Umar Ali Khan

List of Publications by Year
in descending order

69	5,771	361045 20	106150 65
papers	citations	h-index	g-index

72	72	72	6239
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Phytoremediation of heavy metalsâ€"Concepts and applications. Chemosphere, 2013, 91, 869-881.	4.2	2,665
2	Environmental Chemistry and Ecotoxicology of Hazardous Heavy Metals: Environmental Persistence, Toxicity, and Bioaccumulation. Journal of Chemistry, 2019, 2019, 1-14.	0.9	1,250
3	Trophic transfer, bioaccumulation, and biomagnification of non-essential hazardous heavy metals and metalloids in food chains/websâ€"Concepts and implications for wildlife and human health. Human and Ecological Risk Assessment (HERA), 2019, 25, 1353-1376.	1.7	345
4	What are heavy metals? Long-standing controversy over the scientific use of the term â€˜heavy metalsâ€™Ââ€“Âproposal of a comprehensive definition. Toxicological and Environmental Chemistry, 2018, 100, 6-19.	0.6	232
5	Bioaccumulation of non-essential hazardous heavy metals and metalloids in freshwater fish. Risk to human health. Environmental Chemistry Letters, 2018, 16, 903-917.	8.3	226
6	Environmental chemistry in the twenty-first century. Environmental Chemistry Letters, 2017, 15, 329-346.	8.3	106
7	Assessment of potentially toxic heavy metals and health risk in water, sediments, and different fish species of River Kabul, Pakistan. Human and Ecological Risk Assessment (HERA), 2018, 24, 2101-2118.	1.7	61
8	Pyridine Derivatives as Biologically Active Precursors; Organics and Selected Coordination Complexes. ChemistrySelect, 2021, 6, 3041-3064.	0.7	54
9	Medicinal Importance, Coordination Chemistry with Selected Metals (Cu, Ag, Au) and Chemosensing of Thiourea Derivatives. A Review. Critical Reviews in Analytical Chemistry, 2021, 51, 1-23.	1.8	40
10	Estimation of COVID-19 generated medical waste in the Kingdom of Bahrain. Science of the Total Environment, 2021, 801, 149642.	3.9	34
11	Isolation, crystal structure determination and cholinesterase inhibitory potential of isotalatizidine hydrate from Delphinium denudatum. Pharmaceutical Biology, 2017, 55, 680-686.	1.3	33
12	Bioaccumulation of Cr, Ni, Cd and Pb in the Economically Important Freshwater Fish Schizothorax plagiostomus from Three Rivers of Malakand Division, Pakistan: Risk Assessment for Human Health. Bulletin of Environmental Contamination and Toxicology, 2019, 102, 77-83.	1.3	33
13	Synthesis, Crystal Structure, and DFT Calculations of 1,3-Diisobutyl Thiourea. Journal of Chemistry, 2015, 2015, 1-5.	0.9	31
14	Synthesis and structure of novel spirosilanes. Combination of 1,2â€hydroboration and 1,1â€•organoboration. Applied Organometallic Chemistry, 2008, 22, 383-388.	1.7	27
15	Triethylborane: An â€œOldâ€•Reagent with New Functions. 1,2-Hydroboration. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2007, 62, 1174-1182.	0.3	26
16	Supramolecular dithiocarbamatogold(III) complex a potential DNA binder and antioxidant agent. Journal of Molecular Structure, 2014, 1060, 150-155.	1.8	26
17	Molecular structure of 1,4-bis(substituted-carbonyl)benzene: A combined experimental and theoretical approach. Journal of Molecular Structure, 2020, 1205, 127633.	1.8	26
18	Molecular salts of terephthalic acids with 2-aminopyridine and 2-aminothiazole derivatives as potential antioxidant agents; Base-Acid-Base type architectures. Journal of Molecular Structure, 2020, 1200, 127126.	1.8	25

