

# Pratik Sen

## List of Publications by Year in descending order

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94  
papers

1,993  
citations

236833

25  
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302012

39  
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94  
all docs

94  
docs citations

94  
times ranked

2045  
citing authors

#	ARTICLE	IF	CITATIONS
1	Search for the origin of synergistic solvation in methanol/chloroform mixture using optical Kerr effect spectroscopy. <i>Journal of Molecular Liquids</i> , 2022, 345, 117013.	2.3	8
2	Does Microsecond Active-Site Dynamics Primarily control Proteolytic Activity of Bromelain? Clues from Single Molecular Level Study with a Denaturant, a Stabilizer and a Macromolecular Crowder. <i>BBA Advances</i> , 2022, 2, 100041.	0.7	5
3	A Novel Quinoline Derivative for Selective and Sensitive Visual Detection of PPB Level Cu <sup>2+</sup> in an Aqueous Solution. <i>Current Analytical Chemistry</i> , 2022, 18, 196-203.	0.6	2
4	Tracking Wormlike Micelle Formation in Solution: Unique Insight through Fluorescence Correlation Spectroscopic Study. <i>Langmuir</i> , 2022, 38, 2486-2494.	1.6	6
5	Vibration-Assisted Intersystem Crossing in the Ultrafast Excited-State Relaxation Dynamics of Halocoumarins. <i>Journal of Physical Chemistry A</i> , 2022, 126, 1475-1485.	1.1	7
6	Macromolecular crowding: how shape and interaction affect the structure, function, conformational dynamics and relative domain movement of a multi-domain protein. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 14242-14256.	1.3	15
7	Ultrafast Excited State Dynamics of Spatially Confined Organic Molecules. <i>Journal of Physical Chemistry A</i> , 2022, 126, 4681-4699.	1.1	6
8	Chickpea peel waste as sustainable precursor for synthesis of fluorescent carbon nanotubes for bioimaging application. <i>Carbon Letters</i> , 2021, 31, 117-123.	3.3	23
9	Dynamics of Anthracene Excimer Formation within a Water-Soluble Nanocavity at Room Temperature. <i>Journal of the American Chemical Society</i> , 2021, 143, 2025-2036.	6.6	33
10	Correlating Bromelain's activity with its structure and active-site dynamics and the medium's physical properties in a hydrated deep eutectic solvent. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 9337-9346.	1.3	24
11	Rational design, preparation and characterization of a ternary non-ionic room-temperature deep eutectic solvent derived from urea, acetamide, and sorbitol. <i>Journal of Chemical Sciences</i> , 2021, 133, 1.	0.7	8
12	Dynamic heterogeneity and viscosity decoupling: origin and analytical prediction. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 15749-15757.	1.3	15
13	Potassium-Induced Passivation of Deep Traps in Bismuth-Doped Hybrid Lead Bromide Perovskite Nanocrystals: Massive Amplification of Photoluminescence Quantum Yield. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 546-551.	2.1	10
14	Marcus inversion is observed for excited state proton transfer in the adiabatic limit using naphthol based photoacids. <i>Chemical Physics Impact</i> , 2021, 3, 100044.	1.7	1
15	Polyethylene glycols affect electron transfer rate in phenosafranin-DNA complex. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 225, 117464.	2.0	3
16	Reversible Ultra-Slow Crystal Growth of Mixed Lead Bismuth Perovskite Nanocrystals: The Presence of Dynamic Capping. <i>Chemistry - A European Journal</i> , 2020, 26, 1506-1510.	1.7	6
17	Partial Viscosity Decoupling of Solute Solvation, Rotation, and Translation Dynamics in Lauric Acid/Menthol Deep Eutectic Solvent: Modulation of Dynamic Heterogeneity with Length Scale. <i>Journal of Physical Chemistry B</i> , 2020, 124, 6875-6884.	1.2	14
18	Fluorescence correlation spectroscopy as a tool to investigate the directionality of proteolysis. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 2524-2534.	3.6	3

