	250
8	Luminescent Quantum Clusters of Gold in Bulk by Albumin-Induced Core Etching of Nanoparticles: Metal Ion Sensing, Metal-Enhanced Luminescence, and Biolabeling. <i>Chemistry - A European Journal</i> , 2010, 16, 10103-10112.	1.7	246
9	Water at DNA surfaces: Ultrafast dynamics in minor groove recognition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 8113-8118.	3.3	233
10	Intramolecular Charge Transfer Processes in Confined Systems. Nile Red in Reverse Micelles. <i>Journal of Physical Chemistry B</i> , 1997, 101, 10221-10225.	1.2	209
11	Femtosecond dynamics of rubredoxin: Tryptophan solvation and resonance energy transfer in the protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 13-18.	3.3	193
12	Two distinct fluorescent quantum clusters of gold starting from metallic nanoparticles by pH-dependent ligand etching. <i>Nano Research</i> , 2008, 1, 333-340.	5.8	169
13	Hydration at the surface of the protein Monellin: Dynamics with femtosecond resolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 10964-10969.	3.3	151
14	Quantum Clusters of Gold Exhibiting FRET. <i>Journal of Physical Chemistry C</i> , 2008, 112, 14324-14330.	1.5	127
15	Nonlinear partial differential equations and applications: Ultrafast surface hydration dynamics and expression of protein functionality: Chymotrypsin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 15297-15302.	3.3	111
16	Site- and sequence-selective ultrafast hydration of DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 13746-13751.	3.3	109
17	Solvation Dynamics of DCM in Human Serum Albumin. <i>Journal of Physical Chemistry B</i> , 2001, 105, 1438-1441.	1.2	103
18	Photosensitive excited state dynamics in ZnO-Au nanocomposites and their implications in photocatalysis and dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12488.	1.3	96

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19	Dynamics in the DNA Recognition by DAPI: Exploration of the Various Binding Modes. Journal of Physical Chemistry B, 2008, 112, 1016-1021.	1.2	95
20	Solvation Dynamics of DCM in Lipid. Journal of Physical Chemistry B, 2000, 104, 4529-4531.	1.2	93
21	Enhanced Charge Separation and FRET at Heterojunctions between Semiconductor Nanoparticles and Conducting Polymer Nanofibers for Efficient Solar Light Harvesting. Scientific Reports, 2015, 5, 17313.	1.6	87
22	Femtosecond Studies of Protein-DNA Binding and Dynamics: Histone I. ChemPhysChem, 2001, 2, 219-227.	1.0	84
23	Protein-Directed Synthesis of NIR-Emitting, Tunable HgS Quantum Dots and their Applications in Metal-Ion Sensing. Small, 2012, 8, 3175-3184.	5.2	78
24	Rational surface modification of Mn <sub>3</sub> O <sub>4</sub> nanoparticles to induce multiple photoluminescence and room temperature ferromagnetism. Journal of Materials Chemistry C, 2013, 1, 1885.	2.7	76
25	Enhanced Water Stability and Photoresponsivity in Metal-Organic Framework (MOF): A Potential Tool to Combat Drug-resistant Bacteria. Scientific Reports, 2019, 9, 19372.	1.6	76
26	Solvation dynamics of DCM in micelles. Chemical Physics Letters, 2000, 327, 91-96.	1.2	74
27	Fluorescence Relaxation Dynamics of Acridine Orange in Nanosized Micellar Systems and DNA. Journal of Physical Chemistry B, 2007, 111, 4189-4199.	1.2	72
28	Solvation dynamics in organized assemblies, 4-aminophthalimide in micelles. Journal of Molecular Liquids, 1998, 77, 121-129.	2.3	70
29	Excited-State Proton Transfer of 1-Naphthol in Micelles. Journal of Physical Chemistry A, 1998, 102, 9710-9714.	1.1	69
30	Solvation Dynamics of Coumarin 480 in Sol-Gel Matrix. Journal of Physical Chemistry B, 2000, 104, 2613-2616.	1.2	68
