

Maidul Hossain

List of Publications by Year in descending order

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74
papers

2,029
citations

186254

28
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276858

41
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75
docs citations

75
times ranked

2211
citing authors

#	ARTICLE	IF	CITATIONS
1	DNA intercalation of methylene blue and quinacrine: new insights into base and sequence specificity from structural and thermodynamic studies with polynucleotides. <i>Molecular BioSystems</i> , 2009, 5, 1311.	2.9	94
2	Interaction of the Anticancer Plant Alkaloid Sanguinarine with Bovine Serum Albumin. <i>PLoS ONE</i> , 2011, 6, e18333.	2.5	81
3	DNA Intercalation by Quinacrine and Methylene Blue: A Comparative Binding and Thermodynamic Characterization Study. <i>DNA and Cell Biology</i> , 2008, 27, 81-90.	1.9	79
4	Binding of isoquinoline alkaloids berberine, palmatine and coralyne to hemoglobin: structural and thermodynamic characterization studies. <i>Molecular BioSystems</i> , 2013, 9, 143-153.	2.9	78
5	Biophysical Studies on the Effect of the 13 Position Substitution of the Anticancer Alkaloid Berberine on Its DNA Binding. <i>Journal of Physical Chemistry B</i> , 2012, 116, 2314-2324.	2.6	72
6	Biophysical studies on the base specificity and energetics of the DNA interaction of photoactive dye thionine: Spectroscopic and calorimetric approach. <i>Biophysical Chemistry</i> , 2010, 148, 93-103.	2.8	62
7	Biophysical Characterization of the Strong Stabilization of the RNA Triplex poly(U)â€¢poly(A)*poly(U) by 9-O-(1%-amino) Alkyl Ether Berberine Analogs. <i>PLoS ONE</i> , 2012, 7, e37939.	2.5	59
8	Molecular aspects on the specific interaction of cytotoxic plant alkaloid palmatine to poly(A). <i>International Journal of Biological Macromolecules</i> , 2006, 39, 210-221.	7.5	56
9	DNA binding of benzophenanthridine compounds sanguinarine versus ethidium: Comparative binding and thermodynamic profile of intercalation. <i>Journal of Chemical Thermodynamics</i> , 2009, 41, 764-774.	2.0	56
10	Carbon dots derived from lychee waste: Application for Fe ³⁺ ions sensing in real water and multicolor cell imaging of skin melanoma cells. <i>Materials Science and Engineering C</i> , 2020, 108, 110429.	7.3	53
11	Green synthesis of silver nanoparticles using <i>Pongamia pinnata</i> seed: Characterization, antibacterial property, and spectroscopic investigation of interaction with human serum albumin. <i>Journal of Molecular Recognition</i> , 2017, 30, e2565.	2.1	50
12	Interaction of carbon nanoparticles to serum albumin: elucidation of the extent of perturbation of serum albumin conformations and thermodynamical parameters. <i>Journal of Hazardous Materials</i> , 2013, 248-249, 238-245.	12.4	49
13	Sequence-Selective Binding of Phenazinium Dyes Phenosafranin and Safranin O to Guanineâ€¢Cytosine Deoxyribopolynucleotides: Spectroscopic and Thermodynamic Studies. <i>Journal of Physical Chemistry B</i> , 2010, 114, 15278-15287.	2.6	48
14	Investigations on the interaction of the phototoxic alkaloid coralyne with serum albumins. <i>Chemosphere</i> , 2012, 87, 775-781.	8.2	48
15	RNA specific molecules: Cytotoxic plant alkaloid palmatine binds strongly to poly(A). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006, 16, 2364-2368.	2.2	47
16	Enhanced DNA Binding of 9-Î‰-Amino Alkyl Ether Analogs from the Plant Alkaloid Berberine. <i>DNA and Cell Biology</i> , 2011, 30, 123-133.	1.9	45
17	Study on the thermodynamics of the binding of iminium and alkanolamine forms of the anticancer agent sanguinarine to human serum albumin. <i>Journal of Chemical Thermodynamics</i> , 2012, 47, 90-99.	2.0	44
18	Binding of plant alkaloids berberine and palmatine to serum albumins: a thermodynamic investigation. <i>Molecular Biology Reports</i> , 2013, 40, 553-566.	2.3	44

