

# Muhammad Adnan Iqbal

## List of Publications by Year in descending order

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102  
papers

2,413  
citations

236612

25  
h-index

233125

45  
g-index

104  
all docs

104  
docs citations

104  
times ranked

2908  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Anticancer, Antioxidant and Antimicrobial Properties of the Sesquiterpene Î²-Caryophyllene from the Essential Oil of <i>Aquilaria crassna</i> . <i>Molecules</i> , 2015, 20, 11808-11829.	1.7	526
2	Anticancer Activity of Ag(I) N-Heterocyclic Carbene Complexes Derived from 4,5-Dichloro-1H-Imidazole. <i>Metal-Based Drugs</i> , 2008, 2008, 1-7.	3.8	108
3	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.	2.6	107
4	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.	2.3	98
5	Solvent effect on morphology and CO <sub>2</sub> /CH <sub>4</sub> separation performance of asymmetric polycarbonate membranes. <i>Journal of Membrane Science</i> , 2008, 318, 167-175.	4.1	65
6	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.	1.1	64
7	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.	1.1	63
8	Potential of silver against human colon cancer: (synthesis, characterization and crystal structures) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50</i>	2.6	59
9	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.	1.5	58
10	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.	2.6	55
11	Binuclear meta-xylyl linked Ag(I)-N-heterocyclic carbene complexes of N-alkyl/aryl substituted bis-benzimidazolium salts: synthesis, crystal structures and in vitro anticancer studies. <i>Applied Organometallic Chemistry</i> , 2013, 27, 214-223.	1.7	46
12	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.	1.8	45
13	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.	1.1	43
14	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.	2.6	42
15	Accumulation of Residual Antibiotics in the Vegetables Irrigated by Pharmaceutical Wastewater. <i>Exposure and Health</i> , 2016, 8, 107-115.	2.8	38
16	Green synthesis of selenium-N-heterocyclic carbene compounds: Evaluation of antimicrobial and anticancer potential. <i>Bioorganic Chemistry</i> , 2019, 90, 103042.	2.0	38
17	Phytochemistry and medicinal properties of <i>Kaempferia galanga</i> L. (Zingiberaceae) extracts. <i>African Journal of Pharmacy and Pharmacology</i> , 2011, 5, 1638-1647.	0.2	37
18	Coordination Complexes of Manganese and Their Biomedical Applications. <i>ChemistrySelect</i> , 2017, 2, 1586-1604.	0.7	35

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19	Synthesis, crystal structures, <i>in vitro</i> anticancer, and <i>in vivo</i> 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.	0.8	32
20	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.	1.8	31
21	Therapeutic applications of selenium-derived compounds. <i>Reviews in Inorganic Chemistry</i> , 2018, 38, 49-76.	1.8	30
22	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.	1.4	28
23	Increased aqueous solubility and proapoptotic activity of potassium koetjapate against human colorectal cancer cells. <i>Journal of Pharmacy and Pharmacology</i> , 2014, 66, 1394-1409.	1.2	27
24	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.	1.8	26
25	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.	1.8	26
26	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.	0.8	25
27	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.	0.8	25
28	Unsymmetrically substituted benzimidazolium based Silver(I)-N-heterocyclic carbene complexes: Synthesis, characterization and <i>in vitro</i> anticancer study against human breast cancer and colon cancer. <i>Journal of Saudi Chemical Society</i> , 2019, 23, 795-808.	2.4	25
29	Synthesis of aryl linked binuclear silver N-heterocyclic carbene complexes, DNA interaction study and biological potentials. <i>Inorganic Chemistry Communication</i> , 2020, 119, 108077.	1.8	24
30	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.	0.6	23
31	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.	1.1	22
32	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.	0.9	22
33	A new dinuclear Ag(I)-N-heterocyclic carbene complex derived from <i>para</i> -xylyl linked <i>bis</i> -imidazolium salt: synthesis, crystal structure, and <i>in vitro</i> anticancer studies. <i>Journal of Coordination Chemistry</i> , 2013, 66, 2679-2692.	0.8	21
34	Synthesis, characterization and antibacterial activity of a curcumin-silver(I) complex. <i>Journal of Coordination Chemistry</i> , 2015, 68, 1088-1100.	0.8	20
35	Tetra N-heterocyclic carbene dinuclear silver(I) complexes as potential anticancer agents: Synthesis and <i>in vitro</i> anticancer studies. <i>Journal of Organometallic Chemistry</i> , 2017, 853, 122-135.	0.8	20
36	Polynuclear Ag(I)-N-heterocyclic carbene complexes: synthesis, electrochemical and <i>in vitro</i> anticancer study against human breast cancer and colon cancer. <i>Journal of Coordination Chemistry</i> , 2019, 72, 2065-2079.	0.8	17

