

Uttam Pal

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

1,233
citations

430874

18
h-index

454955

30
g-index

83
all docs

83
docs citations

83
times ranked

1758
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	3.9	6
2	Piezo-phototronic effect in highly stable CsPbI ₃ -PVDF composite for self-powered nanogenerator and photodetector. <i>Nano Energy</i> , 2022, 92, 106743.	16.0	49
3	Effect of a Metal Ion in Modulating the Binding Interaction of a Dietary Flavonoid with Bovine Serum Albumin and DNA: A Spectroscopic and Theoretical Approach. <i>ACS Food Science & Technology</i> , 2022, 2, 114-124.	2.7	5
4	Essential Loop Dynamics Modulates Catalytic Activity in β -Chymotrypsin. <i>ChemistrySelect</i> , 2022, 7, .	1.5	3
5	Omeprazole prevents stress induced gastric ulcer by direct inhibition of MMP-2/TIMP-3 interactions. <i>Free Radical Biology and Medicine</i> , 2022, 181, 221-234.	2.9	13
6	Host-Assisted Delivery of a Model Drug to Genomic DNA: Key Information from Ultrafast Spectroscopy and <i>in silico</i> Study. <i>ChemBioChem</i> , 2022, , .	2.6	1
7	Regio- and stereoselectivity of the 1,3-dipolar cycloaddition of azomethine ylides to (E)-3-(2-oxo-2-(pyren-1-yl)ethylidene)indolin-2-ones: A combined experimental and theoretical study. <i>Arabian Journal of Chemistry</i> , 2022, 15, 103855.	4.9	1
8	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.	3.9	3
9	NMR and vibrational spectroscopic studies on the structure and self-assembly of Two de novo dipeptides in methanol. <i>Journal of Molecular Structure</i> , 2022, 1266, 133455.	3.6	4
10	Biophysical and theoretical studies of the interaction between a bioactive compound 3,5-dimethoxy-4-hydroxycinnamic acid with calf thymus DNA. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 245, 118936.	3.9	11
11	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.	7.6	36
12	Intriguing Biomedical Applications of Synthetic and Natural Cell-Derived Vesicles: A Comparative Overview. <i>ACS Applied Bio Materials</i> , 2021, 4, 2863-2885.	4.6	15
13	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.	7.5	4
14	Effect of solvent on the photophysical properties of isoxazole derivative of curcumin: A combined spectroscopic and theoretical study. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 410, 113164.	3.9	11
15	Effect of Mg Doping on Structural, Alloying, Electronic, Optical, and Bactericidal Properties of CuAg ₂₅ Nanoclusters: A Computational Study. <i>Journal of Physical Chemistry C</i> , 2021, 125, 11066-11074.	3.1	1
16	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.	4.6	17
17	Development of Triboelectroceutical Fabrics for Potential Applications in Self-Sanitizing Personal Protective Equipment. <i>ACS Applied Bio Materials</i> , 2021, 4, 5485-5493.	4.6	2
18	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, 16, 3739-3749.	3.2	7

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19	Evaluation of therapeutic effect of <i>Premna herbacea</i> in diabetic rat and isoverbascoside against insulin resistance in L6 muscle cells through bioenergetics and stimulation of JNK and AKT/mTOR signaling cascade. <i>Phytomedicine</i> , 2021, 93, 153761.	5.3	8
20	Extraction behavior of yttrium with Aliquat336 from nitrate and thiocyanate media: A microscopic view from computational analysis. <i>Materials Today Communications</i> , 2021, 28, 102603.	1.9	2
21	Dabrafenib, idelalisib and nintedanib act as significant allosteric modulator for dengue NS3 protease. <i>PLoS ONE</i> , 2021, 16, e0257206.	2.5	4
22	Impact of porous nanomaterials on inhibiting protein aggregation behaviour. <i>RSC Advances</i> , 2021, 11, 3354-3362.	3.6	4
23	Interaction of proflavin with tryptophan in reverse micellar microenvironment of AOT: Photoinduced electron transfer probed by magnetic field effect. <i>Journal of Luminescence</i> , 2020, 220, 116953.	3.1	3
24	Order, Disorder, and Reorder State of Lysozyme: Aggregation Mechanism by Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2020, 124, 50-60.	2.6	26
25	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.	3.5	17
26	Wide bandgap semiconductor-based novel nanohybrid for potential antibacterial activity: ultrafast spectroscopy and computational studies. <i>RSC Advances</i> , 2020, 10, 38890-38899.	3.6	9
27	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.	3.5	11
28	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.	2.7	15
29	Porphyrim-Armored Gold Nanospheres Modulate the Secondary Structure of α -Synuclein and Arrest Its Fibrillation. <i>Journal of Physical Chemistry C</i> , 2020, 124, 6418-6434.	3.1	7
30	Probing the Hydrogen Bond Involving Acridone Trapped in a Hydrophobic Biological Nanocavity: Integrated Spectroscopic and Docking Analyses. <i>Langmuir</i> , 2020, 36, 1241-1251.	3.5	10
31	Multi-spectroscopic and computational evaluation on the binding of sinapic acid and its Cu(II) complex with bovine serum albumin. <i>Food Chemistry</i> , 2019, 301, 125254.	8.2	21
32	Preferential photochemical interaction of Ru (III) doped carbon nano dots with bovine serum albumin over human serum albumin. <i>International Journal of Biological Macromolecules</i> , 2019, 137, 483-494.	7.5	20
33	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.	6.7	15
34	Stimuli-Responsive Nanocapsules for the Spatiotemporal Release of Melatonin: Protection against Gastric Inflammation. <i>ACS Applied Bio Materials</i> , 2019, 2, 5218-5226.	4.6	18
35	Wide Range Morphological Transition of Silver Nanoprisms by Selective Interaction with As(III): Tuning of Surface Plasmon Offers To Decode the Mechanism. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11044-11054.	3.1	9
36	Encapsulation of Thymol in cyclodextrin nano-cavities: A multi spectroscopic and theoretical study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 208, 339-348.	3.9	17

