

Muhammad Sirajuddin

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.

73 papers	1,913 citations	21 h-index	42 g-index
74 ext. papers	2,232 ext. citations	2.8 avg, IF	5.26 L-index

#	Paper	IF	Citations
73	Synthesis, physicochemical characterization, DNA binding and in silico studies of (E)-4-((2-methoxyphenyl)amino)-4-oxobut-2-enoic acid and its triorganotin complexes. <i>Journal of Chemical Sciences</i> , 2022 , 134, 1	1.8	0
72	Designing, physicochemical confirmation, evaluation of biological and in-silico potential of Triorganotin(IV) complexes. <i>Journal of Molecular Structure</i> , 2022 , 1260, 132814	3.4	0
71	Three isomeric 4-[(n-bromophenyl)carbamoyl]butanoic acids (n=2, 3 and 4) as DNA intercalator: Synthesis, physicochemical characterization, antimicrobial activity, antioxidant potential and in silico study. <i>Journal of Molecular Structure</i> , 2022 , 1262, 133033	3.4	0
70	4-[(4-Chlorophenyl)carbamoyl]butanoic Acid. <i>MolBank</i> , 2021 , 2021, M1209	0.5	3
69	Synthesis, characterization and fuel parameters analysis of linseed oil biodiesel using cadmium oxide nanoparticles. <i>Energy</i> , 2021 , 222, 120014	7.9	4
68	4-[(2,4-Dichlorophenyl)carbamoyl]butanoic Acid. <i>MolBank</i> , 2021 , 2021, M1227	0.5	2
67	Zinc metal carboxylates as potential anti-Alzheimer's candidate: anticholinesterase, antioxidant and molecular docking studies. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021 , 39, 1044-1054	3.6	23
66	Preparation of silica nanoparticles facilitated by Saccharum munja plant. <i>Inorganic and Nano-Metal Chemistry</i> , 2021 , 51, 508-513	1.2	1
65	Organotin(IV) derivatives based on 2-((2-methoxyphenyl)carbamoyl)benzoic acid: Synthesis, spectroscopic characterization, assessment of antibacterial, DNA interaction, anticancer and antileishmanial potentials. <i>Journal of Molecular Structure</i> , 2021 , 1229, 129600	3.4	12
64	Designing, spectroscopic and structural characterization and evaluation of biological potential as well as molecular docking studies of Zn(II)-based metallo-pharmaceuticals. <i>Journal of the Iranian Chemical Society</i> , 2021 , 18, 1689-1702	2	2
63	Influence of W-doping on the optical and electrical properties of SnO ₂ towards photocatalytic detoxification and electrocatalytic water splitting. <i>Journal of Alloys and Compounds</i> , 2020 , 827, 154247	5.7	8
62	Synthesis, characterization and biological screenings of 5-coordinated Organotin(IV) complexes based on carboxylate ligand. <i>Journal of Molecular Structure</i> , 2020 , 1206, 127683	3.4	14
61	New tri- and di-alkylstannyl 2-(1H-indol-3-yl)ethanoates: synthesis, characterization and biological screenings. <i>Journal of Coordination Chemistry</i> , 2020 , 73, 934-946	1.6	0
60	Crystal structure of 4-[(4-methoxy-2-nitrophenyl)carbamoyl]butanoic acid, C ₁₂ H ₁₄ N ₂ O ₆ . <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2020 , 235, 1435-1437	0.2	5
59	Crystal structure of 4-[(2-methoxyphenyl)carbamoyl]butanoic acid, C ₁₂ H ₁₅ NO ₄ . <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2020 , 235, 1481-1483	0.2	5
58	Crystal structure of 4-[(3,5-dichlorophenyl)carbamoyl]butanoic acid, C ₁₁ H ₁₁ Cl ₂ NO ₃ . <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2020 , 235, 1495-1497	0.2	5
57	Crystal structure of 4-[(3-methoxyphenyl)carbamoyl]butanoic acid, C ₁₂ H ₁₅ NO ₄ . <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2020 , 235, 1519-1521	0.2	4