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19	A review of the LIBS analysis for the plasma-facing components diagnostics. <i>Journal of Nuclear Materials</i> , 2020, 541, 152417.	1.3	52
20	Highly Selective and Sensitive (PPB Level) Quinolinâ€Based Colorimetric Chemosensor for Cu(II). <i>ChemistrySelect</i> , 2020, 5, 9435-9442.	0.7	9
21	Marcus Relationship Maintained During Ultrafast Electron Transfer Across a Supramolecular Capsular Wall. <i>Journal of Physical Chemistry A</i> , 2020, 124, 5297-5305.	1.1	12
22	Shape-Dependent Macromolecular Crowding on the Thermodynamics and Microsecond Conformational Dynamics of Protein Unfolding Revealed at the Single-Molecule Level. <i>Journal of Physical Chemistry B</i> , 2020, 124, 5858-5871.	1.2	37
23	Yellowish-orange phosphorescent iridium(III) complexes of bis-cyclometalated ligand with pyrazolone derivatives: synthesis, characterization, photophysical and thermal properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 13778-13786.	1.1	3
24	Subpicosecond Solvation Response and Partial Viscosity Decoupling of Solute Diffusion in Ionic Acetamide Deep Eutectic Solvents: Fluorescence Up-Conversion and Fluorescence Correlation Spectroscopic Measurements. <i>Journal of Physical Chemistry B</i> , 2020, 124, 1995-2005.	1.2	31
25	Size-dependent macromolecular crowding effect on the thermodynamics of protein unfolding revealed at the single molecular level. <i>International Journal of Biological Macromolecules</i> , 2019, 141, 843-854.	3.6	28
26	Temperature-Dependent Ultrafast Solvation Response and Solute Diffusion in Acetamideâ€Urea Deep Eutectic Solvent. <i>Journal of Physical Chemistry B</i> , 2019, 123, 9212-9221.	1.2	25
27	Chiral Induction on the Ultrafast Event of Excited State Proton Transfer Can Probe Its Mechanism. <i>ChemistrySelect</i> , 2019, 4, 12197-12201.	0.7	2
28	Thiazolothiazoleâ€Based Fluorescence Probe towards Detection of Copper and Iron Ions through Formation of Radical Cations. <i>ChemistrySelect</i> , 2019, 4, 11718-11725.	0.7	20
29	Ultrafast Solvation Dynamics Reveal that Octa Acid Capsuleâ€™s Interior Dryness Depends on the Guest. <i>Journal of Physical Chemistry A</i> , 2019, 123, 5928-5936.	1.1	13
30	Î²-carboline-based turn-on fluorescence chemosensor for quantitative detection of fluoride at PPB level. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 220, 117099.	2.0	18
31	A novel star-shaped triazine-triphenylamineâ€based fluorescent chemosensor for the selective detection of picric acid. <i>Materials Today Chemistry</i> , 2019, 12, 178-186.	1.7	34
32	Spectroscopic Insight on Ethanol-Induced Aggregation of Papain. <i>Journal of Physical Chemistry B</i> , 2019, 123, 2280-2290.	1.2	5
33	Domain-Specific Stabilization of Structural and Dynamic Responses of Human Serum Albumin by Sucrose. <i>Protein and Peptide Letters</i> , 2019, 26, 287-300.	0.4	3
34	Crystal structure and Hirshfeld surface analysis of (<i>E</i>)-2-[1-hydroxy-2-(pyridin-2-yl)ethyl]-4-[2-(4-methoxyphenyl)diazene-1-yl]phenol. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2019, 75, 600-603.	0.2	0
35	Elucidation of active site dynamics of papain and the effect of encapsulation within cationic and anionic reverse micelles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 200, 202-211.	2.0	2
36	Solvent Relaxation Accompanied Ultrafast Excited State Proton Transfer Dynamics Revealed in a Salicylideneaniline Derivative. <i>ChemistrySelect</i> , 2018, 3, 3787-3796.	0.7	8