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37	Nuclear Uptake of Thiolated Riboflavin Gold Nanoassembly: DNA Damage and Apoptosis Induction in Cancer Cell. <i>Biophysical Journal</i> , 2018, 114, 360a.	0.5	0
38	Structural Insight of Amyloidogenic Intermediates of Human Insulin. <i>ACS Omega</i> , 2018, 3, 2452-2462.	3.5	26
39	DNA Damage and Apoptosis Induction in Cancer Cells by Chemically Engineered Thiolated Riboflavin Gold Nanoassembly. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 4582-4589.	8.0	16
40	Mesoporous silica for drug delivery: Interactions with model fluorescent lipid vesicles and live cells. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 178, 19-26.	3.8	11
41	Curcumin stably interacts with DNA hairpin through minor groove binding and demonstrates enhanced cytotoxicity in combination with FdU nucleotides. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 485-494.	2.4	12
42	Sensing of Iron(III) Ion via Modulation of Redox Potential on Biliverdin Protected Silver Nanosurface. <i>ACS Applied Nano Materials</i> , 2018, 1, 6099-6111.	5.0	9
43	Design and Synthesis of Fluorescent Carbon-Dot Polymer and Deciphering Its Electronic Structure. <i>Journal of Physical Chemistry C</i> , 2018, 122, 23799-23807.	3.1	11
44	Crystal-defect-induced facet-dependent electrocatalytic activity of 3D gold nanoflowers for the selective nanomolar detection of ascorbic acid. <i>Nanoscale</i> , 2018, 10, 11091-11102.	5.6	17
45	Low Magnetic Field Induced Surface Enhanced Transient Spin-Trajectory Modulation of a Prototype Anticancer Drug Sanguinarine on a Single Domain Superparamagnetic Nanosurface. <i>Journal of Physical Chemistry C</i> , 2018, 122, 20619-20631.	3.1	1
46	Advances in the Application of Nanomaterials and Nanosacled Materials in Physiology or Medicine: Now and the Future. <i>Materials Research Foundations</i> , 2018, , 147-178.	0.3	0
47	Constrained Photophysics of 5,7-dimethoxy-2,3,4,9-tetrahydro-1H-carbazol-1-one in the Bioenvironment of Serum Albumins: A Spectroscopic Endeavour Supported by Molecular Docking Analysis. <i>Journal of Fluorescence</i> , 2017, 27, 1547-1558.	2.5	6
48	Tamarixetin 3-O- β -D-Glucopyranoside from <i>Azadirachta indica</i> Leaves: Gastroprotective Role through Inhibition of Matrix Metalloproteinase-9 Activity in Mice. <i>Journal of Natural Products</i> , 2017, 80, 1347-1353.	3.0	23
49	Formation of Annular Protofibrillar Assembly by Cysteine Tripeptide: Unraveling the Interactions with NMR, FTIR, and Molecular Dynamics. <i>Journal of Physical Chemistry B</i> , 2017, 121, 6367-6379.	2.6	14
50	Acridone in a biological nanocavity: detailed spectroscopic and docking analyses of probing both the tryptophan residues of bovine serum albumin. <i>New Journal of Chemistry</i> , 2017, 41, 12520-12534.	2.8	19
51	Evidence of two structurally related solvatochromic probes complexed with β -cyclodextrin by using spectroscopic methods. <i>Journal of Molecular Structure</i> , 2017, 1130, 810-817.	3.6	12
52	Conformational selection underpins recognition of multiple DNA sequences by proteins and consequent functional actions. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 21618-21628.	2.8	2
53	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
54	Molecular Details of Acetate Binding to a New Diamine Receptor by NMR and FT-IR Analyses. <i>Journal of Physical Chemistry A</i> , 2016, 120, 2330-2341.	2.5	7

