

Muhammad Adnan Iqbal

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

98
papers

1,715
citations

20
h-index

38
g-index

104
ext. papers

2,016
ext. citations

2.7
avg, IF

4.98
L-index

#	Paper	IF	Citations
98	In-situ synthesis of mercury(II)-N-heterocyclic carbene complexes by using oxide route; structural characterization and their photo-catalytic degradation activity for dyes. <i>Journal of Organometallic Chemistry</i> , 2022 , 960, 122222	2.3	
97	Kinetics and mechanism of rhenium-ethylenediaminetetraacetic acid (Re(IV)-EDTA) complex degradation; For 99Tc-EDTA degradation in the natural environment. <i>Environmental Technology and Innovation</i> , 2022 , 27, 102492	7	
96	Surface-enhanced Raman spectral investigation of antibacterial activity of zinc 3-chlorobenzoic acid complexes against gram-positive and gram-negative bacteria. <i>Photodiagnosis and Photodynamic Therapy</i> , 2022 , 102941	3.5	0
95	Recent advances in the synthesis of zirconium complexes and their catalytic applications. <i>Journal of Molecular Structure</i> , 2021 , 131925	3.4	1
94	Raman spectroscopic characterization of selenium N-heterocyclic carbene compounds.. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 270, 120823	4.4	0
93	Synthesis in combination with Biological and Computational evaluations of selenium-N-Heterocyclic Carbene compounds. <i>Computational and Theoretical Chemistry</i> , 2021 , 1197, 113135	2	3
92	Comparative Exposure Assessment of Potential Health Risks through the Consumption of Vegetables Irrigated by Freshwater/Wastewater: Gujranwala, Pakistan. <i>Chemical Research in Toxicology</i> , 2021 , 34, 1417-1429	4	3
91	Techniques in the synthesis of organometallic compounds of Hafnium. <i>Reviews in Inorganic Chemistry</i> , 2021 ,	2.4	1
90	Potential of Gold Candidates against Human Colon Cancer. <i>Mini-Reviews in Medicinal Chemistry</i> , 2021 , 21, 69-78	3.2	1
89	An overview of synthetic methodologies of organometallic and coordination compounds of gold. <i>Journal of Coordination Chemistry</i> , 2021 , 74, 467-542	1.6	2
88	Recent advances in the synthesis of (99mTechnetium) based radio-pharmaceuticals. <i>Reviews in Inorganic Chemistry</i> , 2021 , 41, 151-198	2.4	1
87	Green synthesis of selenium based N-heterocyclic carbene compounds; structural, in-vitro anticancer and molecular docking studies. <i>Computational Biology and Chemistry</i> , 2021 , 94, 107567	3.6	3
86	Azolium mediated NHeterocyclic carbene selenium adducts: Synthesis, cytotoxicity and molecular docking studies. <i>Journal of Molecular Structure</i> , 2021 , 1241, 130701	3.4	3
85	Organometallic complexes of neodymium: an overview of synthetic methodologies based on coordinating elements. <i>Reviews in Inorganic Chemistry</i> , 2021 , 41, 77-130	2.4	0
84	Synthesis of aryl linked binuclear silver N-heterocyclic carbene complexes, DNA interaction study and biological potentials. <i>Inorganic Chemistry Communication</i> , 2020 , 119, 108077	3.1	14
83	Raman spectral characterization of silver metal-based complexes of different benzimidazolium ligands. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020 , 232, 118162	4.4	5
82	Synthesis, Structure, and Anticancer Activity of Symmetrical and Non-symmetrical Silver(I)-N-Heterocyclic Carbene Complexes. <i>Applied Biochemistry and Biotechnology</i> , 2020 , 191, 1171-1189	2.2	10