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37	Spectral Studies of Lead-Free Organic-Inorganic Hybrid Solid-State Perovskites $\text{CH}_3\text{NH}_3\text{Bi}_{2/3}\text{I}_3$ and $\text{CH}_3\text{NH}_3\text{Pb}_{1/2}\text{Bi}_{1/3}\text{I}_3$ : Potential Photo Absorbers. <i>ChemistrySelect</i> , 2018, 3, 794-800.	0.7	5
38	Dynamical response in methanol-chloroform binary solvent mixture over fs time regime. <i>Physics and Chemistry of Liquids</i> , 2018, 56, 496-507.	0.4	7
39	Detail Modes of Binding Assessed by Bulk and Single Molecular Level Fluorescence, MD Simulation, and Its Temperature Dependence: Coumarin 152 with Human Serum Albumin Revisited. <i>IITK Directions</i> , 2018, , 1-12.	0.2	0
40	Sucrose-Induced Stabilization of Domain-II and Overall Human Serum Albumin against Chemical and Thermal Denaturation. <i>ACS Omega</i> , 2018, 3, 16633-16642.	1.6	12
41	Structural, Functional, and Dynamical Responses of a Protein in a Restricted Environment Imposed by Macromolecular Crowding. <i>Biochemistry</i> , 2018, 57, 6078-6089.	1.2	35
42	Region-Specific Double Denaturation of Human Serum Albumin: Combined Effects of Temperature and $\text{GnHCl}$ on Structural and Dynamical Responses. <i>ACS Omega</i> , 2018, 3, 10406-10417.	1.6	15
43	Solvation dynamics in SDS micelle revisited with femtosecond time resolution to reveal the probe and concentration dependence. <i>Chemical Physics</i> , 2018, 513, 141-148.	0.9	9
44	Calmidazolium Chloride and Its Complex with Serum Albumin Prevent Huntingtin Exon1 Aggregation. <i>Molecular Pharmaceutics</i> , 2018, 15, 3356-3368.	2.3	3
45	Monomerization and aggregation of $\beta$ -lactoglobulin under adverse condition: A fluorescence correlation spectroscopic investigation. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2018, 1866, 316-326.	1.1	15
46	Single Molecular Level Probing of Structure and Dynamics of Papain Under Denaturation. <i>Protein and Peptide Letters</i> , 2018, 24, 1073-1081.	0.4	4
47	Direct Observation of Intermediate State(s) in the Mechanistic Investigation of Domain Specific Protein-Surfactant Interaction. <i>Protein and Peptide Letters</i> , 2018, 25, 339-349.	0.4	2
48	Bimolecular Photoinduced Electron Transfer in Static Quenching Regime: Illustration of Marcus Inversion in Micelle. <i>Journal of Physical Chemistry B</i> , 2017, 121, 1610-1622.	1.2	18
49	Mixed Solvent Chemistry through Synergistic Solvation: Structure, Property and Function of t-Butanol-Dichloromethane Binary Solvent Mixtures. <i>Journal of Solution Chemistry</i> , 2017, 46, 461-475.	0.6	10
50	Decoupling diffusion from the bimolecular photoinduced electron transfer reaction: a combined ultrafast spectroscopic and kinetic analysis. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 11220-11229.	1.3	2
51	Elucidation of fs dynamics of domain-III of human serum albumin during the chemical and thermal unfolding: A fluorescence correlation spectroscopic investigation. <i>Biophysical Chemistry</i> , 2017, 221, 17-25.	1.5	15
52	Ultrafast Electron Transfer from Upper Excited State of Encapsulated Azulenes to Acceptors across an Organic Molecular Wall. <i>Journal of Physical Chemistry C</i> , 2017, 121, 20205-20216.	1.5	12
53	Ultrafast excited state deactivation channel of thioflavin T adsorbed on SDS micelle: A combined femtosecond fluorescence and transient absorption study. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 348, 287-294.	2.0	8
54	Ultrafast excited state intermolecular proton transfer dynamics of 2-(4-Pyridyl)benzimidazole inside the nanocavity of reverse micelles. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 347, 86-92.	2.0	5

