

Mohd Atif Faiz Afzal

List of Publications by Year in descending order

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77
papers

2,033
citations

279487

23
h-index

253896

43
g-index

77
all docs

77
docs citations

77
times ranked

2591
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Bactericidal activity of silver nanoparticles: A mechanistic review. <i>Materials Science for Energy Technologies</i> , 2020, 3, 756-769.	1.0	153
3	Synthesis, characterization, biological studies (DNA binding, cleavage, antibacterial and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 <i>Photochemistry and Photobiology B: Biology</i> , 2012, 114, 15-26.	1.7	123
4	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
5	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
6	New modulated design and synthesis of quercetinâ€“CuII/ZnIIâ€“Sn2IV 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
7	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
8	Molecular drug design, synthesis and crystal structure determination of Cullâ€“SnIV heterobimetallic core: DNA binding and cleavage studies. <i>European Journal of Medicinal Chemistry</i> , 2012, 49, 141-150.	2.6	70
9	Global impacts of pre- and post-COVID-19 pandemic: Focus on socio-economic consequences. <i>Sensors International</i> , 2020, 1, 100042.	4.9	69
10	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
11	Nuclear blebbing of biologically active organoselenium compound towards human cervical cancer cell (HeLa): In vitro DNA/HSA binding, cleavage and cell imaging studies. <i>European Journal of Medicinal Chemistry</i> , 2015, 90, 876-888.	2.6	61
12	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
13	Synthesis and characterization of Cu(II)-based anticancer chemotherapeutic agent targeting topoisomerase II α : In vitro DNA binding, pBR322 cleavage, molecular docking studies and cytotoxicity against human cancer cell lines. <i>European Journal of Medicinal Chemistry</i> , 2014, 74, 509-523.	2.6	51
14	Inbreeding and congenital heart diseases in a North Indian population. <i>Clinical Genetics</i> , 1994, 45, 288-291.	1.0	48
15	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
16	Anti-COVID-19 terpenoid from marine sources: A docking, admet and molecular dynamics study. <i>Journal of Molecular Structure</i> , 2021, 1228, 129433.	1.8	44
17	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
18	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

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19	Synthesis and structure elucidation of a cobalt(II) complex as topoisomerase I inhibitor: In vitro DNA binding, nuclease and RBC hemolysis. <i>European Journal of Medicinal Chemistry</i> , 2014, 74, 683-693.	2.6	36
20	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. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015, 143, 61-73.	1.7	36
21	Laser shock cleaning of radioactive particulates from glass surface. <i>Optics and Lasers in Engineering</i> , 2014, 57, 114-120.	2.0	32
22	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
23	Impact of N-donor auxiliary ligands on two new Co(II)-based MOFs with N-heterocyclic ligands and a magnetism study. <i>New Journal of Chemistry</i> , 2022, 46, 11623-11631.	1.4	27
24	Enantiomeric Specificity of Biologically Significant Cu(II) and Zn(II) Chromone Complexes Towards DNA. <i>Chirality</i> , 2012, 24, 977-986.	1.3	23
25	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. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 131, 625-635.	2.0	23
26	DNA binding and cleavage studies of new sulfasalazine-derived dipeptide Zn(II) complex: Validation for specific recognition with 5'-TTP. <i>Journal of Luminescence</i> , 2012, 132, 3058-3065.	1.5	20
27	Construction of a 3D Metal-Organic Framework and Its Composite for Water Remediation via Selective Adsorption and Photocatalytic Degradation of Hazardous Dye. <i>ACS Omega</i> , 2022, 7, 24438-24451.	1.6	20
28	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
29	Evaluation of catalase 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)benzotrile and 8-hydroxyquinoline. <i>Bioorganic Chemistry</i> , 2021, 106, 104479.	2.0	19
30	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
31	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. <i>European Journal of Medicinal Chemistry</i> , 2014, 74, 694-702.	2.6	17
32	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. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 161, 318-327.	1.7	15
33	Carbohydrate-based heteronuclear complexes as topoisomerase II inhibitor: approach toward anticancer chemotherapeutics. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019, 37, 1494-1510.	2.0	15
34	A new copper(II)-based layered coordination polymer: Crystal structure, topology, QAIM analysis, experimental and theoretical magnetic properties based on DFT combined with broken-symmetry formalism (BS-DFT). <i>Polyhedron</i> , 2021, 193, 114881.	1.0	15
35	Crystal Structure, Topological and Hirshfeld Surface Analysis of a Zn(II) Zwitterionic Schiff Base Complex Exhibiting Nonlinear Optical (NLO) Properties Using Z-Scan Technique. <i>Crystals</i> , 2021, 11, 508.	1.0	14
36	Endogenous Activation-Induced Delivery of a Bioactive Photosensitizer from a Micellar Carrier to Natural DNA. <i>Journal of Physical Chemistry B</i> , 2016, 120, 11492-11501.	1.2	14

