

Mohd Atif Faiz Afzal

List of Publications by Year in descending order

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citations

279487

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2591
citing authors

#	ARTICLE	IF	CITATIONS
1	Ferrocenyl-2-pyridylimine derived d ¹⁰ -configuration complexes as prospective co-sensitizers in dye sensitized solar cells. Applied Organometallic Chemistry, 2022, 36, .	1.7	7
2	Depicting the DNA Binding and Cytotoxicity Studies against Human Colorectal Cancer of Aquabis (1-Formyl-2-Naphtholato-k ₂ O, O ²⁻) Copper(II): A Biophysical and Molecular Docking Perspective. Crystals, 2022, 12, 15.	1.0	3
3	Structural elucidation and cytotoxicity profile of neocuproine-Cu(II) and Cu(I)-based chemotherapeutic agents: Effect of picric acid-derived cocrystals. Polyhedron, 2022, 220, 115848.	1.0	7
4	Exploiting the biological potential of Zn(II) complex derived from zwitterionic Schiff base: DNA binding and cytotoxicity activity against human cervical cancer. Chemical Papers, 2022, 76, 5177-5186.	1.0	4
5	Impact of N-donor auxiliary ligands on two new Co(II)-based MOFs with N-heterocyclic ligands and a magnetism study. New Journal of Chemistry, 2022, 46, 11623-11631.	1.4	27
6	Construction of a 3D Metal-Organic Framework and Its Composite for Water Remediation via Selective Adsorption and Photocatalytic Degradation of Hazardous Dye. ACS Omega, 2022, 7, 24438-24451.	1.6	20
7	A zinc(II) metal-organic complex based on 2-(2-aminophenyl)-1H-benzimidazole ligand: Exhibiting high adsorption capacity for aromatic hazardous dyes and catecholase mimicking activity. Journal of Molecular Liquids, 2022, 363, 119767.	2.3	7
8	Synthesis, structural topology, DFT, and photoluminescence properties of Sm(III) and octacyanomolybdate(V) building-block-based 1-D chain complex. Transition Metal Chemistry, 2021, 46, 129-137.	0.7	1
9	Anti-COVID-19 terpenoid from marine sources: A docking, admet and molecular dynamics study. Journal of Molecular Structure, 2021, 1228, 129433.	1.8	44
10	Evaluation of catecholase mimicking activity and apoptosis in human colorectal carcinoma cell line by activating mitochondrial pathway of copper(II) complex coupled with 2-(quinolin-8-yloxy)(methyl)benzimidazole and 8-hydroxyquinoline. Bioorganic Chemistry, 2021, 106, 104479.	2.0	19
11	Fabrication of a new 2D Co(II)-organic framework tuned by semi-flexible dicarboxylate and 1,4-bis(4-pyridinylmethyl)piperazine ligands: Topology, DFT/UB3LYP calculations, Hirshfeld surface analysis and magnetic studies. Journal of Molecular Structure, 2021, 1229, 129616.	1.8	4
12	A new copper(II)-based layered coordination polymer: Crystal structure, topology, QTAIM analysis, experimental and theoretical magnetic properties based on DFT combined with broken-symmetry formalism (BS-DFT). Polyhedron, 2021, 193, 114881.	1.0	15
13	Box-Behnken Assisted Validation and Optimization of an RP-HPLC Method for Simultaneous Determination of Domperidone and Lansoprazole. Separations, 2021, 8, 5.	1.1	6
14	Bromodomain and BET family proteins as epigenetic targets in cancer therapy: their degradation, present drugs, and possible PROTACs. RSC Advances, 2021, 11, 612-636.	1.7	7
15	Spectroscopic and molecular docking investigation of the binding of a bioactive mercaptobenzimidazole-functionalized Schiff base to human serum albumin. Chemical Papers, 2021, 75, 3535-3550.	1.0	5
16	Elucidation of DNA binding interaction of new Cu(II)/Zn(II) complexes derived from Schiff base and L-tryptophan amino acid: a multispectroscopic and molecular docking approach. Environmental Science and Pollution Research, 2021, 28, 44039-44050.	2.7	6
17	Crystal structure and Hirshfeld surface analysis of [2-(1H-benzimidazol-2-yl)-N,N'-diethyl-1,4-bis(4-pyridinylmethyl)piperazine] copper(II) complex. Acta Crystallographica Section E: Crystallographic Communications, 2021, 77, 491-494.	0.2	3
18	Crystal Structure, Topological and Hirshfeld Surface Analysis of a Zn(II) Zwitterionic Schiff Base Complex Exhibiting Nonlinear Optical (NLO) Properties Using Z-Scan Technique. Crystals, 2021, 11, 508.	1.0	14

