Mohamed R Shehata

List of Publications by Year
in descending order

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74 papers	1,612 citations	304368 22 h-index	329751 37 g-index
76 all docs	76 docs citations	76 times ranked	1145 citing authors

#	Article	IF	Citations
1	Synthesis and characterization of new Cr(III), Fe(III) and Cu(II) complexes incorporating multi-substituted aryl imidazole ligand: Structural, DFT, DNA binding, and biological implications. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 228, 117700.	2.0	107
2	Fabrication, spectroscopic characterization, calf thymus DNA binding investigation, antioxidant and anticancer activities of some antibiotic azomethine Cu(II), Pd(II), Zn(II) and Cr(III) complexes. Applied Organometallic Chemistry, 2019, 33, e4943.	1.7	102
3	Some new Ag(I), VO(II) and Pd(II) chelates incorporating tridentate imine ligand: Design, synthesis, structure elucidation, density functional theory calculations for DNA interaction, antimicrobial and anticancer activities and molecular docking studies. Applied Organometallic Chemistry, 2019, 33, e4699.	1.7	97
4	Development and structure elucidation of new VO²⁺, Mn²⁺, Zn²⁺, and Pd²⁺ complexes based on azomethine ferrocenyl ligand: DNA interaction, antimicrobial, antioxidant, anticancer activities, and molecular docking. Applied Organometallic Chemistry, 2021, 35, e6154.	1.7	75
5	Facile synthesis, X-Ray structure of new multi-substituted aryl imidazole ligand, biological screening and DNA binding of its Cr(III), Fe(III) and Cu(II) coordination compounds as potential antibiotic and anticancer drugs. Journal of Molecular Structure, 2020, 1200, 127034.	1.8	66
6	Nano-TiO2 modified carbon paste sensor for electrochemical nicotine detection using anionic surfactant. Biosensors and Bioelectronics, 2016, 79, 589-592.	5.3	63
7	Design, synthesis, structural inspection of Pd²⁺, VO²⁺, Mn²⁺, and Zn²⁺chelates incorporating ferrocenyl thiophenol ligand: DNA interaction and pharmaceutical studies. Applied Organometallic Chemistry, 2021, 35, e6169.	1.7	62
8	A novel electrochemical nicotine sensor based on cerium nanoparticles with anionic surfactant. RSC Advances, 2015, 5, 51662-51671.	1.7	60
9	Novel azomethine Pd (II)â€•and VO (II)â€based metalloâ€pharmaceuticals as anticancer, antimicrobial, and antioxidant agents: Design, structural inspection, DFT investigation, and DNA interaction. Journal of Physical Organic Chemistry, 2019, 32, e4009.	0.9	59
10	Ammonia dihydrate: Preparation, xâ€ray powder diffraction pattern and infrared spectrum of NH3â‹…2H2O at 100 K. Journal of Chemical Physics, 1984, 81, 27-30.	1.2	56
11	Synthesis, characterization, equilibrium study and biological activity of Cu(II), Ni(II) and Co(II) complexes of polydentate Schiff base ligand. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 96, 889-897.	2.0	50
12	Complex-formation reactions of dicholoro(S-methyl-l-cysteine)palladium(ii) with bio-relevant ligands. Labilization induced by S-donor chelates. Dalton Transactions, 2008, , 779-786.	1.6	46
13	Title is missing!. Transition Metal Chemistry, 2001, 26, 198-204.	0.7	39
14	Synthesis, Characterization, Theoretical Studies, and Antimicrobial/Antitumor Potencies of Salen and Salen/Imidazole Complexes of Co (II), Ni (II), Cu (II), Cd (II), Al (III) and La (III). Applied Organometallic Chemistry, 2020, 34, e5912.	1.7	39
15	Fabrication, DFT Calculation, and Molecular Docking of Two Fe(III) Imine Chelates as Anti-COVID-19 and Pharmaceutical Drug Candidate. International Journal of Molecular Sciences, 2022, 23, 3994.	1.8	34
16	Novel Fe2O3-doped glass /chitosan scaffolds for bone tissue replacement. Ceramics International, 2018, 44, 9140-9151.	2.3	30
17	Synthesis, structural characterization, DFT calculations, biological investigation, molecular docking and DNA binding of Co(II), Ni(II) and Cu(II) nanosized Schiff base complexes bearing pyrimidine moiety. Journal of Molecular Structure, 2019, 1183, 298-312.	1.8	29
18	Sustainable waste management and recycling of Znâ€“Al layered double hydroxide after adsorption of levofloxacin as a safe anti-inflammatory nanomaterial. RSC Advances, 2020, 10, 27633-27651.	1.7	29