31	Temperature-Dependent Simultaneous Ligand Binding in Human Serum Albumin. Journal of Physical Chemistry B, 2008, 112, 4884-4891.	1.2	66
32	Nano surface engineering of Mn <sub>2</sub> O <sub>3</sub> for potential light-harvesting application. Journal of Materials Chemistry C, 2015, 3, 8200-8211.	2.7	65
33	A thirty-fold photoluminescence enhancement induced by secondary ligands in monolayer protected silver clusters. Nanoscale, 2018, 10, 20033-20042.	2.8	65
34	Spectroscopic studies on the effect of temperature on pH-induced folded states of human serum albumin. Journal of Photochemistry and Photobiology B: Biology, 2008, 90, 69-77.	1.7	62
35	Photophysical Processes of Ethidium Bromide in Micelles and Reverse Micelles. Journal of Physical Chemistry B, 1998, 102, 11017-11023.	1.2	61
36	Ultrafast decay and hydration dynamics of DNA bases and mimics. Chemical Physics Letters, 2002, 363, 57-63.	1.2	59

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37	Hematoporphyrinâ€“ZnO Nanohybrids: Twin Applications in Efficient Visible-Light Photocatalysis and Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2012, 4, 7027-7035.	4.0	59
38	Hydration in Protein Folding:â€‰ Thermal Unfolding/Refolding of Human Serum Albumin. Langmuir, 2007, 23, 10224-10229.	1.6	58
39	Solvation dynamics of 4-(dicyanomethylene)-2-methyl-6-(p-dimethylaminostyryl)-4H-pyran (DCM) in a microemulsion. Chemical Physics Letters, 1999, 312, 178-184.	1.2	57
40	Photophysical Processes of Merocyanine 540 in Solutions and in Organized Media. Journal of Physical Chemistry A, 1999, 103, 8156-8159.	1.1	57
41	Modulation of defect-mediated energy transfer from ZnO nanoparticles for the photocatalytic degradation of bilirubin. Beilstein Journal of Nanotechnology, 2013, 4, 714-725.	1.5	53
42	Nanosurface Energy Transfer Based Highly Selective and Ultrasensitive â€œTurn onâ€•Fluorescence Mercury Sensor. ACS Sensors, 2016, 1, 789-797.	4.0	53
43	Facile synthesis of reduced graphene oxideâ€“gold nanohybrid for potential use in industrial waste-water treatment. Science and Technology of Advanced Materials, 2016, 17, 375-386.	2.8	51
44	Dual-Sensitization via Electron and Energy Harvesting in CdTe Quantum Dots Decorated ZnO Nanorod-Based Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2012, 116, 14248-14256.	1.5	50
45	Sensitization of nontoxic MOF for their potential drug delivery application against microbial infection. Inorganica Chimica Acta, 2021, 523, 120381.	1.2	50
46	Caging enzyme function: Î±-chymotrypsin in reverse micelle. Chemical Physics Letters, 2004, 387, 221-226.	1.2	48
47	Modulation of Dynamics and Reactivity of Water in Reverse Micelles of Mixed Surfactants. Journal of Physical Chemistry B, 2008, 112, 12946-12953.	1.2	48
48	Photoinduced electron transfer between dimethylaniline and oxazine 1 in micelles. Chemical Physics, 1999, 249, 63-71.	0.9	46
49	Light Harvesting Semiconductor Coreâ€“Shell Nanocrystals: Ultrafast Charge Transport Dynamics of CdSeâ€“ZnS Quantum Dots. Journal of Physical Chemistry C, 2010, 114, 627-632.	1.5	46
50	Aggregated CdS Quantum Dots:â€“ Host of Biomolecular Ligands. Journal of Physical Chemistry B, 2006, 110, 24403-24409.	1.2	45
51	Resonance energy transfer and ligand binding studies on pH-induced folded states of human serum albumin. Journal of Photochemistry and Photobiology B: Biology, 2008, 90, 187-197.	1.7	45
52	Dynamics of light harvesting in ZnO nanoparticles. Nanotechnology, 2010, 21, 265703.	1.3	45
53	Citrate functionalized Mn<sub>3</sub>O<sub>4</sub> in nanotherapy of hepatic fibrosis by oral administration. Future Science OA, 2016, 2, FSO146.	0.9	45