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19	RNA targeting by DNA binding drugs: Structural, conformational and energetic aspects of the binding of quinacrine and DAPI to A-form and HL-form of poly(rC)-poly(rG). <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2007, 1770, 1636-1650.	2.4	42
20	Influence of Galloyl Moiety in Interaction of Epicatechin with Bovine Serum Albumin: A Spectroscopic and Thermodynamic Characterization. <i>PLoS ONE</i> , 2012, 7, e43321.	2.5	42
21	A triazole linked C-glycosyl pyrene fluorescent sensor for selective detection of Au ³⁺ in aqueous solution and its application in bioimaging. <i>Sensors and Actuators B: Chemical</i> , 2019, 279, 476-482.	7.8	37
22	Studies on $\hat{1}\alpha$ -, $\hat{1}\beta$ -, and $\hat{1}\gamma$ -cyclodextrin inclusion complexes of isoquinoline alkaloids berberine, palmatine and coralyne. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2014, 78, 311-323.	1.6	35
23	A compact study on impact of multiplicative <i>Streblus asper</i> inspired biogenic silver nanoparticles as effective photocatalyst, good antibacterial agent and interplay upon interaction with human serum albumin. <i>Journal of Molecular Liquids</i> , 2018, 259, 18-29.	4.9	35
24	Spectroscopic interaction study of human serum albumin and human hemoglobin with <i>Mersilea quadrifolia</i> leaves extract mediated silver nanoparticles having antibacterial and anticancer activity. <i>Journal of Molecular Structure</i> , 2017, 1141, 584-592.	3.6	34
25	Binding of the phenothiazinium dye methylene blue with single stranded polyriboadenylic acid. <i>Dyes and Pigments</i> , 2012, 92, 1376-1383.	3.7	31
26	Base pair specificity and energetics of binding of the phenazinium molecules phenosafranine and safranin-O to deoxyribonucleic acids: a comparative study. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 12771.	2.8	30
27	Binding of the anticancer alkaloid sanguinarine with tRNA ^{phe} : spectroscopic and calorimetric studies. <i>Journal of Biomolecular Structure and Dynamics</i> , 2012, 30, 223-234.	3.5	30
28	Energetics of the binding of phototoxic and cytotoxic plant alkaloid sanguinarine to DNA: Isothermal titration calorimetric studies. <i>Journal of Molecular Structure</i> , 2008, 889, 54-63.	3.6	28
29	Sensitive and robust colorimetric assay of Hg ²⁺ and S ²⁻ in aqueous solution directed by 5-sulfosalicylic acid-stabilized silver nanoparticles for wide range application in real samples. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 5645-5654.	6.7	28
30	Thermodynamics of the DNA binding of biogenic polyamines: Calorimetric and spectroscopic investigations. <i>Journal of Chemical Thermodynamics</i> , 2013, 57, 445-453.	2.0	27
31	Interaction of Small Molecules with Double-Stranded RNA: Spectroscopic, Viscometric, and Calorimetric Study of Hoechst and Proflavine Binding to PolyCG Structures. <i>DNA and Cell Biology</i> , 2009, 28, 209-219.	1.9	26
32	Calorimetric and thermal analysis studies on the binding of phenothiazinium dye thionine with DNA polynucleotides. <i>Journal of Chemical Thermodynamics</i> , 2011, 43, 1036-1043.	2.0	26
33	Supramolecular self-assembly, DNA interaction, antibacterial and cell viability studies of Cu(II) and Ni(II) complexes derived from NNN donor Schiff base ligand. <i>Inorganica Chimica Acta</i> , 2019, 487, 128-137.	2.4	24
34	<i>In vitro</i> relationship between serum protein binding to beta-carboline alkaloids: a comparative cytotoxic, spectroscopic and calorimetric assays. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 1103-1118.	3.5	19
35	Saccharification of lignocellulosic biomass using an enzymatic cocktail of fungal origin and successive production of butanol by <i>Clostridium acetobutylicum</i> . <i>Bioresource Technology</i> , 2022, 343, 126093.	9.6	19
36	Biodeinking of waste papers using combinatorial fungal enzymes and subsequent production of butanol from effluent. <i>Bioresource Technology</i> , 2022, 353, 127078.	9.6	19