56	Synthesis, characterization crystal structures and DNA binding studies of zinc complexes with oxygen and nitrogen donor ligands. <i>Polyhedron</i> , 2020 , 177, 114273	2.7	9
55	Synthesis, structural peculiarities, theoretical study and biological evaluation of newly designed O-Vanillin based azomethines. <i>Journal of Molecular Structure</i> , 2020 , 1205, 127574	3.4	5
54	Organotin (IV) Complexes as Catalyst for Biodiesel Formation: Synthesis, Structural Elucidation and Computational Studies. <i>Applied Organometallic Chemistry</i> , 2020 , 34, e5305	3.1	5
53	2-Phenylbutyric acid based organotin(IV) carboxylates; synthesis, spectroscopic characterization, antibacterial action against plant pathogens and in vitro hemolysis. <i>Journal of Molecular Structure</i> , 2020 , 1203, 127378	3.4	8
52	Exploration of biological potency of carboxylic acid derivatives: Designing, synthesis, characterizations and molecular docking study. <i>Journal of Molecular Structure</i> , 2020 , 1207, 127809	3.4	14
51	Exploration of Antioxidant Activities of Potentially Bioactive Compounds in <i>Trianthema portulacastrum</i> Herb: Chemical Identification and Quantification by GC-MS and HPLC. <i>ChemistrySelect</i> , 2019 , 4, 925-935	1.8	4
50	Spectroscopic characterizations, structural peculiarities, molecular docking study and evaluation of biological potential of newly designed organotin(IV) carboxylates. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019 , 197, 111516	6.7	12
49	Exploration of organotin(IV) derivatives for medicinal applications: Synthesis, spectroscopic characterization, structural elucidation and molecular docking study. <i>Journal of Molecular Structure</i> , 2019 , 1181, 93-108	3.4	24
48	Synthesis, characterization, biological screenings and molecular docking study of Organotin(IV) derivatives of 2,4-dichlorophenoxyacetic acid. <i>Journal of Molecular Structure</i> , 2019 , 1179, 662-671	3.4	14
47	Designing of homo and heteroleptic zinc(II) carboxylates: synthesis, spectroscopic characterizations, DNA binding study, CTAB interaction and in vitro antimicrobial evaluations. <i>Journal of the Iranian Chemical Society</i> , 2019 , 16, 1163-1177	2	11
46	Synthesis, spectroscopic characterization, crystal structure, interaction with DNA, CTAB as well as evaluation of biological potency, docking and Molecular Dynamics studies of N-(3,4,5-trimethoxybenzylidene)-2, 3-dimethylbenzenamine. <i>Journal of Molecular Structure</i> , 2019 , 1178, 29-38	3.4	15
45	Synthesis, Characterization, DNA Interaction Study, Antibacterial and Anticancer Activities of New Palladium(II) Phosphine Complexes. <i>Russian Journal of General Chemistry</i> , 2018 , 88, 551-559	0.7	5
44	Synthesis, physicochemical characterizations and in vitro biological evaluations of amide based Zn(II) carboxylates. <i>Inorganica Chimica Acta</i> , 2018 , 482, 567-578	2.7	15
43	Organotin(IV) 4-(benzo[d][1,3]dioxol-5-ylmethyl)piperazine-1-carbodithioates: Synthesis, characterization and biological activities. <i>Journal of Organometallic Chemistry</i> , 2018 , 856, 13-22	2.3	16
42	Newly designed organotin(IV) carboxylates with peptide linkage: Synthesis, structural elucidation, physicochemical characterizations and pharmacological investigations. <i>European Journal of Medicinal Chemistry</i> , 2018 , 143, 1903-1918	6.8	43
41	Synthesis, crystal structure, antibacterial, cytotoxic, and anticancer activities of new Pd(II) complexes of tri-p-tolyl phosphine with thiones. <i>Russian Journal of General Chemistry</i> , 2017 , 87, 2073-2082	0.7	5
40	Biological evaluations and spectroscopic characterizations of 3-(4-ethoxyphenyl)-2-methylacrylate based organotin(IV) carboxylates derivatives. <i>Russian Journal of General Chemistry</i> , 2017 , 87, 2690-2698	0.7	3
39	Synthesis, Spectral Characterization, In Vitro Antibacterial Evaluation and POM Analyses of Palladium(II) Thiocyanate Complexes of Thioamides. <i>Pharmaceutical Chemistry Journal</i> , 2017 , 51, 793-799	0.9	3