54	A novel nanohybrid for cancer theranostics: folate sensitized Fe<sub>2</sub>O<sub>3</sub> nanoparticles for colorectal cancer diagnosis and photodynamic therapy. Journal of Materials Chemistry B, 2017, 5, 3927-3939.	2.9	45

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55	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.	2.3	45
56	Ligand-DNA interaction in a nanocage of reverse micelle. <i>Biopolymers</i> , 2006, 83, 675-686.	1.2	44
57	Ultrafast energy transfer from 3-mercaptopropionic acid-capped CdSe/ZnS QDs to dye-labelled DNA. <i>Chemical Physics Letters</i> , 2008, 463, 160-165.	1.2	44
58	Functionalization of manganite nanoparticles and their interaction with biologically relevant small ligands: Picosecond time-resolved FRET studies. <i>Nanoscale</i> , 2010, 2, 2704.	2.8	44
59	Direct observation of key photoinduced dynamics in a potential nano-delivery vehicle of cancer drugs. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 166-177.	1.3	44
60	Ultrafast dynamics in a nanocage of enzymes: Solvation and fluorescence resonance energy transfer in reverse micelles. <i>Journal of Colloid and Interface Science</i> , 2005, 290, 462-474.	5.0	43
61	Temperature-Dependent Hydration at Micellar Surface: A Activation Energy Barrier Crossing Model Revisited. <i>Journal of Physical Chemistry B</i> , 2007, 111, 7577-7583.	1.2	43
62	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.	5.2	42
63	Role of hydration on the functionality of a proteolytic enzyme $\alpha$ -chymotrypsin under crowded environment. <i>Biochimie</i> , 2011, 93, 1424-1433.	1.3	41
64	Efficient red luminescence from organic-soluble Au <sub>25</sub> clusters by ligand structure modification. <i>Nanoscale</i> , 2015, 7, 14305-14315.	2.8	40
65	Interactions of Nile Blue with Micelles, Reverse Micelles and a Genomic DNA. <i>Journal of Fluorescence</i> , 2008, 18, 423-432.	1.3	38
66	Conformational Dynamics at the Active Site of $\alpha$ -Chymotrypsin and Enzymatic Activity. <i>Langmuir</i> , 2008, 24, 8163-8168.	1.6	38
67	Safe and symptomatic medicinal use of surface-functionalized Mn <sub>3</sub> O <sub>4</sub> nanoparticles for hyperbilirubinemia treatment in mice. <i>Nanomedicine</i> , 2015, 10, 2349-2363.	1.7	38
68	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.	1.7	38
69	In-Situ Hydrothermal Synthesis of Bi-Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> Heterojunction Photocatalyst with Enhanced Visible Light Photocatalytic Activity. <i>Nano-Micro Letters</i> , 2017, 9, 18.	14.4	38
70	Dynamics of Ordered Water in Interfacial Enzyme Recognition: Bovine Pancreatic Phospholipase A2. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 60-63.	7.2	37
71	Emergence of Multicolor Photoluminescence in La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2012, 116, 25623-25629.	1.5	37
72	NIR-Light-Active ZnO-Based Nanohybrids for Bacterial Biofilm Treatment. <i>ACS Omega</i> , 2018, 3, 10877-10885.	1.6	37

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73	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, 10475-10483.	1.7	36
74	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.	3.9	36
75	Role of central metal ions in hematoporphyrin-functionalized titania in solar energy conversion dynamics. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 18562.	1.3	35
76	Unprecedented catalytic activity of Mn <sub>3</sub> O <sub>4</sub> nanoparticles: potential lead of a sustainable therapeutic agent for hyperbilirubinemia. <i>RSC Advances</i> , 2014, 4, 5075.	1.7	35
77	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, 10849-10857.	1.2	34
78	Direct Conjugation of Semiconductor Nanocrystals to a Globular Protein to Study Protein-Folding Intermediates. <i>Journal of Physical Chemistry B</i> , 2007, 111, 12294-12298.	1.2	33