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19	Synthesis, DFT Calculations, Antiproliferative, Bactericidal Activity and Molecular Docking of Novel Mixed-Ligand Salen/8-Hydroxyquinoline Metal Complexes. Molecules, 2021, 26, 4725.	1.7	29
20	The infrared spectra of NH3â‹…H2O and ND3â‹…D2O at 100 K. Journal of Chemical Physics, 1985, 83, 1449-1456.	1.2	26
21	Interaction of Dimethyltin(IV) with DNA Constituents. Monatshefte FÃ¼r Chemie, 2001, 132, 349-366.	0.9	26
22	Equilibrium Studies on Complexâ€Formation Reactions of Pd[(2â€(2â€aminoethyl)pyridine)(H₂O)₂]²⁺ with Ligands of Biological Significance and Displacement Reactions of DNA Constituents. European Journal of Inorganic Chemistry, 2009, 2009, 3912-3920.	1.0	26
23	TRIMETHYLTIN(IV) COMPLEXES WITH SOME SELECTED DNA CONSTITUENTS. Journal of Coordination Chemistry, 2001, 53, 125-142.	0.8	25
24	Equilibrium, kinetic and solvent effect studies on the reactions of [RuIII(Hedta)(H2O)] with thiols. Dalton Transactions, 2005, , 3921.	1.6	25
25	Synthesis, characterization, biological and docking studies of ZrO(II), VO(II) and Zn(II) complexes of a halogenated tetra-dentate Schiff base. Arabian Journal of Chemistry, 2022, 15, 103737.	2.3	23
26	Synthesis, characterization, potential antimicrobial, antioxidant, anticancer, DNA binding, and molecular docking activities and DFT on novel Co(II), Ni(II), VO(II), Cr(III), and La(III) Schiff base complexes. Applied Organometallic Chemistry, 2022, 36, e6484.	1.7	21
27	Synthesis, X-ray structure, DFT and thermodynamic studies of mono- and binuclear palladium(II) complexes involving 1,4-bis(2-hydroxyethyl)piperazine, bio-relevant ligands and 4,4â€²-bipiperidine. Journal of Coordination Chemistry, 2016, 69, 522-540.	0.8	17
28	Coordination properties of dehydroacetic acid â€“ binary and ternary complexes. Journal of Coordination Chemistry, 2008, 61, 1906-1916.	0.8	16
29	Synthesis, characterization, equilibria and biological activity of dimethyltin(IV) complex with 1,4-piperazine. Journal of Coordination Chemistry, 2015, 68, 1101-1114.	0.8	16
30	EQUILIBRIUM STUDIES OF ORGANOTIN(IV) COMPLEXES OF PEPTIDES. Main Group Metal Chemistry, 1999, 22, .	0.6	15
31	Coordination properties of 6-aminopenicillanic acid: binary and ternary complexes involving biorelevant ligands. Journal of Coordination Chemistry, 2004, 57, 1369-1386.	0.8	15
32	Antibacterial, drug delivery, and osteoinduction abilities of bioglass/chitosan scaffolds for dental applications. Journal of Drug Delivery Science and Technology, 2020, 57, 101757.	1.4	15
33	[Cu(dipicolinoylamide)(NO3)(H2O)] as anti-COVID-19 and antibacterial drug candidate: Design, synthesis, crystal structure, DFT and molecular docking. Journal of Molecular Structure, 2022, 1247, 131348.	1.8	15
34	A Study on the extraction of uranium(VI) from sulphate leach liquor using LIX63. Journal of Dispersion Science and Technology, 2017, 38, 866-875.	1.3	14
35	Gleichgewichtsstudien an Mixed-ligand-Komplexen aus (1,2-Diaminopropan)Palladium(II) und einigen Bioliganden. Monatshefte FÃ¼r Chemie, 1999, 130, 409.	0.9	14
36	Oxidative DNA cleavage mediated by a new unexpected [Pd(BAPP)][PdCl₄] complex (BAPP =) Tj ETQq0 0 0 rgBT /Overlock Advances, 2022, 12, 1871-1884.	1.7	14