38	Synthesis, spectroscopic characterization, and biological screening of levofloxacin based organotin(IV) derivatives. <i>Russian Journal of General Chemistry</i> , 2017 , 87, 2380-2390	0.7	14
37	Synthesis, structural elucidation and biological activities of organotin(IV) derivatives of 4-(2-thienyl)butyric acid. <i>Journal of the Iranian Chemical Society</i> , 2017 , 14, 387-394	2	5
36	Organotin(IV) derivatives of o-isobutyl carbonodithioate: Synthesis, spectroscopic characterization, X-ray structure, HOMO/LUMO and in vitro biological activities. <i>Polyhedron</i> , 2016 , 104, 80-90	2.7	30
35	Synthesis, biological investigation, calf thymus DNA binding and docking studies of the sulfonyl hydrazides and their derivatives. <i>Journal of Molecular Structure</i> , 2016 , 1107, 99-108	3.4	35
34	Synthesis, structural characterization and biological screening of heteroleptic palladium(II) complexes. <i>Inorganica Chimica Acta</i> , 2016 , 447, 176-182	2.7	12
33	Crystal structure of (Z)-1-(1,5-dimethyl-1H-pyrazol-3-yl)-3-hydroxybut-2-en-1-one C ₉ H ₁₂ N ₂ O ₂ . <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2016 , 231, 617-618	0.2	5
32	Pharmacological investigations and Petra/Osiris/Molinspiration (POM) analyses of newly synthesized potentially bioactive organotin(IV) carboxylates. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016 , 158, 174-83	6.7	18
31	Photo-induced Leishmania DNA degradation by silver-doped zinc oxide nanoparticle: an in-vitro approach. <i>IET Nanobiotechnology</i> , 2016 , 10, 129-33	2	13
30	Synthesis, spectral characterization and in vitro antibacterial evaluation and Petra/Osiris/Molinspiration analyses of new Palladium(II) iodide complexes with thioamidesPeer review under responsibility of Alexandria University Faculty of Medicine.View all notes. <i>Alexandria Journal of Medicine</i> , 2016 , 52, 279-288	0.7	15
29	O-bridged and paddlewheel copper(II) carboxylates as potent DNA intercalator: Synthesis, physicochemical characterization, electrochemical and DNA binding studies as well as POM analyses. <i>Inorganica Chimica Acta</i> , 2016 , 440, 129-138	2.7	10
28	Pharmacological investigation of mono-, di- and tri-organotin(IV) derivatives of carbodithioates: Design, spectroscopic characterization, interaction with SS-DNA and POM analyses. <i>Inorganica Chimica Acta</i> , 2016 , 439, 145-158	2.7	26
27	Design, Synthesis, in vitro Antiproliferative Activity, Binding Modeling of 1,2,4-Triazoles as New Anti-Breast Cancer Agents. <i>Acta Chimica Slovenica</i> , 2016 , 63, 726-737	1.9	12
26	Organotin(IV) Carboxylates as Promising Potential Drug Candidates in the Field of Cancer Chemotherapy. <i>Current Pharmaceutical Design</i> , 2016 , 22, 6665-6681	3.3	16
25	Synthesis, antioxidant, enzyme inhibition and DNA binding studies of novel N-benzylated derivatives of sulfonamide. <i>Journal of Molecular Structure</i> , 2016 , 1117, 269-275	3.4	26
24	Synthesis, spectroscopic characterization, biological screenings, DNA binding study and POM analyses of transition metal carboxylates. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 140, 563-74	4.4	24
23	Stannic chloride-para toluene sulfonic acid as a novel catalyst-co-catalyst system for the designing of hydroxyl terminated polyepichlorohydrin polymer: Synthesis and characterization. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 151, 164-73	4.4	2
22	Synthesis, spectroscopic characterization and in vitro antimicrobial, anticancer and antileishmanial activities as well interaction with Salmon sperm DNA of newly synthesized carboxylic acid derivative, 4-(4-methoxy-2-nitrophenylamino)-4-oxobutanoic acid. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 138, 569-78	4.4	33
21	Synthesis, spectroscopic characterization, crystal structure, DNA interaction study and invitro biological screenings of 4-(5-chloro-2-hydroxyphenylamino)-4-oxobut-2-enoic acid. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 134, 244-50	4.4	21