81	Recent advances in synthesis of organometallic complexes of indium. <i>Reviews in Inorganic Chemistry</i> , 2020 , 40, 107-151	2.4	1
80	Organotellurium compounds: an overview of synthetic methodologies. <i>Reviews in Inorganic Chemistry</i> , 2020 , 40, 193-232	2.4	10
79	Synthesis of sandwich type acyclic tetra-nuclear silver(I)-N-heterocyclic carbene complexes for wound healing applications. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2020 , 75, 369-376	1.7	2
78	In-situ approach for the synthesis of bromide-bridged mercury(II) N-heterocyclic carbene complexes. <i>Journal of Coordination Chemistry</i> , 2020 , 73, 1377-1388	1.6	1
77	Synthesis of New Organoselenium Compounds: Characterization and Biological Studies. <i>Macedonian Journal of Chemistry and Chemical Engineering</i> , 2020 , 39, 1	1.1	8
76	Synthesis of alkyl/aryl linked binuclear silver(I)-N-Heterocyclic carbene complexes and evaluation of their antimicrobial, hemolytic and thrombolytic potential. <i>Inorganic Chemistry Communication</i> , 2020 , 111, 107670	3.1	17
75	Theoretical calculation of selenium N-heterocyclic carbene compounds through DFT studies: Synthesis, characterization and biological potential. <i>Journal of Molecular Structure</i> , 2020 , 1204, 127462	3.4	11
74	Raman spectroscopy along with Principal Component Analysis for the confirmation of Silver(I)-N-heterocyclic carbene complex formation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020 , 228, 117851	4.4	5
73	Techniques in the synthesis of organometallic compounds of tungsten. <i>Reviews in Inorganic Chemistry</i> , 2020 , 40, 1-45	2.4	3
72	Bioactivity and DNA/BSA Interactions of Selenium N-Heterocyclic Carbene Adducts. <i>ChemistrySelect</i> , 2020 , 5, 10970-10981	1.8	6
71	Synthesis of needle like Mn-Zn bimetallic nanoparticles and its applications towards photocatalysis and as fuel additives. <i>International Journal of Environmental Analytical Chemistry</i> , 2020 , 1-16	1.8	1
70	Green synthesis of selenium-N-heterocyclic carbene compounds: Evaluation of antimicrobial and anticancer potential. <i>Bioorganic Chemistry</i> , 2019 , 90, 103042	5.1	20
69	Effect of ring substitution on synthesis of benzimidazolium salts and their silver(I) complexes: characterization, electrochemical studies and evaluation of anticancer potential. <i>Transition Metal Chemistry</i> , 2019 , 44, 431-443	2.1	12
68	Unsymmetrically substituted benzimidazolium based Silver(I)-N-heterocyclic carbene complexes: Synthesis, characterization and in vitro anticancer study against human breast cancer and colon cancer. <i>Journal of Saudi Chemical Society</i> , 2019 , 23, 795-808	4.3	18
67	Designation and Match of Non-Fullerene Acceptors with X-Shaped Donors toward Organic Solar Cells. <i>ChemistrySelect</i> , 2019 , 4, 3654-3664	1.8	8
66	Benchmark study of benzamide derivatives and four novel theoretically designed (L1, L2, L3, and L4) ligands and evaluation of their biological properties by DFT approaches. <i>Journal of Molecular Modeling</i> , 2019 , 25, 223	2	18
65	Polynuclear Ag(I)-N-heterocyclic carbene complexes: synthesis, electrochemical and in vitro anticancer study against human breast cancer and colon cancer. <i>Journal of Coordination Chemistry</i> , 2019 , 72, 2065-2079	1.6	9
64	Studies on green synthesized silver nanoparticles using <i>Abelmoschus esculentus</i> (L.) pulp extract having anticancer (in vitro) and antimicrobial applications. <i>Arabian Journal of Chemistry</i> , 2019 , 12, 2572-2584	5.9	58

