

# Maidul Hossain

## List of Publications by Year in descending order

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74  
papers

2,029  
citations

212478

28  
h-index

312153

41  
g-index

75  
all docs

75  
docs citations

75  
times ranked

2475  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	4.8	19
2	Biodeinking of waste papers using combinatorial fungal enzymes and subsequent production of butanol from effluent. <i>Bioresource Technology</i> , 2022, 353, 127078.	4.8	19
3	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.	2.0	6
4	Evaluation of nutrient profile, biochemical composition and anti-gastric ulcer potentialities of khambir, a leavened flat bread. <i>Food Chemistry</i> , 2021, 345, 128824.	4.2	13
5	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.	2.3	2
6	<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.	2.0	19
7	Carbon dots derived from lychee waste: Application for Fe <sup>3+</sup> ions sensing in real water and multicolor cell imaging of skin melanoma cells. <i>Materials Science and Engineering C</i> , 2020, 108, 110429.	3.8	53
8	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.	2.3	10
9	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.	1.8	14
10	Deciphering the positional impact of chlorine in a new series of berberine analogues towards the superb-selective $\alpha$ -hydrophobic signaling of bovine serum albumin at physiological pH. <i>New Journal of Chemistry</i> , 2020, 44, 1761-1771.	1.4	6
11	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.	1.4	18
12	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.	1.4	9
13	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.	1.5	14
14	A sensorial colorimetric detection method for Hg <sup>2+</sup> and Cu <sup>2+</sup> 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.	2.3	13
15	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.	2.6	14
16	A compact prospective investigation on the colorimetric recognition of Hg <sup>2+</sup> 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.	1.4	5
17	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.	2.0	6
18	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.	2.3	10

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19	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.	1.8	15
20	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.	1.2	24
21	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.	2.3	17
22	A triazole linked C-glycosyl pyrene fluorescent sensor for selective detection of Au <sup>3+</sup> in aqueous solution and its application in bioimaging. <i>Sensors and Actuators B: Chemical</i> , 2019, 279, 476-482.	4.0	37
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.	2.3	35
24	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.	2.0	17
25	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.	1.5	5
26	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.	0.8	4
27	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.	1.1	18
28	Intramolecular macrolactonization, photophysical and biological studies of new class of polycyclic pyrrole derivatives. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 2411-2421.	1.5	17
29	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.	1.8	34
30	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.	1.8	18
31	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.	2.1	16
32	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.	0.7	15
33	Palladium-Catalyzed Intramolecular Cyclization: Access to Rare Pentacyclic N-Fused Heterocycles. <i>ChemistrySelect</i> , 2017, 2, 9312-9318.	0.7	10
34	Synthesis of a Naturally Occurring Plant Alkaloid Berberine Analogue and Its Application in Nanomolar Selective Detection of Hydrazine in Free and DNA Binding Situation.. <i>ChemistrySelect</i> , 2017, 2, 6519-6528.	0.7	3
35	Sensitive and robust colorimetric assay of Hg <sup>2+</sup> and S <sup>2-</sup> 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.	3.3	28
36	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.	1.1	50

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37	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.	1.9	7
38	Sensing of tryptophan by a non-toxic cobalt(II) complex. <i>RSC Advances</i> , 2016, 6, 95888-95896.	1.7	17
39	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.	3.8	10
40	Comparative Nanoscale Interaction of TiO <sub>2</sub> /ZnO/Cu with Human Spermatozoa for Biomedical Application. <i>Advanced Science, Engineering and Medicine</i> , 2016, 8, 360-369.	0.3	3
41	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
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.	1.5	17
43	Studies on $\hat{1}$ -, $\hat{2}$ -, and $\hat{3}$ -cyclodextrin inclusion complexes of isoquinoline alkaloids berberine, palmatine and coralyne. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2014, 78, 311-323.	0.9	35
44	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.	1.7	17
45	Binding of plant alkaloids berberine and palmatine to serum albumins: a thermodynamic investigation. <i>Molecular Biology Reports</i> , 2013, 40, 553-566.	1.0	44
46	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.	6.5	49
47	Gold nanoparticles alter Taq DNA polymerase activity during polymerase chain reaction. <i>RSC Advances</i> , 2013, 3, 20793.	1.7	14
48	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
49	Thermodynamics of the DNA binding of biogenic polyamines: Calorimetric and spectroscopic investigations. <i>Journal of Chemical Thermodynamics</i> , 2013, 57, 445-453.	1.0	27
50	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.	2.0	8
51	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.	1.1	6
52	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.	0.9	17
53	Binding of the anticancer alkaloid sanguinarine with tRNA <sup>phe</sup> : spectroscopic and calorimetric studies. <i>Journal of Biomolecular Structure and Dynamics</i> , 2012, 30, 223-234.	2.0	30
54	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.	1.2	72

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55	Investigations on the interaction of the phototoxic alkaloid coralyne with serum albumins. <i>Chemosphere</i> , 2012, 87, 775-781.	4.2	48
56	Binding of the phenothiazinium dye methylene blue with single stranded polyriboadenylic acid. <i>Dyes and Pigments</i> , 2012, 92, 1376-1383.	2.0	31
57	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.	1.0	44
58	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.	1.1	59
59	Influence of Galloyl Moiety in Interaction of Epicatechin with Bovine Serum Albumin: A Spectroscopic and Thermodynamic Characterization. <i>PLoS ONE</i> , 2012, 7, e43321.	1.1	42
60	Enhanced DNA Binding of 9-1%-Amino Alkyl Ether Analogs from the Plant Alkaloid Berberine. <i>DNA and Cell Biology</i> , 2011, 30, 123-133.	0.9	45
61	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.	1.0	26
62	Interaction of the Anticancer Plant Alkaloid Sanguinarine with Bovine Serum Albumin. <i>PLoS ONE</i> , 2011, 6, e18333.	1.1	81
63	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.	1.2	48
64	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.	1.5	62
65	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.	1.0	14
66	Base pair specificity and energetics of binding of the phenazinium molecules phenosafranin and safranin-O to deoxyribonucleic acids: a comparative study. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 12771.	1.3	30
67	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.	1.0	56
68	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
69	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.	0.9	26
70	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.	1.8	28
71	DNA Intercalation by Quinacrine and Methylene Blue: A Comparative Binding and Thermodynamic Characterization Study. <i>DNA and Cell Biology</i> , 2008, 27, 81-90.	0.9	79
72	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)â€¢poly(rG). <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2007, 1770, 1636-1650.	1.1	42

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73	Molecular aspects on the specific interaction of cytotoxic plant alkaloid palmatine to poly(A). International Journal of Biological Macromolecules, 2006, 39, 210-221.	3.6	56
74	RNA specific molecules: Cytotoxic plant alkaloid palmatine binds strongly to poly(A). Bioorganic and Medicinal Chemistry Letters, 2006, 16, 2364-2368.	1.0	47