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37	Synthesis, structural elucidation and cytotoxicity of new thiosemicarbazone derivatives. <i>Arabian Journal of Chemistry</i> , 2019, 12, 3183-3192.	2.3	17
38	Organotellurium compounds: an overview of synthetic methodologies. <i>Reviews in Inorganic Chemistry</i> , 2020, 40, 193-232.	1.8	17
39	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.	1.1	16
40	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.	1.1	16
41	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.	0.7	16
42	Synthesis of New Organoselenium Compounds: Characterization and Biological Studies. <i>Macedonian Journal of Chemistry and Chemical Engineering</i> , 2020, 39, 1.	0.2	16
43	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.	0.8	14
44	Bioactivity and DNA/BSA Interactions of Selenium N-Heterocyclic Carbene Adducts. <i>ChemistrySelect</i> , 2020, 5, 10970-10981.	0.7	14
45	Synthesis, Characterization, and Crystal Structures of Bis-Imidazolium Salts and Respective Dinuclear Ag(I)-N-Heterocyclic Carbene Complexes: In Vitro Anticancer Studies against Human Colon Cancer and Breast Cancer. <i>Journal of Chemistry</i> , 2013, 2013, 1-11.	0.9	13
46	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.	0.8	13
47	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.	1.1	13
48	3,3'-[1,2-Phenylenebis(methylene)]bis(1-ethylbenzimidazolium) dibromide. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o573-o573.	0.2	11
49	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.	0.8	11
50	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.	1.0	10
51	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.	0.2	10
52	Asynthesis, Crystal Structures and in Vitro Anticancer Studies of New Thiosemicarbazone Derivatives. Phosphorus, Sulfur and Silicon and the Related Elements, 2015, 190, 1498-1508.	0.8	10
53	Designation and Match of Non-Fullerene Acceptors with X-Shaped Donors toward Organic Solar Cells. <i>ChemistrySelect</i> , 2019, 4, 3654-3664.	0.7	10
54	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.	2.0	10

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55	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> , 2022, 55, 2132-2146.	1.0	10
56	3,3'-[1,2-Phenylenebis(methylene)]bis(1-heptylbenzimidazolium) dibromide monohydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011, 67, o1814-o1815.	0.2	9
57	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.	2.0	9
58	Azolium mediated N Heterocyclic carbene selenium adducts: Synthesis, cytotoxicity and molecular docking studies. <i>Journal of Molecular Structure</i> , 2021, 1241, 130701.	1.8	9
59	3,3'-[1,2-Phenylenebis(methylene)]bis(1-propylbenzimidazolium) dibromide hemihydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o466-o467.	0.2	8
60	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.	0.6	8
61	Recent advances in the synthesis of ( <sup>99m</sup> Tc) based radio-pharmaceuticals. <i>Reviews in Inorganic Chemistry</i> , 2021, 41, 151-198.	1.8	8
62	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.	1.7	8
63	Synthesis and Characterization of ortho-Xylyl Linked Bis-benzimidazolium Salts (Part-II). <i>Asian Journal of Chemistry</i> , 2013, 25, 3049-3054.	0.1	7
64	Synthesis in combination with Biological and Computational evaluations of selenium-N-Heterocyclic Carbene compounds. <i>Computational and Theoretical Chemistry</i> , 2021, 1197, 113135.	1.1	7
65	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.	1.1	7
66	Estimation of genetic diversity among sunflower genotypes through random amplified polymorphic DNA analysis. <i>Genetics and Molecular Research</i> , 2008, 7, 1408-1413.	0.3	7
67	Raman spectroscopic characterization of selenium N-heterocyclic carbene compounds. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 270, 120823.	2.0	7
68	3,3'-[1,2-Phenylenebis(methylene)]bis(1-octylbenzimidazolium) dibromide monohydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o924-o925.	0.2	6
69	Designing the angiogenic inhibitor for brain tumor via disruption of VEGF and IL17A expression. <i>European Journal of Pharmaceutical Sciences</i> , 2016, 93, 304-318.	1.9	6
70	Cytotoxic and Pro-Apoptotic Properties of Ethyl-p-Methoxycinnamate and Its Hydrophilic Derivative Potassium-p-Methoxycinnamate. <i>Chemistry Africa</i> , 2018, 1, 87-95.	1.2	6
71	3,3'-[1,4-Phenylenebis(methylene)]bis(1-propylbenzimidazolium) dichloride dihydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o845-o846.	0.2	5
72	Effect of crystallization of caffeic acid enhanced stability and dual biological efficacy. <i>Cogent Biology</i> , 2016, 2, 1243460.	1.7	5