63	Synthesis, structural elucidation and cytotoxicity of new thiosemicarbazone derivatives. <i>Arabian Journal of Chemistry</i> , 2019 , 12, 3183-3192	5.9	15
62	Antibacterial and DNA cleavage activity of carbonyl functionalized N-heterocyclic carbene-silver(I) and selenium compounds. <i>Journal of Molecular Structure</i> , 2018 , 1155, 362-370	3.4	19
61	Cytotoxic and Pro-Apoptotic Properties of Ethyl-p-Methoxycinnamate and Its Hydrophilic Derivative Potassium-p-Methoxycinnamate. <i>Chemistry Africa</i> , 2018 , 1, 87-95	2.2	4
60	Therapeutic applications of selenium-derived compounds. <i>Reviews in Inorganic Chemistry</i> , 2018 , 38, 49-76.4	7.4	13
59	Modern Techniques in Synthesis of Organometallic Compounds of Germanium 2018 ,		1
58	Anticancer, antimicrobial and antioxidant potential of sterically tuned bis-N-heterocyclic salts. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2018 , 74, 17-23	1.7	5
57	Bis-N-heterocyclic carbene silver(I) and palladium(II) complexes: Efficient antiproliferative agents against breast cancer cells. <i>Inorganic and Nano-Metal Chemistry</i> , 2017 , 47, 131-137	1.2	20
56	Coordination Complexes of Manganese and Their Biomedical Applications. <i>ChemistrySelect</i> , 2017 , 2, 1586-1604.21	16.4	21
55	A new approach for the synthesis of tetrabenzimidazolium salt as a precursor for the tetra-N-heterocyclic carbene dinuclear silver(I) complex. <i>Journal of Organometallic Chemistry</i> , 2017 , 831, 50-54	2.3	11
54	Techniques in the synthesis of mononuclear manganese complexes: a review. <i>Reviews in Inorganic Chemistry</i> , 2017 , 37, 105-130	2.4	4
53	Tetra N-heterocyclic carbene dinuclear silver(I) complexes as potential anticancer agents: Synthesis and in vitro anticancer studies. <i>Journal of Organometallic Chemistry</i> , 2017 , 853, 122-135	2.3	14
52	Colorectal, Prostate and Pancreas Human Cancers Targeted Bioassay-guided Isolations and Characterization of Chemical Constituents from <i>Tephrosia apollinea</i> . <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2017 , 17, 590-598	2.2	2
51	Designing the angiogenic inhibitor for brain tumor via disruption of VEGF and IL17A expression. <i>European Journal of Pharmaceutical Sciences</i> , 2016 , 93, 304-18	5.1	6
50	Human colon cancer targeted pro-apoptotic, anti-metastatic and cytostatic effects of binuclear Silver(I)-N-Heterocyclic carbene (NHC) complexes. <i>European Journal of Medicinal Chemistry</i> , 2016 , 108, 177-187	6.8	44
49	Green synthesis of mono- and di-selenium-N-heterocyclic carbene adducts: Characterizations, crystal structures and pro-apoptotic activities against human colorectal cancer. <i>Journal of Organometallic Chemistry</i> , 2016 , 801, 130-138	2.3	18
48	Genetic analysis of drought tolerance with respect to fiber traits in upland cotton. <i>Genetics and Molecular Research</i> , 2016 , 15,	1.2	4
47	Effect of crystallization of caffeic acid enhanced stability and dual biological efficacy. <i>Cogent Biology</i> , 2016 , 2, 1243460	1.6	4
46	Accumulation of Residual Antibiotics in the Vegetables Irrigated by Pharmaceutical Wastewater. <i>Exposure and Health</i> , 2016 , 8, 107-115	8.8	26