79	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.	1.6	33
80	Unraveling the Role of Monoolein in Fluidity and Dynamical Response of a Mixed Cationic Lipid Bilayer. <i>Langmuir</i> , 2019, 35, 4682-4692.	1.6	33
81	Ultrafast charge transfer and solvation of DNA minor groove binder: Hoechst 33258 in restricted environments. <i>Chemical Physics Letters</i> , 2006, 432, 257-262.	1.2	32
82	Enhanced charge separation through modulation of defect-state in wide band-gap semiconductor for potential photocatalysis application: Ultrafast spectroscopy and computational studies. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 332, 391-398.	2.0	31
83	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.	2.5	31
84	Interaction of Hoechst 33258 and Ethidium with Histone <sup>1</sup> -DNA Condensates. <i>Biomacromolecules</i> , 2007, 8, 3332-3339.	2.6	30
85	Protein-assisted synthesis route of metal nanoparticles: exploration of key chemistry of the biomolecule. <i>Journal of Nanoparticle Research</i> , 2011, 13, 5485-5495.	0.8	30
86	Ultrafast dynamics in co-sensitized photocatalysts under visible and NIR light irradiation. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 10418-10429.	1.3	29
87	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.	2.4	29
88	Nano-MOFs as targeted drug delivery agents to combat antibiotic-resistant bacterial infections. <i>Royal Society Open Science</i> , 2020, 7, 200959.	1.1	29
89	Simultaneous Binding of Minor Groove Binder and Intercalator to Dodecamer DNA: Importance of Relative Orientation of Donor and Acceptor in FRET. <i>Journal of Physical Chemistry B</i> , 2007, 111, 5047-5052.	1.2	28
90	Luminescent iron clusters in solution. <i>Nanoscale</i> , 2014, 6, 1848-1854.	2.8	28

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91	Vitamin B2 in Nanoscopic Environments under Visible Light: Photosensitized Antioxidant or Phototoxic Drug?. <i>Journal of Physical Chemistry A</i> , 2014, 118, 3934-3943.	1.1	28
92	Direct Observation of Essential DNA Dynamics: Melting and Reformation of the DNA Minor Groove. <i>Journal of Physical Chemistry B</i> , 2007, 111, 10833-10838.	1.2	26
93	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, 851-859.	1.3	26
94	Sensitized ZnO nanorod assemblies to detect heavy metal contaminated phytochemicals: spectroscopic and simulation studies. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 2503-2513.	1.3	26
95	Order, Disorder, and Reorder State of Lysozyme: Aggregation Mechanism by Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2020, 124, 50-60.	1.2	26
96	Toward an Alternative Intrinsic Probe for Spectroscopic Characterization of a Protein. <i>Journal of Physical Chemistry B</i> , 2010, 114, 15236-15243.	1.2	25
97	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.	2.1	25
98	Combating Essential Metal Toxicity: Key Information from Optical Spectroscopy. <i>ACS Omega</i> , 2020, 5, 15666-15672.	1.6	25
99	Enzyme functionality and solvation of Subtilisin Carlsberg: from hours to femtoseconds. <i>Chemical Physics Letters</i> , 2004, 387, 209-215.	1.2	24
100	Photoinduced Dynamics and Toxicity of a Cancer Drug in Proximity of Inorganic Nanoparticles under Visible Light. <i>ChemPhysChem</i> , 2016, 17, 270-277.	1.0	24
101	Allosteric Inhibitory Molecular Recognition of a Photochromic Dye by a Digestive Enzyme: Dihydroindolizine makes $\alpha$ -chymotrypsin Photo-responsive. <i>Scientific Reports</i> , 2016, 6, 34399.	1.6	24
102	Improvement of Photostability and NIR Activity of Cyanine Dye through Nanohybrid Formation: Key Information from Ultrafast Dynamical Studies. <i>Journal of Physical Chemistry A</i> , 2019, 123, 7550-7557.	1.1	24