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37	Molecular binding of toxic phenothiazinium derivatives, azures to bovine serum albumin: A comparative spectroscopic, calorimetric, and in silico study. <i>Journal of Molecular Recognition</i> , 2017, 30, e2609.	2.1	18
38	Study of the interaction of human serum albumin with <i>Alstonia scholaris</i> leaf extract-mediated silver nanoparticles having bactericidal property. <i>Process Biochemistry</i> , 2017, 60, 59-66.	3.7	18
39	The synthesis of thiol-stabilized silver nanoparticles and their application towards the nanomolar-level colorimetric recognition of glutathione. <i>New Journal of Chemistry</i> , 2019, 43, 13480-13490.	2.8	18
40	Intercalation and Induction of Strand Breaks by Adriamycin and Daunomycin: A Study with Human Genomic DNA. <i>DNA and Cell Biology</i> , 2012, 31, 378-387.	1.9	17
41	Synthesis and X-ray structure of a new zinc(II) coordination polymer: interaction with DNA and double stranded RNA and elucidation of the molecular aspects of the binding to bovine serum albumin. <i>RSC Advances</i> , 2014, 4, 57855-57868.	3.6	17
42	Pyrido[1,2-a]pyrimidinium ions – a novel bridgehead nitrogen heterocycles: synthesis, characterisation, and elucidation of DNA binding and cell imaging properties. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 8037-8047.	2.8	17
43	Sensing of tryptophan by a non-toxic cobalt(II) complex. <i>RSC Advances</i> , 2016, 6, 95888-95896.	3.6	17
44	Intramolecular macrolactonization, photophysical and biological studies of new class of polycyclic pyrrole derivatives. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 2411-2421.	2.8	17
45	Spectroscopic investigation on interaction of biogenic, <i>Croton bonplandianum</i> leaves extract mediated potential bactericidal silver nanoparticles with human hemoglobin and human serum albumin. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018, 36, 711-723.	3.5	17
46	Eco-friendly synthesis of a highly fluorescent carbon dots from spider silk and its application towards Hg (II) ions detection in real sample and living cells. <i>Microchemical Journal</i> , 2019, 144, 479-488.	4.5	17
47	Potential targetability of multi-walled carbon nanotube loaded with silver nanoparticles photosynthesized from <i>Ocimum tenuiflorum</i> (tulsi extract) in fertility diagnosis. <i>Journal of Drug Targeting</i> , 2017, 25, 616-625.	4.4	16
48	A square pyramidal copper(II) complex of a Schiff base ligand: synthesis, crystal structure, antibacterial and DNA interaction studies. <i>Transition Metal Chemistry</i> , 2017, 42, 69-78.	1.4	15
49	Spectroscopic study on interaction of <i>Nymphaea nouchali</i> leaf extract mediated bactericidal gold nanoparticles with human serum albumin. <i>Journal of Molecular Structure</i> , 2019, 1179, 685-693.	3.6	15
50	Thermodynamic profiles of the DNA binding of benzophenanthridines sanguinarine and ethidium: A comparative study with sequence specific polynucleotides. <i>Journal of Chemical Thermodynamics</i> , 2010, 42, 1273-1280.	2.0	14
51	Gold nanoparticles alter Taq DNA polymerase activity during polymerase chain reaction. <i>RSC Advances</i> , 2013, 3, 20793.	3.6	14
52	Binding interaction study on human serum albumin with bactericidal gold nanoparticles synthesized from a leaf extract of <i>Musa balbisiana</i> : a multispectroscopic approach. <i>Luminescence</i> , 2019, 34, 563-575.	2.9	14
53	Berberine derivatives as heteroatom induced hydrophobic sensor: An analytical approach for the selective and sensitive fluorometric detection and discrimination of serum albumins. <i>Analytica Chimica Acta</i> , 2019, 1065, 124-133.	5.4	14
54	Study on the antibacterial activity and interaction with human serum albumin of <i>Tagetes erecta</i> inspired biogenic silver nanoparticles. <i>Process Biochemistry</i> , 2020, 97, 191-200.	3.7	14