45	Scopoletin, an active principle of tree tobacco (<i>Nicotiana glauca</i>) inhibits human tumor vascularization in xenograft models and modulates ERK1, VEGF-A, and FGF-2 in computer model. <i>Microvascular Research</i> , 2016 , 107, 17-33	3.7	30
44	Synthesis, crystal structure, in vitro anticancer and in vivo acute oral toxicity studies of tetramethylene linked bis-benzimidazolium salts and their respective dinuclear Ag(I)-NHC complexes. <i>Journal of Coordination Chemistry</i> , 2016 , 69, 3367-3383	1.6	9
43	Computational study of Cu ₂ ZnSn(X ₁ -Tex) ₄ (X = S, Se) for optoelectronic applications. <i>International Journal of Modern Physics B</i> , 2016 , 30, 1650137	1.1	4
42	Synthesis and structural elucidation of two new series of aurone derivatives as potent inhibitors against the proliferation of human cancer cells. <i>Medicinal Chemistry Research</i> , 2015 , 24, 3504-3515	2.2	7
41	Asynthesis, Crystal Structures and in Vitro Anticancer Studies of New Thiosemicarbazone Derivatives. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2015 , 190, 1498-1508	1	9
40	Monitoring the Key Components and Elimination of Asphaltenes Precipitation in Crude by a New Alternative Route. <i>Petroleum Science and Technology</i> , 2015 , 33, 1449-1453	1.4	
39	Silver(I) complexes of mono- and bidentate N-heterocyclic carbene ligands: synthesis, crystal structures, and in vitro antibacterial and anticancer studies. <i>European Journal of Medicinal Chemistry</i> , 2015 , 90, 82-92	6.8	81
38	The Anticancer, Antioxidant and Antimicrobial Properties of the Sesquiterpene Caryophyllene from the Essential Oil of <i>Aquilaria crassna</i> . <i>Molecules</i> , 2015 , 20, 11808-29	4.8	342
37	Synthesis, spectroscopic characterization, single crystal X-ray determination and cytotoxicity activity against human breast cancer (MCF-7) and colon cancer (HCT 116) cell lines of silver(I) coordination polymer. <i>Polyhedron</i> , 2015 , 97, 188-196	2.7	8
36	Synthesis, characterization and antibacterial activity of a curcumin-silver(I) complex. <i>Journal of Coordination Chemistry</i> , 2015 , 68, 1088-1100	1.6	14
35	Synthesis, crystal structures and spectroscopic properties of two new organotin (IV) complexes and their antiproliferative effect against cancerous and non-cancerous cells. <i>Comptes Rendus Chimie</i> , 2015 , 18, 137-148	2.7	9
34	Macrophage and colon tumor cells as targets for a binuclear silver(I) N-heterocyclic carbene complex, an anti-inflammatory and apoptosis mediator. <i>Journal of Inorganic Biochemistry</i> , 2015 , 146, 1-13	4.2	51
33	Crystal Structures and Cytotoxicity of Ortho-Xylene Linked Bis-benzimidazolium Salts. <i>Medicinal Chemistry</i> , 2015 , 11, 473-81	1.8	3
32	Synthesis of water soluble copper(II) complexes: crystal structures, DNA binding, oxidative DNA cleavage, and in vitro anticancer studies. <i>Medicinal Chemistry Research</i> , 2014 , 23, 2347-2359	2.2	15
31	Increased aqueous solubility and proapoptotic activity of potassium koetjapate against human colorectal cancer cells. <i>Journal of Pharmacy and Pharmacology</i> , 2014 , 66, 1394-409	4.8	18
30	Synthesis and Cytotoxicity of Dinuclear Silver(I)-N-Heterocyclic Carbene Complexes. <i>Biochemistry and Analytical Biochemistry: Current Research</i> , 2014 , 3,		1
29	Polymeric seven-coordinated organotin(IV) complexes derived from 5-amino-2-chlorobenzoic acid and in vitro anti-cancer studies. <i>Journal of Coordination Chemistry</i> , 2014 , 67, 3401-3413	1.6	12
28	Crystal structure elucidation and anticancer studies of (-)-pseudosemiglabrin: a flavanone isolated from the aerial parts of <i>Tephrosia apollinea</i> . <i>PLoS ONE</i> , 2014 , 9, e90806	3.7	16