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55	Identification of modes of interactions between 9-aminoacridine hydrochloride hydrate and serum proteins by low and high resolution spectroscopy and molecular modeling. RSC Advances, 2016, 6, 53454-53468.	3.6	21
56	Orientation of tyrosine side chain in neurotoxic Al ²⁺ differs in two different secondary structures of the peptide. Royal Society Open Science, 2016, 3, 160112.	2.4	8
57	A Novel Spirooxindole Derivative Inhibits the Growth of Leishmania donovani Parasites both <i>In Vitro</i> and <i>In Vivo</i> by Targeting Type IB Topoisomerase. Antimicrobial Agents and Chemotherapy, 2016, 60, 6281-6293.	3.2	54
58	Envisaging Structural Insight of a Terminally Protected Proline Dipeptide by Raman Spectroscopy and Density Functional Theory Analyses. Journal of Physical Chemistry A, 2016, 120, 9829-9840.	2.5	5
59	Silver-catalysed azide-alkyne cycloaddition (AgAAC): assessing the mechanism by density functional theory calculations. Royal Society Open Science, 2016, 3, 160090.	2.4	15
60	Metal ions provide structural stability and compactness to tetrameric purothionin. RSC Advances, 2016, 6, 90690-90700.	3.6	4
61	Binding interaction of a novel fluorophore with serum albumins: steady state fluorescence perturbation and molecular modeling analysis. SpringerPlus, 2015, 4, 548.	1.2	12
62	Sequence Complexity of Amyloidogenic Regions in Intrinsically Disordered Human Proteins. PLoS ONE, 2014, 9, e89781.	2.5	18
63	Copper(I) oxide nanoparticle and tryptophan as its biological conjugate: a modulation of cytotoxic effects. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	7
64	Binding of hemoglobin to ultrafine carbon nanoparticles: a spectroscopic insight into a major health hazard. RSC Advances, 2014, 4, 22536-22541.	3.6	5
65	Stereoselective domino azidation and [3 + 2] cycloaddition: a facile route to chiral heterocyclic scaffolds from carbohydrate derived synthons. RSC Advances, 2014, 4, 4155-4162.	3.6	6
66	C ¹³ -H Carries Information of a Hydrogen Bond Involving the Geminal Hydroxyl Group: A Case Study with a Hydrogen-Bonded Complex of 1,1,1,3,3,3-Hexafluoro-2-propanol and Tertiary Amines. Journal of Physical Chemistry A, 2014, 118, 1024-1030.	2.5	21
67	³¹ P Determination of ² -Ribose by Raman Spectroscopy. Journal of Physical Chemistry B, 2014, 118, 909-914.	2.6	7
68	Potent anticancer activity of cystine-based dipeptides and their interaction with serum albumins. Chemistry Central Journal, 2013, 7, 91.	2.6	12
69	Dipeptide derived from benzylcystine forms unbranched nanotubes in aqueous solution. Journal of Nanostructure in Chemistry, 2013, 3, 1.	9.1	15
70	Melatonin inhibits matrix metalloproteinase-9 activity by binding to its active site. Journal of Pineal Research, 2013, 54, 398-405.	7.4	96
71	2,2'-Diphenyl-3,3'-Diindolylmethane: A Potent Compound Induces Apoptosis in Breast Cancer Cells by Inhibiting EGFR Pathway. PLoS ONE, 2013, 8, e59798.	2.5	32
72	Novel Anti-inflammatory Activity of Epoxyazadiradione against Macrophage Migration Inhibitory Factor. Journal of Biological Chemistry, 2012, 287, 24844-24861.	3.4	83

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73	Conformation and cytotoxicity of a tetrapeptide constellated with alternative d- and l-proline. RSC Advances, 2012, 2, 6744.	3.6	9
74	Nickel(II)-Schiff base complex recognizing domain II of bovine and human serum albumin: Spectroscopic and docking studies. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 92, 164-174.	3.9	106
75	Interaction of Merocyanine 540 with serum albumins: Photophysical and binding studies. Journal of Photochemistry and Photobiology B: Biology, 2012, 108, 23-33.	3.8	56
76	Synthesis and bio-evaluation of human macrophage migration inhibitory factor inhibitor to develop anti-inflammatory agent. Bioorganic and Medicinal Chemistry, 2011, 19, 7365-7373.	3.0	26