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55	A sensorial colorimetric detection method for Hg ²⁺ and Cu ²⁺ ions using single probe sensor based on 5-methyl-1,3,4-thiadiazole-2-thiol stabilized gold nanoparticles and its application in real water sample analysis. <i>Microchemical Journal</i> , 2019, 147, 1163-1172.	4.5	13
56	Evaluation of nutrient profile, biochemical composition and anti-gastric ulcer potentialities of khambir, a leavened flat bread. <i>Food Chemistry</i> , 2021, 345, 128824.	8.2	13
57	Probing suitable therapeutic nanoparticles for controlled drug delivery and diagnostic reproductive health biomarker development. <i>Materials Science and Engineering C</i> , 2016, 61, 235-245.	7.3	10
58	Palladium-Catalyzed Intramolecular Cyclization: Access to Rare Pentacyclic <i>N</i> -Fused Heterocycles. <i>ChemistrySelect</i> , 2017, 2, 9312-9318.	1.5	10
59	A complete multispectroscopic resolution on the fate of HSA upon interplay with three different glycosaminoglycans inspired silver nanoparticles and straightforward judgment of nanoparticles for recruitment as potent anticancer and antibacterial agent. <i>Journal of Molecular Liquids</i> , 2019, 274, 598-611.	4.9	10
60	Hydrophobic ring substitution on 9-O position of berberine act as a selective fluorescent sensor for the recognition of bovine serum albumin. <i>Microchemical Journal</i> , 2020, 153, 104453.	4.5	10
61	Superb-selective chemodosimetric signaling of sulfide in the absence and in the presence of CT-DNA and imaging in living cells by a plant alkaloid berberine analogue. <i>New Journal of Chemistry</i> , 2019, 43, 2368-2380.	2.8	9
62	Biophysical studies of mutated K562 DNA (erythroleukemic cells) binding to adriamycin and daunomycin reveal that mutations induce structural changes influencing binding behavior. <i>Journal of Biomolecular Structure and Dynamics</i> , 2013, 31, 331-341.	3.5	8
63	Synthesis, Characterization and Crystal Structure of a New 3D Cadmium(II) Coordination Polymer: Binding Interaction with DNA and Double Stranded RNA. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2016, 26, 806-818.	3.7	7
64	Elucidating the interaction of <i>Spathodea campanulata</i> leaf extracts mediated potential bactericidal gold nanoparticles with human serum albumin: spectroscopic analysis. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019, 37, 3536-3549.	3.5	6
65	Biophysical insights into the interaction of human serum albumin with <i>Cassia fistula</i> leaf extracts inspired biogenic potent antibacterial and anticancerous gold nanoparticles. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, 39, 4567-4581.	3.5	6
66	Deciphering the positional impact of chlorine in a new series of berberine analogues towards the superb-selective α -turn-on β -hydrophobic signaling of bovine serum albumin at physiological pH. <i>New Journal of Chemistry</i> , 2020, 44, 1761-1771.	2.8	6
67	Characterization of DNA Binding Property of the HIV-1 Host Factor and Tumor Suppressor Protein Integrase Interactor 1 (INI1/hSNF5). <i>PLoS ONE</i> , 2013, 8, e66581.	2.5	6
68	Amphotericin B and anidulafungin directly interact with DNA and induce oxidative damage in the mammalian genome. <i>Molecular BioSystems</i> , 2015, 11, 2551-2559.	2.9	5
69	Probing the binding of <i>Spathodea campanulata</i> leaves extract mediated biogenic potential microbicidal silver nanoparticles to human serum albumin: An insight in the light of spectroscopic approach. <i>Journal of Luminescence</i> , 2018, 202, 147-156.	3.1	5
70	A compact prospective investigation on the colorimetric recognition of Hg ²⁺ ion and photostimulated degradation of discharged toxic organic dyes motivated by <i>H. mutabilis</i> directed silver nanoparticles. <i>New Journal of Chemistry</i> , 2019, 43, 17188-17199.	2.8	5
71	Synthesis, structure, and biological properties of a Co(II) complex with tridentate Schiff base ligand. <i>Journal of Coordination Chemistry</i> , 2018, 71, 1497-1509.	2.2	4
72	Synthesis of a Naturally Occurring Plant Alkaloid Berberine Analogue and Its Application in Nanomolar Selective Detection of Hydrazine in Free and DNA β -Binding Situation.. <i>ChemistrySelect</i> , 2017, 2, 6519-6528.	1.5	3

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73	Comparative Nanoscale Interaction of TiO ₂ /ZnO/Cu with Human Spermatozoa for Biomedical Application. <i>Advanced Science, Engineering and Medicine</i> , 2016, 8, 360-369.	0.3	3
74	9-N-substituted novel berberine derivative for selective and sensitive nanomolar level fluorometric detection of human hemoglobin: A synthesis, sensing and interaction study. <i>Journal of Molecular Liquids</i> , 2021, 321, 114741.	4.9	2