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19	Molecular designing, crystal structure determination and in silico screening of copper(II) complexes bearing 8-hydroxyquinoline derivatives as anti-COVID-19. <i>Bioorganic Chemistry</i> , 2021, 110, 104772.	2.0	40
20	New isomeric pyridyl imine zinc(II) complexes as potential co-sensitizers for state of the Art N719 dye in DSSC. <i>Journal of Molecular Structure</i> , 2021, 1246, 131191.	1.8	5
21	Ligand substituent effect on the cytotoxicity activity of two new copper(II) complexes bearing 8-hydroxyquinoline derivatives: validated by MTT assay and apoptosis in MCF-7 cancer cell line (human breast cancer). <i>RSC Advances</i> , 2021, 11, 14362-14373.	1.7	19
22	Pharmaceutical product development: A quality by design (QbD) approach. , 2021, , 131-146.		2
23	A New Piano-Stool Ruthenium(II) P-Cymene-Based Complex: Crystallographic, Hirshfeld Surface, DFT, and Luminescent Studies. <i>Crystals</i> , 2021, 11, 13.	1.0	5
24	Synthesis and characterization of heterobimetallic SnIV/CuII/ZnII complexes: DFT studies, cleavage potential and cytotoxic activity. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 1130-1142.	2.0	10
25	Global impacts of pre- and post-COVID-19 pandemic: Focus on socio-economic consequences. <i>Sensors International</i> , 2020, 1, 100042.	4.9	69
26	Bactericidal activity of silver nanoparticles: A mechanistic review. <i>Materials Science for Energy Technologies</i> , 2020, 3, 756-769.	1.0	153
27	A Three-Dimensional Pentanuclear Co(II) Coordination Polymer: Structural Topology, Hirshfeld Surface Analysis and Magnetic Properties. <i>ChemistrySelect</i> , 2020, 5, 13732-13737.	0.7	5
28	A fluorescent Cu(II) complex as a dual functional sensor for selective and sensitive detection of acetone and Cd(II) pollutants. <i>RSC Advances</i> , 2020, 10, 42137-42146.	1.7	6
29	Mononuclear High-Spin Octahedral Cobalt(II) Complex with Positive Axial Magnetic Anisotropy: Synthesis, Crystal Structure, and DFT Studies. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2020, 646, 1205-1211.	0.6	6
30	Newly designed Mn(III)-W(V) bimetallic assembly built by manganese(III) Schiff-base and octacyanotungstate(V) building blocks: Structural topologies, and magnetic features. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5914.	1.7	5
31	Experimental Sensing and DFT Mechanism of Zn(II) Complex for Highly Sensitive and Selective Detection of Acetone. <i>Crystals</i> , 2020, 10, 324.	1.0	2
32	Crystal structure and Hirshfeld surface analysis of diethyl 5-(2-cyanophenoxy)isophthalate. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2020, 76, 905-908.	0.2	3
33	Pharmaceutical application of cellulose derivatives. , 2020, , 305-328.		0
34	Carbohydrate-based heteronuclear complexes as topoisomerase II α inhibitor: approach toward anticancer chemotherapeutics. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019, 37, 1494-1510.	2.0	15
35	Synthesis and structure elucidation of new open cubane tetranuclear [Cu II 4] Cluster: Evaluation of the DNA/HSA interaction and pBR322 DNA cleavage pathway and cytotoxicity. <i>Inorganica Chimica Acta</i> , 2017, 463, 142-155.	1.2	10
36	Piperine Triggers Apoptosis of Human Oral Squamous Carcinoma Through Cell Cycle Arrest and Mitochondrial Oxidative Stress. <i>Nutrition and Cancer</i> , 2017, 69, 791-799.	0.9	47

