

# Muhammad Hanif

## List of Publications by Year in descending order

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Version: 2024-02-01

103  
papers

3,555  
citations

147726

31  
h-index

149623

56  
g-index

108  
all docs

108  
docs citations

108  
times ranked

4315  
citing authors

#	ARTICLE	IF	CITATIONS
1	Antibacterial metal complexes of <i>o</i> -sulfamoylbenzoic acid: Synthesis, characterization, and DFT study. <i>Applied Organometallic Chemistry</i> , 2022, 36, .	1.7	32
2	Role of crosslinkers for synthesizing biocompatible, biodegradable and mechanically strong hydrogels with desired release profile. <i>Polymer Bulletin</i> , 2022, 79, 9199-9219.	1.7	8
3	Substitution of the chlorido ligand for PPh <sub>3</sub> in anticancer organoruthenium complexes of sulfonamide-functionalized pyridine-2-carbothioamides leads to high cytotoxic activity. <i>Inorganica Chimica Acta</i> , 2022, 536, 120889.	1.2	7
4	Nanotechnology for cancer drug design, delivery, and theranostics applications. , 2021, , 1-26.		2
5	Organometallic Chemistry of Anticancer Ruthenium and Osmium Complexes. , 2021, , .		1
6	Tracing the anticancer compound [Ru <sup>II</sup> ( <sup>6</sup> - <i>p</i> -cymene)(8-oxyquinolato)Cl] in a biological environment by mass spectrometric methods. <i>Analytical Methods</i> , 2021, 13, 1463-1469.	1.3	6
7	High Antiproliferative Activity of Hydroxythiopyridones over Hydroxypyridones and Their Organoruthenium Complexes. <i>Biomedicines</i> , 2021, 9, 123.	1.4	8
8	The Effect of Berberine, a Drug From Chinese Folk Medicine, on Serum and Urinary Uric Acid Levels in Rats With Hyperuricemia. <i>Cureus</i> , 2021, 13, e13186.	0.2	5
9	Impact of the Metal Center and Leaving Group on the Anticancer Activity of Organometallic Complexes of Pyridine-2-carbothioamide. <i>Molecules</i> , 2021, 26, 833.	1.7	11
10	Homodinuclear organometallics of ditopic N,N-chelates: Synthesis, reactivity and in vitro anticancer activity. <i>Inorganica Chimica Acta</i> , 2021, 518, 120220.	1.2	4
11	An account of strategies and innovations for teaching chemistry during the COVID-19 pandemic. <i>Biochemistry and Molecular Biology Education</i> , 2021, 49, 320-322.	0.5	19
12	Carbon monoxide is an inhibitor of HIF prolyl hydroxylase domain 2. <i>ChemBioChem</i> , 2021, 22, 2521-2525.	1.3	3
13	Heptadentate, Octadentate, Or Even Nonadentate? Denticity in the Unexpected Formation of an All-Carbon Donor-Atom Ligand in Rh <sup>III</sup> (Cp*)(Anthracenyl-NHC) Complexes. <i>Inorganic Chemistry</i> , 2021, 60, 8734-8741.	1.9	7
14	Triazolyl-Functionalized N-Heterocyclic Carbene Half-Sandwich Compounds: Coordination Mode, Reactivity and in vitro Anticancer Activity. <i>ChemMedChem</i> , 2021, 16, 3017-3026.	1.6	7
15	Monodentately-coordinated bioactive moieties in multimodal half-sandwich organoruthenium anticancer agents. <i>Coordination Chemistry Reviews</i> , 2021, 439, 213890.	9.5	44
16	Key considerations when using the sulforhodamine B assay for screening novel anticancer agents. <i>Anti-Cancer Drugs</i> , 2021, Publish Ahead of Print, .	0.7	6
17	Anthracenyl Functionalization of Half-Sandwich Carbene Complexes: In Vitro Anticancer Activity and Reactions with Biomolecules. <i>Inorganic Chemistry</i> , 2021, 60, 14636-14644.	1.9	12
18	Design concepts of half-sandwich organoruthenium anticancer agents based on bidentate bioactive ligands. <i>Coordination Chemistry Reviews</i> , 2021, 445, 213950.	9.5	45