#	Article	IF	Citations
19	Synthesis, molecular structure, anti-microbial, anti-oxidant and enzyme inhibition activities of 2-amino-6-methylbenzothiazole and its Cu(II) and Ag(I) complexes. Journal of Molecular Structure, 2020, 1199, 126956.	1.8	25
20	1,1â€Carboboration through Activation of Siliconâ€“Carbon and Tinâ€“Carbon Bonds. European Journal of Inorganic Chemistry, 2016, 2016, 300-312.	1.0	23
21	Gold(I), silver(I) and copper(I) complexes of 2,4,6-trimethylphenyl-3-benzoylthiourea; synthesis and biological applications. Polyhedron, 2020, 181, 114485.	1.0	22
22	Boryl-substituted 1-silacyclobutenes. Formation and molecular structure. Applied Organometallic Chemistry, 2007, 21, 39-45.	1.7	20
23	Coordination compounds of 4,5,6,7-tetrahydro-1H-indazole with Cu(II), Co(II) and Ag(I): structural, antimicrobial, antioxidant and enzyme inhibition studies. Journal of Coordination Chemistry, 2017, 70, 4054-4069.	0.8	20
24	Thiourea Derivatives, Simple in Structure but Efficient Enzyme Inhibitors and Mercury Sensors. Molecules, 2021, 26, 4506.	1.7	20
25	Synthesis and molecular structures of 1â€chloroâ€1â€silacyclopentâ€2â€enes. Combination of 1,2â€hydroboration, 1,1â€organoboration and protodeborylation. Applied Organometallic Chemistry, 2009, 23, 124-131.	1.7	18
26	Methyl-substituted 2-aminothiazoleâ€“based cobalt(II) and silver(I) complexes:synthesis, X-ray structures, and biological activities. Turkish Journal of Chemistry, 2019, 43, 857-868.	0.5	17
27	Zn, Cd and Hg complexes with unsymmetric thiourea derivatives; syntheses, free radical scavenging and enzyme inhibition essay. Journal of Molecular Structure, 2020, 1211, 128096.	1.8	17
28	Alkynylsilanes and Alkynyl(vinyl)silanes. Synthesis,Molecular Structures and Multinuclear Magnetic Resonance Study. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2010, 65, 725-744.	0.3	16
29	Reactivity of Triethylborane towards Di(alkyn-1-yl)(chloro)silanes. Competition between 1,1-Organoboration and 1,2-Hydroboration. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2009, 64, 47-57.	0.3	15
30	Synthesis and Molecular Structure of Silole Derivatives Bearing Functional Groups on Silicon: 1,1-Organoboration of Dialkynylsilanes. European Journal of Inorganic Chemistry, 2009, 2009, 4416-4424.	1.0	15
31	Syntheses, molecular structure, and electrochemical investigations of cobalt(II), copper(II), palladium(II), and zinc(II) complexes with 3-methylpyrazole. Journal of Coordination Chemistry, 2014, 67, 2425-2434.	0.8	14
32	Crystal structure, phytochemical study and enzyme inhibition activity of Ajaconine and Delectinine. Journal of Molecular Structure, 2016, 1123, 441-448.	1.8	14
33	Protodeborylation of Triorganoboranes. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2008, 63, 275-279.	0.3	13
34	Syntheses of 1,1-Organo-substituted Silole Derivatives. 1,1-Ethylboration, 1,1-Vinylboration and Protodeborylation. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2009, 64, 995-1002.	0.3	13
35	2-Amino-3-methylpyridinium, 2-amino-4-methylbenzothiazolium and 2-amino-5-chloropyridinium salts. Experimental and theoretical findings. Journal of Molecular Structure, 2020, 1222, 128914.	1.8	13
36	Levofloxacin Cocrystal/Salt with Phthalimide and Caffeic Acid as Promising Solid-State Approach to Improve Antimicrobial Efficiency. Antibiotics, 2022, 11, 797.	1.5	13

#	Article	IF	Citations
37	Siloles Bearing Si-Vinyl and Si-Allyl Functions. 1,1-Organoboration and Protodeborylation. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2009, 64, 1098-1106.	0.3	12
38	Nano-conjugates of Cefadroxil as Efficient Antibacterial Agent Against Staphylococcus aureus ATCC 11632. Journal of Cluster Science, 2020, 31, 811-821.	1.7	12
39	A scaffolded approach to unearth potential antibacterial components from epicarp of Malaysian Nephelium lappaceum L.. Scientific Reports, 2021, 11, 13859.	1.6	12
40	Combination of 1,2-Hydroboration and 1,1-Organoboration: A Convenient Route to 5-Silaspiro[4,4]nona-1,6-diene Derivatives. European Journal of Inorganic Chemistry, 2008, 2008, 5367-5372.	1.0	11
41	Cu(II) coordination polymers stabilized by pyridine-2,6-dicarboxylate anion and pyrazole derivatives through ligand hydrolysis. Journal of Coordination Chemistry, 2018, 71, 2658-2673.	0.8	11
42	Enhancing Dissolution Rate and Antibacterial Efficiency of Azithromycin through Drug-Drug Cocrystals with Paracetamol. Antibiotics, 2021, 10, 939.	1.5	11
43	1,2-Hydroboration of Alkyn-1-yl(chloro)silanes: Alkenes Bearing Chlorosilyl and Dialkylboryl Groups in Geminal Positions. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2007, 62, 75-81.	0.3	10
44	Synthesis and molecular structures of 1â€boracyclopentâ€2â€enes. Applied Organometallic Chemistry, 2009, 23, 204-211.	1.7	10
45	Tetra(alkynyl)silanes, a 3,6-Disila-triyne, a 3,6,9-Trisila-tetrayne, a 1,3,4,6-Tetrasiladiyne, and Bis(trimethylstannyl)ethyne. Molecular Structures and Solid-state NMR Studies. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2010, 65, 119-127.	0.3	10
46	1,2-Hydroboration of Alkyn-1-yldichlorosilanes using Triethylborane. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2008, 63, 1267-1275.	0.3	8
47	Synthesis of 1â€silacyclopentâ€2â€ene derivatives using 1,2â€hydroboration, 1,1â€organoboration and protodeborylation. Applied Organometallic Chemistry, 2014, 28, 280-285.	1.7	8
48	Synthesis of 4â€silaspiro[3.4]octaâ€1,5â€diene derivatives: hybrid spiro compounds. Applied Organometallic Chemistry, 2015, 29, 384-391.	1.7	8
49	Synthesis Characterization and DFT Calculations of 2,5-Substituted Thiophene Derivatives. Journal of Chemical Crystallography, 2015, 45, 238-243.	0.5	8
50	Antioxidant potential and secondary reactivity of bis f diphenyl(2-pyridyl)phosphino g copper(II) complex. Turkish Journal of Chemistry, 2018, 42, 1299-1309.	0.5	8
51	Phytoremediation of indoor formaldehyde by plants and plant material. International Journal of Phytoremediation, 2023, 25, 493-504.	1.7	8
52	New Supramolecular Triorganotin(IV) Dithiocarboxylates as Potential Antibacterial Agents. Heteroatom Chemistry, 2012, 23, 560-567.	0.4	7
53	Complexes of 1,3-Diisobutyl Thiourea with Copper(I), Zinc(II) and Mercury(II): Their Antioxidant and Antibacterial Evaluation. Crystals, 2021, 11, 989.	1.0	7
54	Schiff bases and their metal complexes with biologically compatible metal ions; biological importance, recent trends and future hopes. Reviews in Inorganic Chemistry, 2022, 42, 307-325.	1.8	7