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37	Microwave based oxidation process for recycling the off-specification (U,Pu)O ₂ fuel pellets. Journal of Nuclear Materials, 2017, 484, 81-90.	1.3	4
38	A promising strategy for improved solubilization of ionic drugs simply by electrostatic pushing. RSC Advances, 2017, 7, 43551-43559.	1.7	7
39	Synthesis of uranium-di-oxide nanoparticles by pulsed laser ablation in ethanol and their characterisation. Nano Structures Nano Objects, 2016, 7, 75-80.	1.9	5
40	A novel method for stoichiometric reduction of (U ₃ O ₈ ,PuO ₂) and its controlled oxidation using microwave. Journal of Nuclear Materials, 2016, 479, 145-151.	1.3	3
41	Synthesis and crystal structure determination of cobalt(II) mixed-ligand complex containing 1,10-phenanthroline and 5-(2-carboxybenzyloxy)isophthalic acid: Their biological evaluation viz. DNA/protein binding profile, pBR322 DNA cleavage activity. Inorganica Chimica Acta, 2016, 451, 216-226.	1.2	4
42	Synthesis and crystal structure elucidation of new copper(II)-based chemotherapeutic agent coupled with 1,2-DACH and orthovanillin: Validated by in vitro DNA/HSA binding profile and pBR322 cleavage pathway. Journal of Photochemistry and Photobiology B: Biology, 2016, 161, 318-327.	1.7	15
43	Relocation of a biological photosensitizer from non-ionic micellar carrier to DNA: A multispectroscopic investigation. Biophysical Chemistry, 2016, 219, 75-81.	1.5	4
44	Quality control of (Th,Pu)O ₂ fuel pellet obtained by coated agglomerate pelletization. Journal of Radioanalytical and Nuclear Chemistry, 2016, 308, 495-503.	0.7	10
45	Impurity analysis and dissolution behaviour of plutonium bearing impure MOX scrap: an assessment of recycling feasibility. Journal of Radioanalytical and Nuclear Chemistry, 2016, 309, 1159-1168.	0.7	7
46	Endogenous Activation-Induced Delivery of a Bioactive Photosensitizer from a Micellar Carrier to Natural DNA. Journal of Physical Chemistry B, 2016, 120, 11492-11501.	1.2	14
47	Laser etching of austenitic stainless steels for micro-structural evaluation. Optics and Laser Technology, 2015, 69, 172-179.	2.2	5
48	Enantiomeric fluoro-substituted benzothiazole Schiff base-valine Cu(II)/Zn(II) complexes as chemotherapeutic agents: DNA binding profile, cleavage activity, MTT assay and cell imaging studies. Journal of Photochemistry and Photobiology B: Biology, 2015, 143, 61-73.	1.7	36
49	Synthesis and crystal structure determination of a mononuclear cobalt(II) complex derived from 4-(pyridin-4-ylmethoxy)-benzoic acid: evaluation of the DNA/protein interaction and photo-induced pBR322 DNA cleavage. RSC Advances, 2015, 5, 35843-35851.	1.7	13
50	Nuclear blebbing of biologically active organoselenium compound towards human cervical cancer cell (HeLa): In vitro DNA/HSA binding, cleavage and cell imaging studies. European Journal of Medicinal Chemistry, 2015, 90, 876-888.	2.6	61
51	Synthesis and structure elucidation of a cobalt(II) complex as topoisomerase I inhibitor: In vitro DNA binding, nuclease and RBC hemolysis. European Journal of Medicinal Chemistry, 2014, 74, 683-693.	2.6	36
52	New modulated design, docking and synthesis of carbohydrate-conjugate heterobimetallic Cu(II)-Sn(IV) complex as potential topoisomerase II inhibitor: In vitro DNA binding, cleavage and cytotoxicity against human cancer cell lines. European Journal of Medicinal Chemistry, 2014, 74, 694-702.	2.6	17
53	Synthesis and characterization of Cu(II)-based anticancer chemotherapeutic agent targeting topoisomerase II: In vitro DNA binding, pBR322 cleavage, molecular docking studies and cytotoxicity against human cancer cell lines. European Journal of Medicinal Chemistry, 2014, 74, 509-523.	2.6	51
54	In vitro DNA binding, pBR322 plasmid cleavage and molecular modeling study of chiral benzothiazole Schiff-base-valine Cu(II) and Zn(II) complexes to evaluate their enantiomeric biological disposition for molecular target DNA. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 131, 625-635.	2.0	23