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19	Cytostatic Action of Novel Histone Deacetylase Inhibitors in Androgen Receptor-Null Prostate Cancer Cells. <i>Pharmaceuticals</i> , 2021, 14, 103.	1.7	10
20	Mustards-Derived Terpyridine-Platinum Complexes as Anticancer Agents: DNA Alkylation vs Coordination. <i>Inorganic Chemistry</i> , 2021, 60, 2414-2424.	1.9	26
21	Anti-Proliferative, Anti-Angiogenic and Safety Profiles of Novel HDAC Inhibitors for the Treatment of Metastatic Castration-Resistant Prostate Cancer. <i>Pharmaceuticals</i> , 2021, 14, 1020.	1.7	6
22	Synthetic Strategy Towards Heterodimetallic Half-Sandwich Complexes Based on a Symmetric Ditopic Ligand. <i>Frontiers in Chemistry</i> , 2021, 9, 786367.	1.8	3
23	From the hypothesis-driven development of organometallic anticancer drugs to new methods in mode of action studies. <i>Advances in Inorganic Chemistry</i> , 2020, 75, 339-359.	0.4	4
24	Synthesis, structure and fluxionality of Co(III) complexes containing chelated sulfate. <i>Polyhedron</i> , 2020, 176, 114303.	1.0	0
25	Meningitis as an Initial Presentation of COVID-19: A Case Report. <i>Frontiers in Public Health</i> , 2020, 8, 474.	1.3	25
26	Metal-Dependent Cytotoxic and Kinesin Spindle Protein Inhibitory Activity of Ru, Os, Rh, and Ir Half-Sandwich Complexes of Ispinesib-Derived Ligands. <i>Inorganic Chemistry</i> , 2020, 59, 14879-14890.	1.9	11
27	Locked-in Syndrome in a Young Patient Due to SARS-CoV-2: A Case Report. <i>Frontiers in Medicine</i> , 2020, 7, 574690.	1.2	3
28	Thiourea-Derived Chelating Ligands and Their Organometallic Compounds: Investigations into Their Anticancer Activity. <i>Molecules</i> , 2020, 25, 3661.	1.7	9
29	Treatment Options for COVID-19: A Review. <i>Frontiers in Medicine</i> , 2020, 7, 480.	1.2	75
30	Breaking the Intracellular Redox Balance with Diselenium Nanoparticles for Maximizing Chemotherapy Efficacy on Patient-Derived Xenograft Models. <i>ACS Nano</i> , 2020, 14, 16984-16996.	7.3	105
31	A Multitargeted Approach: Organorhodium Anticancer Agent Based on Vorinostat as a Potent Histone Deacetylase Inhibitor. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14609-14614.	7.2	22
32	Editorial: New Strategies in Design and Synthesis of Inorganic Pharmaceuticals. <i>Frontiers in Chemistry</i> , 2020, 8, 453.	1.8	1
33	Heteroleptic Ruthenium(II) Complexes with Bathophenanthroline and Bathophenanthroline Disulfonate Disodium Salt as Fluorescent Dyes for In-Gel Protein Staining. <i>Inorganic Chemistry</i> , 2020, 59, 4527-4535.	1.9	10
34	Understanding Failure and Improving Treatment Using HDAC Inhibitors for Prostate Cancer. <i>Biomedicines</i> , 2020, 8, 22.	1.4	50
35	Potent Inhibition of Thioredoxin Reductase by the Rh Derivatives of Anticancer M(arene/Cp*)(NHC)Cl <sub>2</sub> Complexes. <i>Inorganic Chemistry</i> , 2020, 59, 3281-3289.	1.9	53
36	A Multitargeted Approach: Organorhodium Anticancer Agent Based on Vorinostat as a Potent Histone Deacetylase Inhibitor. <i>Angewandte Chemie</i> , 2020, 132, 14717-14722.	1.6	4