20	Origin and switch of different colors: Thermo-isomerism and crystal structure of (1E,2E)-bis[1-(4-nitrophenyl)ethylidene] hydrazine. <i>Journal of Chemical Sciences</i> , 2015 , 127, 2211-2216	1.8	6
19	Synthesis, structural elucidation and DNA binding study of fluorine substituted organotin(IV) dithiocarbamates. <i>Polyhedron</i> , 2015 , 102, 750-758	2.7	6
18	Organotin(IV) carboxylates as an effective catalyst for the conversion of corn oil into biodiesel. <i>Journal of Organometallic Chemistry</i> , 2015 , 779, 30-38	2.3	29
17	Design, structural and spectroscopic elucidation and in vitro antimicrobial, anticancer, antileishmanial, urease inhibition activities and interaction with SS-DNA of newly synthesized amide based carboxylic acid. <i>Inorganica Chimica Acta</i> , 2015 , 427, 178-187	2.7	7
16	Organotin(IV) carboxylate derivatives as a new addition to anticancer and antileishmanial agents: design, physicochemical characterization and interaction with Salmon sperm DNA. <i>RSC Advances</i> , 2014 , 4, 57505-57521	3.7	74
15	Synthesis, spectroscopic characterization, pH dependent redox mechanism and DNA binding behavior of chlorohydroxyaniline derivatives. <i>RSC Advances</i> , 2014 , 4, 22299-22307	3.7	5
14	Potentially bioactive organotin(IV) compounds: synthesis, characterization, in vitro bioactivities and interaction with SS-DNA. <i>European Journal of Medicinal Chemistry</i> , 2014 , 84, 343-63	6.8	93
13	Organotin(IV) complexes of carboxylate derivative as potential chemotherapeutic agents against Leishmania. <i>Inorganica Chimica Acta</i> , 2014 , 423, 220-228	2.7	13
12	Biological screening, DNA interaction studies, and catalytic activity of organotin(IV) 2-(4-ethylbenzylidene) butanoic acid derivatives: synthesis, spectroscopic characterization, and X-ray structure. <i>Journal of Coordination Chemistry</i> , 2014 , 67, 323-340	1.6	37
11	Potential bioactive Vanillin Schiff base di- and tri-organotin(IV) complexes of 4-((3,5-dimethylphenylimino)methyl)-2-methoxyphenol: synthesis, characterization and biological screenings. <i>Journal of the Iranian Chemical Society</i> , 2014 , 11, 297-313	2	29
10	Synthesis, spectroscopic characterization, X-ray structure and biological screenings of organotin(IV) 3-[(3,5-dichlorophenylamido)]propanoates. <i>Inorganica Chimica Acta</i> , 2013 , 400, 159-168	2.7	22
9	Potential bioactive Schiff base compounds: synthesis, characterization, X-ray structures, biological screenings and interaction with Salmon sperm DNA. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 116, 111-21	4.4	41
8	Drug-DNA interactions and their study by UV-Visible, fluorescence spectroscopies and cyclic voltametry. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2013 , 124, 1-19	6.7	711
7	Synthesis, spectroscopic characterization, X-ray structures, biological screenings, DNA interaction study and catalytic activity of organotin(IV) 3-(4-fluorophenyl)-2-methylacrylic acid derivatives. <i>Journal of Organometallic Chemistry</i> , 2013 , 723, 79-89	2.3	55
6	Triphen-yl(pyrrolidine-1-carbodi-thio-ato- η)tin(IV). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013 , 69, m497		
5	1-(4-Meth-oxy-phen-yl)pyrrolidine-2,5-dione. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013 , 69, o1439		
4	Synthesis, characterization, biological screenings and interaction with calf thymus DNA of a novel azomethine 3-((3,5-dimethylphenylimino)methyl)benzene-1,2-diol. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 94, 134-42	4.4	83
3	Synthesis, characterization, biological screenings and interaction with calf thymus DNA as well as electrochemical studies of adducts formed by azomethine [2-((3,5-dimethylphenylimino)methyl)phenol] and organotin(IV) chlorides. <i>Polyhedron</i> , 2012 , 40, 19-31	2.7	82

2	1-(2-Meth-oxy-phen-yl)-1H-pyrrole-2,5-dione. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012 , 68, o2282	3
1	2-(2-Meth-oxy-phen-yl)-1H-isoindole-1,3(2H)-dione. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012 , 68, o2589	1