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37	Targeted synthesis of two iron(III) tetradentate dibasic chelating Schiff base complexes toward inhibition of acidic induced steel corrosion: Empirical and DFT insights. Applied Organometallic Chemistry, 2022, 36, .	1.7	14
38	Synthesis of a simply modified electrochemical nicotine sensor based on silver nanoparticles. Canadian Journal of Chemistry, 2018, 96, 821-827.	0.6	13
39	Binary and ternary complexes of Cd(II) involving triethylenetetramine and selected amino acids and DNA units. Mikrochimica Acta, 1998, 129, 107-113.	2.5	10
40	Equilibrium Studies of Mixed Ligand Complexes Involving (1,2-Diaminopropane)-Palladium(II) and Some Bioligands. Monatshefte FÃ¼r Chemie, 1999, 130, 409-423.	0.9	10
41	Interaction of dimethyltin(IV) and trimethyltin(IV) with dehydroacetic acid. Chemical Speciation and Bioavailability, 2009, 21, 1-6.	2.0	10
42	Synthesis and Tautomeric Structure of the Azo-Coupling Products of 2-Methyl-7-Phenylpyrimido[1,2-b][1,2,4]triazepine-4,9(3H,5H)-dione. Journal of Chemical Research, 2007, 2007, 44-47.	0.6	9
43	Thermal stability of Pd(1,4-bis(2-hydroxyethyl)piperazine)Cl₂ and its role in the catalysis of base hydrolysis of Î±-amino acid esters. Journal of Coordination Chemistry, 2015, 68, 3272-3281.	0.8	9
44	Synthesis, Characterization, Speciation, DNA Cleavage, and Cytotoxic Studies of the Pd[2â€(2â€Aminoethyl)â€1â€methylpyrrolidine]Cl₂ Complex with Reference to Carboplatin. European Journal of Inorganic Chemistry, 2017, 2017, 1877-1887.	1.0	9
45	Thermodynamic Investigation and Mixed Ligand Complex Formation of 1,4-Bis-(3-aminopropyl)-piperazine and Biorelevant Ligands. Bioinorganic Chemistry and Applications, 2012, 2012, 1-10.	1.8	8
46	Synthesis and Tautomeric Structure of 3,6-bis(arylazo)pyrazolo [1,5-a]pyrimidine-5,7(4H,6H)-diones. Journal of Chemical Research, 2008, 2008, 452-456.	0.6	7
47	Structural investigation and applications of glassy sodium phosphate including the kinetics of dissolution rates and spectral analysis of the prepared samples with a focus on their effects on water treatment. Optical and Quantum Electronics, 2019, 51, 1.	1.5	7
48	Synthesis, spectroscopic, DFT calculations, antimicrobial, cytotoxicity, and DNA binding studies of novel Cu (II), Ni (II), Zn (II), and VO (II) Schiff base complexes based on ibuprofen. Applied Organometallic Chemistry, 2022, 36, .	1.7	7
49	Tripropyltin(IV) Complexes with some Selected Bioligands in 50 % V/V Dioxane/Water Mixture. Annali Di Chimica, 2006, 96, 97-107.	0.6	6
50	Speciation studies on the complex formation reactions of [Pd(N,N-diethyl-ethylendiamine)(H2O)2]2+ with some bio-relevant ligands and displacement reaction by mercaptoethylamine. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 79, 1226-1233.	2.0	6
51	Mono- and binuclear complexes involving [Pd(N,N-dimethylethylenediamine)(H₂O)₂]²⁺, 4,4â€²-bipiperidine and DNA constituents. Journal of Coordination Chemistry, 2012, 65, 1311-1323.	0.8	6
52	Thermodynamics of the interaction of Pd(dmen)(H2O)22+ with bio-relevant ligands with reference to the deactivation of metal-based drug by thiol ligands. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 91, 383-388.	2.0	6
53	Equilibrium studies of diethyltin(IV) dichloride and divinyltin(IV) dichloride with 1-(2-aminoethyl)-pyrrolidine. Journal of Molecular Liquids, 2018, 262, 422-434.	2.3	6
54	Equilibrium studies of binary and mixed-ligand dimethyltin(IV) complexes involving homopiperazine and DNA constituents with reference to the antitumor activity. Physics and Chemistry of Liquids, 2021, 59, 523-536.	0.4	6