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37	Neurological Manifestations of COVID-19 (SARS-CoV-2): A Review. <i>Frontiers in Neurology</i> , 2020, 11, 518.	1.1	158
38	Acute Upper Limb Ischemia Due To Arterial Thrombosis in a Mild COVID-19 Patient: A Case Report. <i>Cureus</i> , 2020, 12, e10349.	0.2	10
39	Reinfection of COVID-19 in Pakistan: A First Case Report. <i>Cureus</i> , 2020, 12, e11176.	0.2	21
40	Energy Drinks and Atrial Fibrillation: An Unusual Case of Caution. <i>Cureus</i> , 2020, 12, e10807.	0.2	3
41	Hydroxyquinoline-derived anticancer organometallics: Introduction of amphiphilic PTA as an ancillary ligand increases their aqueous solubility. <i>Journal of Inorganic Biochemistry</i> , 2019, 199, 110768.	1.5	33
42	Synthesis, characterisation and electronic properties of naphthalene bridged disilanes. <i>Dalton Transactions</i> , 2019, 48, 13971-13980.	1.6	6
43	Anticancer organorhodium and -iridium complexes with low toxicity <i>in vivo</i> but high potency <i>in vitro</i> : DNA damage, reactive oxygen species formation, and haemolytic activity. <i>Chemical Communications</i> , 2019, 55, 12016-12019.	2.2	40
44	Coordination Chemistry of Organoruthenium Compounds with Benzoylthiourea Ligands and their Biological Properties. <i>Chemistry - an Asian Journal</i> , 2019, 14, 1262-1270.	1.7	25
45	Optimization of process parameters using graphene-based dielectric in electric discharge machining of AISI D2 steel. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 103, 3735-3749.	1.5	23
46	Comparative solution studies and cytotoxicity of gallium(III) and iron(III) complexes of 3-hydroxy-2(1H)-pyridinones. <i>Polyhedron</i> , 2019, 172, 141-147.	1.0	3
47	Periodic DFT modeling and vibrational analysis of silver(I) cyanide complexes of thioureas. <i>Journal of Molecular Modeling</i> , 2019, 25, 90.	0.8	8
48	Design of organoruthenium complexes for nanoparticle functionalization. <i>Journal of Organometallic Chemistry</i> , 2019, 891, 64-71.	0.8	0
49	Structural Modifications of the Antiinflammatory Oxicam Scaffold and Preparation of Anticancer Organometallic Compounds. <i>Organometallics</i> , 2019, 38, 361-374.	1.1	27
50	INVESTIGATION OF EFFECTS OF DIELECTRIC TYPE AND POLARITY ON ELECTRIC DISCHARGE MACHINING OF AISI D2 STEEL USING RESPONSE SURFACE METHODOLOGY. <i>NED University Journal of Research</i> , 2019, XVI, 81-93.	0.4	1
51	Rollover Cyclometalated Bipyridine Platinum Complexes as Potent Anticancer Agents: Impact of the Ancillary Ligands on the Mode of Action. <i>Inorganic Chemistry</i> , 2018, 57, 2851-2864.	1.9	45
52	Anticancer metallodrugs: where is the next cisplatin?. <i>Future Medicinal Chemistry</i> , 2018, 10, 615-617.	1.1	128
53	Making organoruthenium complexes of 8-hydroxyquinolines more hydrophilic: impact of a novel <i>l</i> -phenylalanine-derived arene ligand on the biological activity. <i>Dalton Transactions</i> , 2018, 47, 2192-2201.	1.6	31
54	Organometallics in Cancer Treatment—Non-conventional Structures and Modes of Action. , 2018, , .		0