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55	Startling temperature effect on proteins when confined: single molecular level behaviour of human serum albumin in a reverse micelle. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 14350-14358.	1.3	16
56	Elucidation of intriguing methanol-dichloromethane binary solvent mixture: Synergistic effect, analytical modeling, NMR and photo-induced electron transfer studies. <i>Journal of Molecular Liquids</i> , 2016, 223, 274-282.	2.3	20
57	Elucidation of the local dynamics of domain-III of human serum albumin over the ps-1/4s time regime using a new fluorescent label. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 28548-28555.	1.3	20
58	Dual relaxation channel in thioflavin-T: An ultrafast spectroscopic study. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 328, 136-147.	2.0	13
59	Graphene-Metal Nanoparticle Hybrids: Electronic Interaction Between Graphene and Nanoparticles. <i>Transactions of the Indian Institute of Metals</i> , 2016, 69, 839-844.	0.7	20
60	Ramping of pH Across the Water-Pool of a Reverse Micelle. <i>Langmuir</i> , 2016, 32, 1693-1699.	1.6	20
61	Effect of sucrose on chemically and thermally induced unfolding of domain-I of human serum albumin: Solvation dynamics and fluorescence anisotropy study. <i>Biophysical Chemistry</i> , 2016, 211, 59-69.	1.5	16
62	Highly selective visual detection of Fe <sup>3+</sup> at ppm level. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 15-20.	4.0	45
63	Dynamics of Solvent Response in Methanol-Chloroform Binary Solvent Mixture: A Case of Synergistic Solvation. <i>Journal of Physical Chemistry B</i> , 2015, 119, 3135-3141.	1.2	47
64	Graphene: a self-reducing template for synthesis of graphene-nanoparticles hybrids. <i>RSC Advances</i> , 2015, 5, 62284-62289.	1.7	24
65	Real Time Quantification of Ultrafast Photoinduced Bimolecular Electron Transfer Rate: Direct Probing of the Transient Intermediate. <i>Journal of Physical Chemistry B</i> , 2015, 119, 11253-11261.	1.2	14
66	Synthesis of $\beta$ -Carboline-Based <i>N</i> -Heterocyclic Carbenes and Their Antiproliferative and Antimetastatic Activities against Human Breast Cancer Cells. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 3485-3499.	2.9	97
67	Femtosecond dynamics of photoinduced cis-trans isomerization of ethyl-3-(1H-indole-3-yl)acrylate. <i>Chemical Physics Letters</i> , 2015, 638, 31-37.	1.2	2
68	Dichlorido(4-[[quinolin-2-yl)methylidene]amino}phenol- $\lambda^2$ N, $\lambda^2$ N)mercury(II). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014, 70, m173-m173.	0.2	11
69	[Bis(quinolin-2-ylcarbonyl)amido- $\lambda^3$ <i>N</i> , $\lambda^3$ <i>N</i> ]- $\lambda^2$ <i>N</i> , $\lambda^2$ <i>N</i> ]bromido( <i>N</i> , <i>N</i> -dimethylformamide- $\lambda^2$ <i>N</i> )mercury(II). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014, 70, m206-m207.	0.2	7
70	Conformational Fluctuation Dynamics of Domain I of Human Serum Albumin in the Course of Chemically and Thermally Induced Unfolding Using Fluorescence Correlation Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2014, 118, 5428-5438.	1.2	47
71	Spectroscopic evidence of the presence of an activation barrier in the otherwise barrierless excited state potential energy surface of auramine-O: A femtosecond fluorescence up-conversion study. <i>Journal of Chemical Physics</i> , 2013, 139, 124302.	1.2	11
72	Mechanistic investigation of domain specific unfolding of human serum albumin and the effect of sucrose. <i>Protein Science</i> , 2013, 22, 1571-1581.	3.1	26