103	Intramolecular Charge Transfer near a Hydrophobic Surface. 2,6-p-Toluidinonaphthalene Sulfonate in a Reverse Micelle.. <i>Analytical Sciences</i> , 1998, 14, 199-202.	0.8	23
104	Activity of Subtilisin Carlsberg in macromolecular crowding. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2007, 86, 199-206.	1.7	23
105	Luminescent AgAu Alloy Clusters Derived from Ag Nanoparticles $\alpha$ -Manifestations of Tunable Au <sup>I</sup> -Cu <sup>I</sup> Metallophilic Interactions. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 908-916.	1.0	23
106	Sequence Dependent Ultrafast Electron Transfer of Nile Blue in Oligonucleotides. <i>Journal of Fluorescence</i> , 2009, 19, 353-361.	1.3	22
107	Development of Highly Selective and Efficient Prototype Sensor for Potential Application in Environmental Mercury Pollution Monitoring. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	1.1	22
108	Redox nanomedicine ameliorates chronic kidney disease (CKD) by mitochondrial reconditioning in mice. <i>Communications Biology</i> , 2021, 4, 1013.	2.0	22



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109	Slow water dynamics at the surface of macromolecular assemblies of different morphologies. <i>Soft Matter</i> , 2010, 6, 5971.	1.2	21
110	Probing the Interior of Self-Assembled Caffeine Dimer at Various Temperatures. <i>Journal of Fluorescence</i> , 2012, 22, 753-769.	1.3	21
111	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, 4162-4169.	1.1	21
112	Solvation Dynamics of DCM in Dipalmitoyl Phosphatidylcholine Lipid. <i>Tetrahedron</i> , 2000, 56, 6999-7002.	1.0	20
113	Ultrafast Dynamics of Solvation and Charge Transfer in a DNA-Based Biomaterial. <i>Chemistry - an Asian Journal</i> , 2014, 9, 1395-1402.	1.7	20
114	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.	1.2	20
115	A sensitive fluorescent probe for the polar solvation dynamics at protein-surfactant interfaces. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 12237-12245.	1.3	20
116	Oral drug delivery using a polymeric nanocarrier: chitosan nanoparticles in the delivery of rifampicin. <i>Materials Advances</i> , 2022, 3, 4622-4628.	2.6	20
117	Excited-State Solvation and Proton Transfer Dynamics of DAPI in Biomimetics and Genomic DNA. <i>Journal of Physical Chemistry A</i> , 2008, 112, 7314-7320.	1.1	19
118	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.	1.4	19
119	Ultrafast photoinduced carrier dynamics at ZnO nanohybrid interfaces for light-harvesting applications. <i>Nanotechnology Reviews</i> , 2016, 5, .	2.6	19
120	Development and validation of a noncontact spectroscopic device for hemoglobin estimation at point-of-care. <i>Journal of Biomedical Optics</i> , 2017, 22, 055006.	1.4	19
121	Tetracycline Encapsulated in Au Nanoparticle-Decorated ZnO Nanohybrids for Enhanced Antibacterial Activity. <i>ACS Applied Nano Materials</i> , 2022, 5, 4484-4492.	2.4	19
122	Ultrafast surface solvation dynamics and functionality of an enzyme $\hat{\pm}$ -chymotrypsin upon interfacial binding to a cationic micelle. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2005, 79, 67-78.	1.7	18
123	Direct observation of protein folding in nanoenvironments using a molecular ruler. <i>Biophysical Chemistry</i> , 2006, 123, 40-48.	1.5	18
124	Picosecond to nanosecond reorganization of water in AOT/lecithin mixed reverse micelles of different morphology. <i>Chemical Physics Letters</i> , 2008, 452, 99-104.	1.2	18
125	Temperature-dependent femtosecond-resolved hydration dynamics of water in aqueous guanidinium hydrochloride solution. <i>Photochemical and Photobiological Sciences</i> , 2009, 8, 1441-1447.	1.6	18