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55	Hybrid compounds from chalcone and 1,2-benzothiazine pharmacophores as selective inhibitors of alkaline phosphatase isozymes. <i>European Journal of Medicinal Chemistry</i> , 2018, 159, 282-291.	2.6	16
56	Organoruthenium and Organoosmium Complexes of 2-Pyridinecarbothioamides Functionalized with a Sulfonamide Motif: Synthesis, Cytotoxicity and Biomolecule Interactions. <i>ChemPlusChem</i> , 2018, 83, 612-619.	1.3	12
57	A Bioactive <i>l</i> -Phenylalanine-Derived Arene in Multitargeted Organoruthenium Compounds: Impact on the Antiproliferative Activity and Mode of Action. <i>Inorganic Chemistry</i> , 2018, 57, 8521-8529.	1.9	26
58	Understanding the interactions of diruthenium anticancer agents with amino acids. <i>Journal of Biological Inorganic Chemistry</i> , 2018, 23, 1159-1164.	1.1	13
59	(Pyridin-2-yl)-NHC Organoruthenium Complexes: Antiproliferative Properties and Reactivity toward Biomolecules. <i>Organometallics</i> , 2018, 37, 1575-1584.	1.1	35
60	Aspirin-inspired organometallic compounds: Structural characterization and cytotoxicity. <i>Journal of Organometallic Chemistry</i> , 2017, 839, 31-37.	0.8	23
61	Anti-inflammatory Oxicams as Multi-donor Ligand Systems: pH- and Solvent-Dependent Coordination Modes of Meloxicam and Piroxicam to Ru and Os. <i>Chemistry - A European Journal</i> , 2017, 23, 4893-4902.	1.7	33
62	Functionalization of Ruthenium(II)( <i>p</i> -cymene)(3-Hydroxy-2-pyridone) Complexes with (Thio)Morpholine: Synthesis and Bioanalytical Studies. <i>ChemPlusChem</i> , 2017, 82, 841-847.	1.3	13
63	Anticancer Ru( <i>p</i> -cymene) complexes of 2-pyridinecarbothioamides: A structure-activity relationship study. <i>Journal of Inorganic Biochemistry</i> , 2017, 177, 395-401.	1.5	28
64	Cationic Ru( <i>p</i> -cymene) Complexes of 3-Hydroxy-4-pyridones as Lipophilic Triphenylphosphine as Co-ligand Is Key to Highly Stable and Cytotoxic Anticancer Agents. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 1721-1727.	1.0	27
65	Reprint of: Pt(II) pyridinium amidate (PYA) complexes: Preparation and in vitro anticancer activity studies. <i>Inorganica Chimica Acta</i> , 2017, 454, 247-253.	1.2	2
66	Synthesis, X-ray structure, spectroscopic (IR, NMR) analysis and DFT modeling of a new polymeric Zinc(II) complex of cystamine, [Zn(Cym-Cym)Cl <sub>2</sub> ]. <i>Polyhedron</i> , 2017, 122, 105-115.	1.0	5
67	Ru(II)( <i>p</i> -cymene) Complexes of Bioactive 1,2-Benzothiazines: Protein Binding vs. Antitumor Activity. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 1376-1382.	1.0	26
68	Pt(II) pyridinium amidate (PYA) complexes: Preparation and in vitro anticancer activity studies. <i>Inorganica Chimica Acta</i> , 2016, 450, 124-130.	1.2	14
69	Anticancer activity of Ru- and Os(arene) compounds of a maleimide-functionalized bioactive pyridinecarbothioamide ligand. <i>Journal of Inorganic Biochemistry</i> , 2016, 165, 100-107.	1.5	38
70	Metal based drugs: design, synthesis and in-vitro antimicrobial screening of Co(II), Ni(II), Cu(II) and Zn(II) complexes with some new carboxamide derived compounds: crystal structures of N-[ethyl(propan-2-yl)carbamothioyl]thiophene-2-carboxamide and its copper(II) complex. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 590-598.	2.5	32
71	Metal complexes of benzimidazole derived sulfonamide: Synthesis, molecular structures and antimicrobial activity. <i>Inorganica Chimica Acta</i> , 2016, 443, 179-185.	1.2	49
72	Methods of synthesis of hydrogels   A review. <i>Saudi Pharmaceutical Journal</i> , 2016, 24, 554-559.	1.2	393

