Maidul Islam

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A comparison on the biochemical activities of Fluorescein disodium, Rose Bengal and Rhodamine 101 in the light of DNA binding, antimicrobial and cytotoxic study. Journal of Biomolecular Structure and Dynamics, 2022, 40, 9848-9859.	3.5	8
2	Development of DNA intercalative, HSA binder pyridineâ€based novel Schiff base Cu(II), Ni(II) complexes with effective anticancer property: A combined experimental and theoretical approach. Applied Organometallic Chemistry, 2022, 36, e6473.	3.5	10
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. Journal of Biomolecular Structure and Dynamics, 2021, 39, 4567-4581.	3.5	6
4	One-pot crystallization of two 1,4-cyclohexanedicarboxylate-based tetranuclear Cu <scp>(ii)</scp> compounds and their DNA binding affinities. CrystEngComm, 2021, 23, 1091-1098.	2.6	8
5	Evidence for Dual Site Binding of Nile Blue A toward DNA: Spectroscopic, Thermodynamic, and Molecular Modeling Studies. ACS Omega, 2021, 6, 2613-2625.	3.5	32
6	Green synthesis of silver nanoparticles having specific anticancer activity against MDA-MB 468 carcinoma cells. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2021, 12, 025017.	1.5	3
7	Study on the antibacterial activity and interaction with human serum albumin of Tagetes erecta inspired biogenic silver nanoparticles. Process Biochemistry, 2020, 97, 191-200.	3.7	14
8	A dual role of cumin-seed extract towards the silver nanoparticle synthesis and stabilisation and its potential for antibacterial and anticancer activities through oxidative damage. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2020, 11, 025019.	1.5	5
9	Facile synthesis of antibiotic encapsulated biopolymeric okra mucilage nanoparticles: molecular docking, <i>in vitro</i> stability and functional evaluation. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2020, 11, 025020.	1.5	1
10	Synthesis and characterization of a hydrogen bonded metal-organic cocrystal: Exploration of its DNA binding study. Polyhedron, 2020, 180, 114454.	2.2	9
11	Deciphering the positional impact of chlorine in a new series of berberine analogues towards the superb-selective "turn-on―hydrophobic signaling of bovine serum albumin at physiological pH. New Journal of Chemistry, 2020, 44, 1761-1771.	2.8	6
12	Synthesis, crystal structure and DNA binding of a new Ni(II) coordination compound based on 4-(1-naphthylvinyl)pyridine ligand. Polyhedron, 2020, 190, 114777.	2.2	2
13	Structures, Photoresponse Properties, and Biological Activity of Dicyano-Substituted 4-Aryl-2-pyridone Derivatives. ACS Omega, 2019, 4, 7200-7212.	3.5	16
14	Binding interaction study on human serum albumin with bactericidal gold nanoparticles synthesized from a leaf extract of <scp><i>Musa balbisiana</i></scp> : a multispectroscopic approach. Luminescence, 2019, 34, 563-575.	2.9	14
15	Berberine derivatives as heteroatom induced hydrophobic sensor: AnÂanalytical approach for the selective and sensitive fluorometric detection and discrimination of serum albumins. Analytica Chimica Acta, 2019, 1065, 124-133.	5.4	14
16	Structures, photoresponse properties and DNA binding abilities of 4-(4-pyridinyl)-2-pyridone salts. RSC Advances, 2019, 9, 9663-9677.	3.6	24
17	Elucidating the interaction of Spathodea campanulata leaf extracts mediated potential bactericidal gold nanoparticles with human serum albumin: spectroscopic analysis. Journal of Biomolecular Structure and Dynamics, 2019, 37, 3536-3549.	3.5	6
18	Elucidating the chemical and biochemical applications of <i>Citrus sinensis</i> -mediated silver nanocrystal. Journal of Biomolecular Structure and Dynamics, 2019, 37, 4863-4874.	3.5	6