27	Potential of silver against human colon cancer: (synthesis, characterization and crystal structures of xylyl (Ortho, meta, &Para) linked bis-benzimidazolium salts and Ag(I)-NHC complexes: In vitro anticancer studies). <i>Chemistry Central Journal</i> , 2013 , 7, 27		49
26	Synthesis, structure, anticancer, and antioxidant activity of para-xylyl linked bis-benzimidazolium salts and respective dinuclear Ag(I) N-heterocyclic carbene complexes (Part-II). <i>Medicinal Chemistry Research</i> , 2013 , 22, 4663-4676	2.2	49
25	Binuclear meta-xylyl-linked Ag(I)-N-heterocyclic carbene complexes of N-alkyl/aryl-alkyl-substituted bis-benzimidazolium salts: synthesis, crystal structures and in vitro anticancer studies. <i>Applied Organometallic Chemistry</i> , 2013 , 27, 214-223	3.1	43
24	Short metal-metal separations and in vitro anticancer studies of a new dinuclear silver(I)-N-heterocyclic carbene complex of para-xylyl-linked bis-benzimidazolium salt. <i>Inorganic Chemistry Communication</i> , 2013 , 28, 64-69	3.1	43
23	Synthesis and anticancer activity of para-xylyl linked bis-benzimidazolium salts and respective Ag(I) N-heterocyclic carbene complexes. <i>Medicinal Chemistry Research</i> , 2013 , 22, 2455-2466	2.2	55
22	Synthesis of metal(II) [M = Cu, Mn, Zn] Schiff base complexes and their Pro-apoptotic activity in liver tumor cells via caspase activation. <i>Medicinal Chemistry Research</i> , 2013 , 22, 4727-4736	2.2	13
21	Synthesis, crystal structures, in vitro anticancer, and in vivo acute oral toxicity studies of bis-imidazolium/benzimidazolium salts and respective dinuclear Ag(I)-N-heterocyclic carbene complexes. <i>Journal of Coordination Chemistry</i> , 2013 , 66, 3211-3228	1.6	27
20	Synthesis, Characterization, and Crystal Structures of Bis-Imidazolium Salts and Respective Dinuclear Ag(I)N-Heterocyclic Carbene Complexes:In VitroAnticancer Studies against Human Colon Cancerand Breast Cancer. <i>Journal of Chemistry</i> , 2013 , 2013, 1-11	2.3	12
19	A new dinuclear Ag(I)-N-heterocyclic carbene complex derived from para-xylyl linked bis-imidazolium salt: synthesis, crystal structure, and in vitro anticancer studies. <i>Journal of Coordination Chemistry</i> , 2013 , 66, 2679-2692	1.6	20
18	Synthesis and Characterization of ortho-Xylyl Linked Bis-benzimidazolium Salts (Part-II). <i>Asian Journal of Chemistry</i> , 2013 , 25, 3049-3054	0.4	6
17	Design, synthesis and structural studies of meta-xylyl linked bis-benzimidazolium salts: potential anticancer agents against 'human colon cancer'. <i>Chemistry Central Journal</i> , 2012 , 6, 68		36
16	3,3'-[1,2-Phenyl-enebis(methyl-ene)]bis-(1-octylbenzimidazolium) dibromide monohydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012 , 68, o924-5		6
15	3,3'-[1,2-Phenyl-enebis(methyl-ene)]bis-(1-propyl-benzimidazolium) dibromide hemihydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012 , 68, o466-7		8
14	3,3'-[1,2-Phenyl-enebis(methyl-ene)]bis-(1-ethyl-benzimidazolium) dibromide. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012 , 68, o573		11
13	3,3'-[1,4-Phenyl-enebis(methyl-ene)]-bis-(1-propyl-benzimidazolium) dichloride dihydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012 , 68, o845-6		5
12	3,3'-[1,2-Phenyl-enebis(methyl-ene)]bis-(1-ethyl-1H-benzimidazol-1-ium) bis-(hexa-fluorophosphate). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012 , 68, o1635		3
11	Phytochemistry and medicinal properties of Kaempferia galanga L. (Zingiberaceae) extracts. <i>African Journal of Pharmacy and Pharmacology</i> , 2011 , 5, 1638-1647	0.5	25
10	A simulation study for assessing yield optimization and potential for water reduction for summer-sown maize under different climate change scenarios. <i>Journal of Agricultural Science</i> , 2011 , 149, 129-143	1	17

9	3,3'-[1,2-Phenyl-enebis(methyl-ene)]bis-(1-heptyl-benzimidazolium) dibromide monohydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011 , 67, o1814-5		9
8	2,4-Bis[(3-butyl-imidazol-3-ium-1-yl)meth-yl]-1,3,5-trimethyl-benzene bis-(hexa-fluoro-phosphate). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011 , 67, o562-3		1
7	1,3-Bis[(3-allyl-imidazol-3-ium-1-yl)meth-yl]benzene bis-(hexa-fluoridophosphate). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010 , 67, o80-1		
6	Characteristics on Fluidization Behaviors of 1000 μ m Cao-Sand Mixture by Varying the Percentage of CaO, Air Flow Rate and Pressure. <i>Journal of Applied Sciences</i> , 2010 , 10, 745-751	0.3	3
5	Anticancer Activity of Ag(I) N-Heterocyclic Carbene Complexes Derived from 4,5-Dichloro-1H-Imidazole. <i>Metal-Based Drugs</i> , 2008 , 2008, 384010		92
4	Solvent effect on morphology and CO ₂ /CH ₄ separation performance of asymmetric polycarbonate membranes. <i>Journal of Membrane Science</i> , 2008 , 318, 167-175	9.6	59
3	Estimation of genetic diversity among sunflower genotypes through random amplified polymorphic DNA analysis. <i>Genetics and Molecular Research</i> , 2008 , 7, 1408-13	1.2	5
2	Evaluation of Chemical Composition of Ethanolic Extract of <i>Rhazya stricta</i> and Its Total Phenolic and Flavonoid Contents. <i>Chemistry Africa</i> , 1	2.2	0
1	Surface-Enhanced Raman Spectroscopy for the Characterization of the Antibacterial Properties of Imidazole Derivatives against <i>Bacillus subtilis</i> with Principal Component Analysis and Partial Least Squares Discriminant Analysis. <i>Analytical Letters</i> , 1-15	2.2	0