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73	N-(4-Benzoylphenyl)pyridine-2-carbothioamide. IUCrData, 2016, 1, .	0.1	0
74	Traditional Uses, Phytochemistry, and Pharmacology of <i>Olea europaea</i> (Olive). Evidence-based Complementary and Alternative Medicine, 2015, 2015, 1-29.	0.5	190
75	Organoruthenium and Osmium Anticancer Complexes Bearing a Maleimide Functional Group: Reactivity to Cysteine, Stability, and Cytotoxicity. ChemPlusChem, 2015, 80, 231-236.	1.3	31
76	Half-sandwich Ruthenium(II) Biotin Conjugates as Biological Vectors to Cancer Cells. Chemistry - A European Journal, 2015, 21, 5110-5117.	1.7	60
77	Synthesis and characterization of silver(I) complexes of thioureas and thiocyanate: crystal structure of polymeric (1,3-diazinane-2-thione)thiocyanato silver(I). Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2015, 70, 541-546.	0.3	8
78	Extraction of Pb(II) from water samples by ionic liquid-modified silica sorbents. Desalination and Water Treatment, 2014, 52, 7915-7924.	1.0	11
79	Aromaticities of azines relative to benzene; a theoretical approach through the dimethyldihydropyrene probe. Journal of Physical Organic Chemistry, 2014, 27, 860-866.	0.9	6
80	Anticancer Ruthenium( $\eta^6$ -p-cymene) Complexes of Nonsteroidal Anti-inflammatory Drug Derivatives. Organometallics, 2014, 33, 5546-5553.	1.1	82
81	Development of anticancer agents: wizardry with osmium. Drug Discovery Today, 2014, 19, 1640-1648.	3.2	139
82	Aromaticity of azines through dyotropic double hydrogen transfer reaction. Journal of Molecular Modeling, 2014, 20, 2304.	0.8	4
83	Ruthenium(II)( $\eta^6$ -arene) Complexes of Thiourea Derivatives: Synthesis, Characterization and Urease Inhibition. Molecules, 2014, 19, 8080-8092.	1.7	27
84	Theoretical insight of polypyrrole ammonia gas sensor. Synthetic Metals, 2013, 172, 14-20.	2.1	105
85	Novel metal(II) arene 2-pyridinecarbothioamides: a rationale to orally active organometallic anticancer agents. Chemical Science, 2013, 4, 1837.	3.7	111
86	Solution equilibrium studies on anticancer ruthenium(II)- $\eta^6$ -p-cymene complexes of 3-hydroxy-2(1H)-pyridones. Journal of Organometallic Chemistry, 2013, 734, 38-44.	0.8	20
87	Influence of the $\eta^6$ -coordinated arene on the anticancer activity of ruthenium(II) carbohydrate organometallic complexes. Frontiers in Chemistry, 2013, 1, 27.	1.8	23
88	Copper Complexes of Bioactive Ligands with Superoxide Dismutase Activity. Mini-Reviews in Medicinal Chemistry, 2013, 13, 1944-1956.	1.1	27
89	Organometallic Ruthenium and Osmium Compounds of Pyridine-2-thione and Pyridine-4-thione as Potential Anticancer Agents. Chemistry and Biodiversity, 2012, 9, 1718-1727.	1.0	17
90	Maleimide-functionalised organoruthenium anticancer agents and their binding to thiol-containing biomolecules. Chemical Communications, 2012, 48, 1475-1477.	2.2	91