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73	Techniques in the synthesis of mononuclear manganese complexes: a review. <i>Reviews in Inorganic Chemistry</i> , 2017, 37, 105-130.	1.8	5
74	Alpha Tocopherol Application as Seed Priming Alters Antioxidative Defense System of Okra Against Salinity Stress. <i>Polish Journal of Environmental Studies</i> , 2021, 30, 4143-4152.	0.6	5
75	Genetic analysis of drought tolerance with respect to fiber traits in upland cotton. <i>Genetics and Molecular Research</i> , 2016, 15, .	0.3	4
76	Computational study of $Cu_2ZnSn(X_1\hat{a}^{\sim}xTex)_4$ ( $X = S, \hat{A}Se$ ) for optoelectronic applications. <i>International Journal of Modern Physics B</i> , 2016, 30, 1650137.	1.0	4
77	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> , 2022, 102, 7617-7632.	1.8	4
78	Recent advances in synthesis of organometallic complexes of indium. <i>Reviews in Inorganic Chemistry</i> , 2020, 40, 107-151.	1.8	4
79	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.	0.9	4
80	$3,3\hat{a}^{\sim}2$ -[1,2-Phenylenebis(methylene)]bis(1-ethyl-1H-benzimidazol-1-ium) bis(hexafluorophosphate). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o1635-o1635.	0.2	3
81	Techniques in the synthesis of organometallic compounds of tungsten. <i>Reviews in Inorganic Chemistry</i> , 2020, 40, 1-45.	1.8	3
82	Synthesis of sandwich type acyclic tetra-nuclear silver(I)- <i>N</i> -heterocyclic carbene complexes for wound healing applications. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2020, 75, 369-376.	0.6	3
83	Crystal Structures and Cytotoxicity of Ortho-Xylene Linked Bis-benzimidazolium Salts. <i>Medicinal Chemistry</i> , 2015, 11, 473-481.	0.7	3
84	Characteristics on Fluidization Behaviors of 1000 $\hat{1}4$ 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.	0.1	3
85	<i>In-situ</i> approach for the synthesis of bromide-bridged mercury(II) <i>N</i> -heterocyclic carbene complexes. <i>Journal of Coordination Chemistry</i> , 2020, 73, 1377-1388.	0.8	3
86	Recent advances in the synthesis of zirconium complexes and their catalytic applications. <i>Journal of Molecular Structure</i> , 2021, , 131925.	1.8	3
87	Comparative Study of Macro-elements (P, Na and K) in the Edible Part of Vegetables Irrigated with Sewage, Canal and Tube Well Water. <i>Asian Journal of Chemistry</i> , 2013, 25, 835-837.	0.1	2
88	Potential of Gold Candidates against Human Colon Cancer. <i>Mini-Reviews in Medicinal Chemistry</i> , 2021, 21, 69-78.	1.1	2
89	An overview of synthetic methodologies of organometallic and coordination compounds of gold. <i>Journal of Coordination Chemistry</i> , 2021, 74, 467-542.	0.8	2
90	Dative behavior of <i>N</i> -heterocyclic carbenes (NHCs) with selenium in Se-NHC compounds. <i>Reviews in Inorganic Chemistry</i> , 2022, 42, 229-238.	1.8	2

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91	Evaluation of Chemical Composition of Ethanolic Extract of <i>Rhazya stricta</i> and Its Total Phenolic and Flavonoid Contents. <i>Chemistry Africa</i> , 2022, 5, 533-542.	1.2	2
92	<i>In-vitro</i> anticancer profile of recent ruthenium complexes against liver cancer. <i>Reviews in Inorganic Chemistry</i> , 2022, .	1.8	2
93	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, 39, 102941.	1.3	2
94	2,4-Bis[(3-butylimidazol-3-ium-1-yl)methyl]-1,3,5-trimethylbenzene bis(hexafluorophosphate). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011, 67, o562-o563.	0.2	1
95	Synthesis and Cytotoxicity of Dinuclear Silver(I)-N-Heterocyclic Carbene Complexes. <i>Biochemistry and Analytical Biochemistry: Current Research</i> , 2014, 3, .	0.4	1
96	Modern Techniques in Synthesis of Organometallic Compounds of Germanium. , 2018, , .		1
97	Techniques in the synthesis of organometallic compounds of Hafnium. <i>Reviews in Inorganic Chemistry</i> , 2021, .	1.8	1
98	Organometallic complexes of neodymium: an overview of synthetic methodologies based on coordinating elements. <i>Reviews in Inorganic Chemistry</i> , 2021, 41, 77-130.	1.8	1
99	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.	0.8	1
100	1,3-Bis[(3-allylimidazol-3-ium-1-yl)methyl]benzene bis(hexafluoridophosphate). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011, 67, o80-o81.	0.2	0
101	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.	0.7	0
102	Kinetics and mechanism of rhenium-ethylenediaminetetraacetic acid (Re(IV)-EDTA) complex degradation; For <sup>99</sup> Tc-EDTA degradation in the natural environment. <i>Environmental Technology and Innovation</i> , 2022, 27, 102492.	3.0	0