#	Article	IF	Citations
55	Detecting inorganic arsenic below WHO threshold limit; A comparative study of various sensors. International Journal of Environmental Analytical Chemistry, 2023, 103, 8890-8913.	1.8	7
56	Synthesis and Characterization of Spirosilanes â€“ 1,2â€Hydroboration and 1,1â€Carboboration. European Journal of Inorganic Chemistry, 2014, 2014, 3411-3419.	1.0	6
57	Schiff-Based Fluorescent-ON Sensor L Synthesis and Its Application for Selective Determination of Cerium in Aqueous Media. Journal of Sensors, 2020, 2020, 1-10.	0.6	6
58	Bioaccumulation of Some Potentially Toxic Heavy Metals in Freshwater Fish of River Shah Alam, Khyber Pakhtunkhwa, Pakistan. Pakistan Journal of Zoology, 2020, 52, .	0.1	6
59	Chemical and biological evaluation of Ranunculus muricatus. Pakistan Journal of Pharmaceutical Sciences, 2016, 29, 503-10.	0.2	6
60	Hydrolysis and Oxidation of a 1-Boryl-1-silyl-alkene. Molecular Structures of 9-Hydroxy-9-borabicyclo[3.3.1]nonane and a Bicyclic Oxasilabora-heptadecane B2(OSiPh2OSiPh2O)3. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2007, 633, 453-457.	0.6	5
61	Synthesis, NMR characterization and reactivity of 1-silacyclohex-2-ene derivatives. Open Chemistry, 2012, 10, 1633-1639.	1.0	5
62	Palladium(II) Complexes Based on N,S-Donor Ligands: Synthesis and Molecular Structures. Journal of Structural Chemistry, 2019, 60, 159-167.	0.3	5
63	Synthesis and NMR spectroscopic characterization of Si-substituted 1-silacyclobutene derivatives. Open Chemistry, 2011, 9, 126-132.	1.0	4
64	Facile synthesis, characterization and DFT calculations of 2-acetyl pyridine derivatives. Quimica Nova, 0, , .	0.3	2
65	Effective removal of Cd(II) Pb(II) and Cr(VI) from aqueous solution using Bauhinia variegata leaves after chemical modifications. , 0, 220, 182-191.		1
66	Bioaccumulation of Selected Toxic Heavy Metals in Mastacembelus armatus from Three Rivers of Malakand Division, Pakistan. Pakistan Journal of Zoology, 2021, 53, .	0.1	1
67	Sol-gel silica doped with 3-(2-naphthoyl)-1,1-dibutylselenourea, an efficient precursor for removal of Pb(II) and Zn(II) from water samples. International Journal of Environmental Analytical Chemistry, 2024, 104, 475-488.	1.8	1
68	Hydroboration of alkynylchlorosilanes as an efficient route for the synthesis of SiNNB heterocycles. Applied Organometallic Chemistry, 0, , e6447.	1.7	0
69	(2E)-3-Phenylprop-2-en-1-yl thiocyanate. IUCrData, 2017, 2, .	0.1	0