126	Simultaneous binding of anti-tuberculosis and anti-thrombosis drugs to a human transporter protein: A FRET study. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2011, 103, 153-158.	1.7	18



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127	Essential Dynamics of an Effective Phototherapeutic Drug in a Nanoscopic Delivery Vehicle: Psoralen in Ethosomes for Biofilm Treatment. ACS Omega, 2017, 2, 1850-1857.	1.6	18
128	DNA-based fiber optic sensor for direct in-vivo measurement of oxidative stress. Sensors and Actuators B: Chemical, 2018, 255, 2194-2202.	4.0	18
129	Role of Nanomedicine in Redox Mediated Healing at Molecular Level. Biomolecular Concepts, 2019, 10, 160-174.	1.0	18
130	Novel one pot synthesis and spectroscopic characterization of a folate-Mn <sub>3</sub> O <sub>4</sub> nanohybrid for potential photodynamic therapeutic application. RSC Advances, 2019, 9, 30216-30225.	1.7	18
131	Direct observation of DNA condensation in a nano-cage by using a molecular ruler. Chemical Physics Letters, 2005, 408, 366-370.	1.2	17
132	Ultrafast FRET at fiber tips: Potential applications in sensitive remote sensing of molecular interaction. Sensors and Actuators B: Chemical, 2015, 210, 381-388.	4.0	17
133	Manganese neurotoxicity: nano-oxide compensates for ion-damage in mammals. Biomaterials Science, 2019, 7, 4491-4502.	2.6	17
134	Inversion of activity in DSSC for TiO <sub>2</sub> and ZnO photo-anodes depending on the choice of sensitizer and carrier dynamics. Journal of Luminescence, 2019, 207, 169-176.	1.5	17
135	A Novel Whole Spectrum-Based Non-Invasive Screening Device for Neonatal Hyperbilirubinemia. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 2347-2353.	3.9	17
136	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. ACS Omega, 2020, 5, 25582-25592.	1.6	17
137	Nanoceutical Fabric Prevents COVID-19 Spread through Expelled Respiratory Droplets: A Combined Computational, Spectroscopic, and Antimicrobial Study. ACS Applied Bio Materials, 2021, 4, 5471-5484.	2.3	17
138	Size and shape-dependent electron-hole relaxation dynamics in CdS nanocrystals. Optical Materials, 2007, 29, 1310-1320.	1.7	16
139	Solvation dynamics of LDS 750 in micelles, reverse micelles and proteins. Chemical Physics Letters, 2008, 451, 237-242.	1.2	16
140	Validation and Divergence of the Activation Energy Barrier Crossing Transition at the AOT/Lecithin Reverse Micellar Interface. Journal of Physical Chemistry B, 2008, 112, 2859-2867.	1.2	16
141	Recognition of different DNA sequences by a DNA-binding protein alters protein dynamics differentially. FEBS Letters, 2012, 586, 258-262.	1.3	16
142	An improved microfluidics approach for monitoring real-time interaction profiles of ultrafast molecular recognition. Review of Scientific Instruments, 2012, 83, 043113.	0.6	16
143	Carbonate Doping in TiO <sub>2</sub> Microsphere: The Key Parameter Influencing Others for Efficient Dye Sensitized Solar Cell. Scientific Reports, 2016, 6, 23209.	1.6	16
144	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.	1.5	16

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145	Bimetallic zeolitic imidazolate framework as an active excipient of curcumin under physiological condition. <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 055004.	0.6	16
146	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.	1.6	16
147	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.	2.3	16
148	Ultrafast relaxation dynamics of a biologically relevant probe dansyl at the micellar surface. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2005, 78, 93-98.	1.7	15
149	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.	1.1	15
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