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37	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. <i>RSC Advances</i> , 2015, 5, 35843-35851.	1.7	13
38	Laser-Assisted Decontamination of Fuel Pins for Prototype Fast Breeder Reactor. <i>Nuclear Technology</i> , 2013, 182, 242-247.	0.7	12
39	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
40	CO ₂ laser assisted removal of UO ₂ and ThO ₂ particulates from metal surface. <i>Applied Surface Science</i> , 2011, 257, 7263-7267.	3.1	10
41	Quality control of (Th,Pu)O ₂ fuel pellet obtained by coated agglomerate pelletization. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016, 308, 495-503.	0.7	10
42	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
43	Synthesis and characterization of heterobimetallic SnIV μ -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
44	Impurity analysis and dissolution behaviour of plutonium bearing impure MOX scrap: an assessment of recycling feasibility. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016, 309, 1159-1168.	0.7	7
45	A promising strategy for improved solubilization of ionic drugs simply by electrostatic pushing. <i>RSC Advances</i> , 2017, 7, 43551-43559.	1.7	7
46	Bromodomain and BET family proteins as epigenetic targets in cancer therapy: their degradation, present drugs, and possible PROTACs. <i>RSC Advances</i> , 2021, 11, 612-636.	1.7	7
47	Ferrocenyl μ -pyridylimine derived d ¹⁰ configuration complexes as prospective co-sensitizers in dye sensitized solar cells. <i>Applied Organometallic Chemistry</i> , 2022, 36, .	1.7	7
48	Structural elucidation and cytotoxicity profile of neocuproine-Cu(II) and Cu(I)-based chemotherapeutic agents: Effect of picric acid-derived cocrystals. <i>Polyhedron</i> , 2022, 220, 115848.	1.0	7
49	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. <i>Journal of Molecular Liquids</i> , 2022, 363, 119767.	2.3	7
50	Development of recycling processes for clean rejected MOX fuel pellets. <i>Nuclear Engineering and Design</i> , 2014, 270, 227-237.	0.8	6
51	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
52	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
53	Box-Behnken Assisted Validation and Optimization of an RP-HPLC Method for Simultaneous Determination of Domperidone and Lansoprazole. <i>Separations</i> , 2021, 8, 5.	1.1	6
54	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. <i>Environmental Science and Pollution Research</i> , 2021, 28, 44039-44050.	2.7	6

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55	Laser etching of austenitic stainless steels for micro-structural evaluation. Optics and Laser Technology, 2015, 69, 172-179.	2.2	5
56	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
57	A Three-Dimensional Pentanuclear Co(II) Coordination Polymer: Structural Topology, Hirshfeld Surface Analysis and Magnetic Properties. ChemistrySelect, 2020, 5, 13732-13737.	0.7	5
58	Newly designed Mn (III)-W(V) bimetallic assembly built by manganese (III) Schiff base and octacyanotungstate(V) building blocks: Structural topologies, and magnetic features. Applied Organometallic Chemistry, 2020, 34, e5914.	1.7	5
59	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
60	New isomeric pyridyl imine zinc(II) complexes as potential co-sensitizers for state of the Art N719 dye in DSSC. Journal of Molecular Structure, 2021, 1246, 131191.	1.8	5
61	A New Piano-Stool Ruthenium(II) P-Cymene-Based Complex: Crystallographic, Hirshfeld Surface, DFT, and Luminescent Studies. Crystals, 2021, 11, 13.	1.0	5
62	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
63	Relocation of a biological photosensitizer from non-ionic micellar carrier to DNA: A multispectroscopic investigation. Biophysical Chemistry, 2016, 219, 75-81.	1.5	4
64	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
65	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
66	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
67	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
68	Crystal structure and Hirshfeld surface analysis of [2-(1H-benzimidazol-2-yl)-N]Tj ETQqO O 0 rgBT /Overlock 10 Tf 50 227 Acta Crystallographica Section E: Crystallographic Communications, 2021, 77, 491-494.	0.2	3
69	Crystal structure and Hirshfeld surface analysis of diethyl 5-(2-cyanophenoxy)isophthalate. Acta Crystallographica Section E: Crystallographic Communications, 2020, 76, 905-908.	0.2	3
70	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
71	Experimental Sensing and DFT Mechanism of Zn(II) Complex for Highly Sensitive and Selective Detection of Acetone. Crystals, 2020, 10, 324.	1.0	2
72	Pharmaceutical product development: A quality by design (QbD) approach. , 2021, , 131-146.		2

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73	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
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	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
76	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
77	Pharmaceutical application of cellulose derivatives. , 2020, , 305-328.		0