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19	Spectroscopic study on interaction of Nymphaea nouchali leaf extract mediated bactericidal gold nanoparticles with human serum albumin. Journal of Molecular Structure, 2019, 1179, 685-693.	3.6	15
20	Chiralityâ€Induced Variation in Interaction of Two Similar Copper(II) Coordination Polymers with Calf Thymus DNA: Exploration of Their Antimicrobial Activity and Cytotoxicity. ChemistrySelect, 2018, 3, 7112-7122.	1.5	11
21	Molecular Docking an Important Tool for Drug Designing. Modern Approaches in Drug Designing, 2018, 1, .	0.2	1
22	Molecular binding of toxic phenothiazinium derivatives, azures to bovine serum albumin: A comparative spectroscopic, calorimetric, and in silico study. Journal of Molecular Recognition, 2017, 30, e2609.	2.1	18
23	A selective chemosensor for fluoride ion and its interaction with Calf Thymus DNA. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 178, 24-31.	3.9	3
24	A green synthetic approach toward the synthesis of structurally diverse spirooxindole derivative libraries under catalyst-free conditions. Molecular Diversity, 2017, 21, 325-337.	3.9	24
25	Observation of π-hole interactions in the solid state structures of three new copper(II) complexes with a tetradentate N4 donor Schiff base: Exploration of their cytotoxicity against MDA-MB 468 cells. Polyhedron, 2017, 123, 334-343.	2.2	41
26	Biochemical activity of a fluorescent dye rhodamine 6G: Molecular modeling, electrochemical, spectroscopic and thermodynamic studies. Journal of Photochemistry and Photobiology B: Biology, 2016, 164, 369-379.	3.8	17
27	Interaction of a synthesized pyrene based fluorescent probe with CT-DNA: spectroscopic, thermodynamic and molecular modeling studies. RSC Advances, 2016, 6, 93335-93342.	3.6	10
28	Thermodynamic Study of Rhodamine 123-Calf Thymus DNA Interaction: Determination of Calorimetric Enthalpy by Optical Melting Study. Journal of Physical Chemistry B, 2014, 118, 13151-13161.	2.6	33
29	Binding of DNA with Rhodamine B: Spectroscopic and molecular modeling studies. Dyes and Pigments, 2013, 99, 412-422.	3.7	110
30	Binding of 9-O-(ω-amino) alkyl ether analogues of the plant alkaloid berberine to poly(A): insights into self-structure induction. MedChemComm, 2011, 2, 631.	3.4	37
31	Enhanced DNA Binding of 9-ï‰-Amino Alkyl Ether Analogs from the Plant Alkaloid Berberine. DNA and Cell Biology, 2011, 30, 123-133.	1.9	45
32	DNA minor groove binding of small molecules: Experimental and computational evidence. Journal of Chemical Sciences, 2010, 122, 247-257.	1.5	44
33	Binding of the anticancer alkaloid sanguinarine to double stranded RNAs: Insights into the structural and energetics aspects. Molecular BioSystems, 2010, 6, 1265.	2.9	38
34	DNA Binding Ability and Hydrogen Peroxide Induced Nuclease Activity of a Novel Cu(II) Complex with Malonate as the Primary Ligand and Protonated 2-Amino-4-picoline as the Counterion. Journal of Physical Chemistry B, 2010, 114, 5851-5861.	2.6	17
35	RNA-Binding Potential of Protoberberine Alkaloids: Spectroscopic and Calorimetric Studies on the Binding of Berberine, Palmatine, and Coralyne to Protonated RNA Structures. DNA and Cell Biology, 2009, 28, 637-650.	1.9	18
36	Small molecule–RNA interaction: Spectroscopic and calorimetric studies on the binding by the cytotoxic protoberberine alkaloid coralyne to single stranded polyribonucleotides. Biochimica Et Biophysica Acta - General Subjects, 2009, 1790, 829-839.	2.4	37

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37	Spectroscopic and Calorimetric Studies on the Binding of Alkaloids Berberine, Palmatine and Coralyne to Double Stranded RNA Polynucleotides. Journal of Physical Chemistry B, 2009, 113, 1210-1224.	2.6	140
38	RNA targeting through binding of small molecules: Studies on t-RNA binding by the cytotoxic protoberberine alkaloidcoralyne. Molecular BioSystems, 2009, 5, 244-254.	2.9	82
39	Binding of DNA-binding alkaloids berberine and palmatine to tRNA and comparison to ethidium: Spectroscopic and molecular modeling studies. Journal of Molecular Structure, 2008, 891, 498-507.	3.6	75
40	RNA targeting by small molecule alkaloids: Studies on the binding of berberine and palmatine to polyribonucleotides and comparison to ethidium. Journal of Molecular Structure, 2008, 875, 382-391.	3.6	44
41	RNA binding small molecules: Studies on t-RNA binding by cytotoxic plant alkaloids berberine, palmatine and the comparison to ethidium. Biophysical Chemistry, 2007, 125, 508-520.	2.8	130
42	The binding of DNA intercalating and non-intercalating compounds to A-form and protonated form of poly(rC)·poly(rG): Spectroscopic and viscometric study. Bioorganic and Medicinal Chemistry, 2006, 14, 800-814.	3.0	124
43	Protonated structures of naturally occurring deoxyribonucleic acids and their interaction with berberine. Bioorganic and Medicinal Chemistry, 2005, 13, 4851-4863.	3.0	45