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55	Synthesis and structure elucidation of a copper(II) Schiff-base complex: In vitro DNA binding, pBR322 plasmid cleavage and HSA binding studies. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 140, 321-331.	1.7	66
56	Synthesis, structure elucidation and DFT studies of a new coumarin-derived Zn(II) complex: in vitro DNA/HSA binding profile and pBR322 cleavage pathway. <i>RSC Advances</i> , 2014, 4, 43504-43515.	1.7	11
57	Synthesis and crystal structure determination of copper(II)-complex: In vitro DNA and HSA binding, pBR322 plasmid cleavage, cell imaging and cytotoxic studies. <i>European Journal of Medicinal Chemistry</i> , 2014, 83, 141-154.	2.6	56
58	Development of recycling processes for clean rejected MOX fuel pellets. <i>Nuclear Engineering and Design</i> , 2014, 270, 227-237.	0.8	6
59	Laser shock cleaning of radioactive particulates from glass surface. <i>Optics and Lasers in Engineering</i> , 2014, 57, 114-120.	2.0	32
60	Design and synthesis of new Zn(II) nalidixic acid-DACH based Topo-II inhibiting molecular entity: Chemotherapeutic potential validated by its in vitro binding profile, pBR322 cleavage activity and molecular docking studies with DNA and RNA molecular targets. <i>Inorganica Chimica Acta</i> , 2014, 421, 26-37.	1.2	28
61	New modulated design and synthesis of quercetin-Cu(II)/Zn(II)-Sn(IV) scaffold as anticancer agents: in vitro DNA binding profile, DNA cleavage pathway and Topo-I activity. <i>Dalton Transactions</i> , 2013, 42, 10029.	1.6	84
62	Laser-Assisted Decontamination of Fuel Pins for Prototype Fast Breeder Reactor. <i>Nuclear Technology</i> , 2013, 182, 242-247.	0.7	12
63	Synthesis and characterization of copper(II) and zinc(II)-based potential chemotherapeutic compounds: Their biological evaluation viz. DNA binding profile, cleavage and antimicrobial activity. <i>European Journal of Medicinal Chemistry</i> , 2012, 58, 308-316.	2.6	110
64	DNA binding and cleavage studies of new sulfasalazine-derived dipeptide Zn(II) complex: Validation for specific recognition with 5'-TMP. <i>Journal of Luminescence</i> , 2012, 132, 3058-3065.	1.5	20
65	Synthesis, characterization, biological studies (DNA binding, cleavage, antibacterial and) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 503</i> <i>Photochemistry and Photobiology B: Biology</i> , 2012, 114, 15-26.	1.7	123
66	Synthesis, characterization and interaction studies of copper based drug with Human Serum Albumin (HSA): Spectroscopic and molecular docking investigations. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2012, 114, 132-139.	1.7	167
67	New heterobimetallic complex as potential topoisomerase I inhibitor: In vitro DNA binding, cleavage and cytotoxicity against human cancer cell lines. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2012, 115, 63-72.	1.7	43
68	Interaction and photo-induced cleavage studies of a copper based chemotherapeutic drug with human serum albumin: spectroscopic and molecular docking study. <i>Molecular BioSystems</i> , 2012, 8, 2424.	2.9	113
69	Enantiomeric Specificity of Biologically Significant Cu(II) and Zn(II) Chromone Complexes Towards DNA. <i>Chirality</i> , 2012, 24, 977-986.	1.3	23
70	Molecular drug design, synthesis and structure elucidation of a new specific target peptide based metallo drug for cancer chemotherapy as topoisomerase I inhibitor. <i>Dalton Transactions</i> , 2012, 41, 4955.	1.6	73
71	Molecular drug design, synthesis and crystal structure determination of Cu(II)-Sn(IV) heterobimetallic core: DNA binding and cleavage studies. <i>European Journal of Medicinal Chemistry</i> , 2012, 49, 141-150.	2.6	70
72	Development of Impregnated Agglomerate Pelletization (IAP) process for fabrication of (Th,U)O ₂ mixed oxide pellets. <i>Journal of Nuclear Materials</i> , 2012, 420, 1-8.	1.3	19

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73	CO2 laser assisted removal of UO2 and ThO2 particulates from metal surface. Applied Surface Science, 2011, 257, 7263-7267.	3.1	10
74	5-[(E)-(2-Hydroxybenzylidene)amino]-1H-1,3-benzimidazole-2(3H)-thione. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o144-o145.	0.2	1
75	Consanguineous Marriage Among Social and Occupational Groups in North India. Journal of Human Ecology: International, Interdisciplinary Journal of Man-environment Relationship, 1997, 8, 229-232.	0.1	0
76	Inbreeding Effects on Fingerprint Pattern Among Qureshi Muslims and Other Indian Populations. Journal of Human Ecology: International, Interdisciplinary Journal of Man-environment Relationship, 1996, 7, 41-44.	0.1	2
77	Inbreeding and congenital heart diseases in a North Indian population. Clinical Genetics, 1994, 45, 288-291.	1.0	48