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55	Design, synthesis, spectral characterization, photoâ€cleavage, and in vitro evaluation of anticancer activities of new transition metal complexes of piperazine based Schiff baseâ€oxime ligand. Applied Organometallic Chemistry, 2022, 36, .	1.7	6
56	Synthesis and structural characterization of Pd(N,N-dimethylaminopropylamine)Cl2 complex â€“ The interaction with bio-relevant ligands with reference to the effect of cysteine on the deactivation of metal-based drug. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 96, 809-814.	2.0	5
57	Synthesis and Tautomeric Structure of Tris(arylazo) Derivatives of Novel 1Hâ€Bisâ€imidazo[1,2â€b:2â€²,1â€²â€e]pyrazole Ring System. Journal of Heterocyclic Chemistry, 2015, 52, 545-550.	1.4	5
58	Studies on Pd(1,4-bis(2-hydroxyethyl)piperazine)-dicarboxylic acid complexes as models for carboplatin with structural features enhancing the interaction with DNA. Journal of Coordination Chemistry, 2019, 72, 2035-2049.	0.8	5
59	Co(II), Ni(II), and Cu(II) complexes derived from 1,2,4-triazine: synthesis, characterization, anticancer activity, DFT, and molecular docking studies with a COVID-19 protein receptor. Journal of Coordination Chemistry, 2022, 75, 668-688.	0.8	5
60	Potentiometric Study of Speciation and Thermodynamics of Complex Formation Equilibria of Diorganotin(IV) Dichloride with 1-(2-Aminoethyl)piperazine. Journal of Solution Chemistry, 2016, 45, 410-430.	0.6	4
61	Optical spectroscopic investigations on silver doped sodium phosphate glass. Optical and Quantum Electronics, 2017, 49, 1.	1.5	4
62	Potentiality of methyltrioctylammonium chloride ligand for selective extraction of the Uranium(VI) metal ions from selective carbonate leach liquor. Journal of Dispersion Science and Technology, 2017, 38, 1204-1210.	1.3	4
63	Equilibrium and DFT studies of the bi- and mononuclear complexes of 4,4â€²-bipiperidine with Pd(2-(2-aminoethyl)-1-methylpyrrolidine) 2+ and other biorelevant ligands. Journal of Molecular Structure, 2018, 1159, 216-225.	1.8	4
64	Synthesis, spectroscopic characterizations, biological activity, DNA-binding investigation combined with DFT studies of new proton-transfer complexes of 2,4-diaminopyrimidine with 2,6-dichloro-4-nitrophenol and 3,5-dinitrosalicylic acid. Journal of Molecular Liquids, 2022, 350, 118508.	2.3	4
65	Cellulose-based activated carbon/layered double hydroxide for efficient removal of Clarithromycin residues and efficient role in the treatment of stomach ulcers and acidity problems. International Journal of Biological Macromolecules, 2022, 215, 705-728.	3.6	4
66	Mixed ligand complexes of [Pd(terpy)(H2O)]2+ with some selected amino acids, peptides, DNA and related ligands. Arabian Journal of Chemistry, 2019, 12, 1395-1405.	2.3	3
67	C(-260)T Polymorphism in CD14 Receptor Gene of Egyptians with Acute Myocardial Infarction. Current Pharmaceutical Biotechnology, 2018, 19, 336-342.	0.9	3
68	Developing the sensing features of copper electrodes as an environmental friendly detection tool for chemical oxygen demand. RSC Advances, 2022, 12, 4199-4208.	1.7	3
69	Potentiometric studies of binary and ternary complexes of Zn(II) with triethylenetetramine as primary ligand and selected amino acids and DNA units as secondary ligands. Mikrochimica Acta, 1997, 127, 105-111.	2.5	2
70	Synthesis and Tautomeric Structure of 3,7-bis(arylazo)-2,6-dimethyl-1H-imidazo[1,2-b]pyrazoles. Journal of Chemical Research, 2013, 37, 127-130.	0.6	2
71	Electrochemical Detection of Nicotine Using Cerium Nanoparticles Modified Carbon Paste Sensor and Anionic Surfactant. Springer Proceedings in Physics, 2015, , 229-240.	0.1	2
72	Synthesis, characterization, thermal degradation, docking, DFT calculation, and biological activity of dimethyltin(IV) complex with homopiperazine. Journal of the Chinese Chemical Society, 0, , .	0.8	2

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73	Extraction of gadolinium from El-Garra El-Hamra rare-earth cake, South Western Desert, Egypt. Journal of Radioanalytical and Nuclear Chemistry, 2014, 299, 1231-1240.	0.7	0
74	Kinetics, mechanism and density functional theory calculations on base hydrolysis of Î±-amino acid esters catalyzed by [Pd(AEMP)(H2O)2]2+ (AEMPâ€‰=â€‰2-(2-aminoethyl)-1-methylpyrrolidine). Reaction Kinetics, Mechanisms and Catalysis, 2020, 129, 613-626.	0.8	0