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73	Dielectric controlled excited state relaxation pathways of a representative push-pull stilbene: A mechanistic study using femtosecond fluorescence up-conversion technique. <i>Journal of Chemical Physics</i> , 2013, 138, 084308.	1.2	13
74	Optical Property Characterization of Novel Graphene-X (X=Ag, Au and Cu) Nanoparticle Hybrids. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-9.	1.5	30
75	Origin of Strong Synergism in Weakly Perturbed Binary Solvent System: A Case Study of Primary Alcohols and Chlorinated Methanes. <i>Journal of Physical Chemistry B</i> , 2012, 116, 1345-1355.	1.2	53
76	Novel Chemosensor for the Visual Detection of Copper(II) in Aqueous Solution at the ppm Level. <i>Inorganic Chemistry</i> , 2012, 51, 8664-8666.	1.9	106
77	Excited State Relaxation Dynamics of Model Green Fluorescent Protein Chromophore Analogs: Evidence for <i>cis</i> - <i>Trans</i> Isomerism. <i>Journal of Physical Chemistry A</i> , 2011, 115, 13733-13742.	1.1	58
78	Femtosecond Excited-State Dynamics of 4-Nitrophenyl Pyrrolidinemethanol: Evidence of Twisted Intramolecular Charge Transfer and Intersystem Crossing Involving the Nitro Group. <i>Journal of Physical Chemistry A</i> , 2011, 115, 8335-8343.	1.1	53
79	A trinuclear bright red luminophore containing cyclometallated Ir motifs. <i>Chemical Communications</i> , 2011, 47, 10836-10838.	2.2	17
80	Two-Photon Absorption Technique for Selective Detection of Copper(II) Ions in Aqueous Solution Using a Dansyl-Pyrene Conjugate. <i>Chemistry - an Asian Journal</i> , 2011, 6, 2246-2250.	1.7	16
81	Microviscosity inside a Nanocavity: A Femtosecond Fluorescence Up-Conversion Study of Malachite Green. <i>Journal of Physical Chemistry B</i> , 2010, 114, 13988-13994.	1.2	44
82	New Insight into the Surface Denaturation of Proteins: Electronic Sum Frequency Generation Study of Cytochrome c at Water Interfaces. <i>Journal of Physical Chemistry B</i> , 2008, 112, 13473-13475.	1.2	28
83	Excited-state proton transfer from pyranine to acetate in methanol. <i>Journal of Chemical Sciences</i> , 2007, 119, 71-76.	0.7	21
84	A femtosecond study of excitation wavelength dependence of solvation dynamics in a PEO-PPO-PEO triblock copolymer micelle. <i>Journal of Chemical Physics</i> , 2006, 124, 204905.	1.2	76
85	A Femtosecond Study of Excitation-Wavelength Dependence of Solvation Dynamics in a Vesicle. <i>Chemistry - an Asian Journal</i> , 2006, 1, 188-194.	1.7	33
86	A femtosecond study of photoinduced electron transfer from dimethylaniline to coumarin dyes in a cetyltrimethylammonium bromide micelle. <i>Journal of Chemical Physics</i> , 2006, 125, 054509.	1.2	44
87	Solvation Dynamics in Biological Systems and Organized Assemblies. <i>Journal of the Chinese Chemical Society</i> , 2006, 53, 169-180.	0.8	5
88	Excitation wavelength dependence of solvation dynamics of coumarin 480 in a lipid vesicle. <i>Chemical Physics Letters</i> , 2005, 411, 339-344.	1.2	43
89	Solvation dynamics in a worm-like CTAB micelle. <i>Research on Chemical Intermediates</i> , 2005, 31, 135-144.	1.3	5
90	Solvation Dynamics of DCM in a DPPC Vesicle Entrapped in a Sodium Silicate Derived Sol-Gel Matrix. <i>Journal of Physical Chemistry B</i> , 2005, 109, 3319-3323.	1.2	22

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91	Fluorescence Anisotropy Decay and Solvation Dynamics in a Nanocavity:â€‰ Coumarin 153 in Methyl $\beta$ -Cyclodextrins. <i>Journal of Physical Chemistry A</i> , 2005, 109, 9716-9722.	1.1	89
92	Temperature dependence of solvation dynamics in a micelle. 4-Aminophthalimide in Triton X-100. <i>Chemical Physics Letters</i> , 2004, 385, 357-361.	1.2	49
93	Solvation Dynamics of DCM in a Polypeptideâˆ”Surfactant Aggregate:âˆ” Gelatinâˆ” Sodium Dodecyl Sulfate. <i>Langmuir</i> , 2004, 20, 653-657.	1.6	19
94	Solvation Dynamics in the Molten Globule State of a Protein. <i>Journal of Physical Chemistry B</i> , 2003, 107, 14563-14568.	1.2	45