

Gareth Mostyn Watkins

List of Publications by Year in descending order

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53
papers

863
citations

759233

12
h-index

477307

29
g-index

53
all docs

53
docs citations

53
times ranked

1273
citing authors

#	ARTICLE	IF	CITATIONS
1	Through metal binding, curcumin protects against lead- and cadmium-induced lipid peroxidation in rat brain homogenates and against lead-induced tissue damage in rat brain. <i>Journal of Inorganic Biochemistry</i> , 2004, 98, 266-275.	3.5	256
2	Curcuminoids, Curcumin, and Demethoxycurcumin Reduce Lead-Induced Memory Deficits in Male Wistar Rats. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 1039-1044.	5.2	101
3	Synthesis and characterization of a cobalt-2,6-pyridinedicarboxylate MOF with potential application in electrochemical sensing. <i>Polyhedron</i> , 2017, 137, 188-196.	2.2	55
4	Batch studies on the removal of gold(III) from aqueous solution by <i>Azolla filiculoides</i> . <i>Biotechnology Letters</i> , 2001, 23, 249-251.	2.2	46
5	The infrared spectra of ethylenediamine complexes ^{II} . Tris-, bis- and mono(ethylenediamine) complexes of metal(II) halides. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1990, 46, 13-22.	0.1	43
6	A full vibrational assignment (4000-50 cm ⁻¹) of 1, 10-phenanthroline and its perdeuterated analogue. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1991, 47, 1085-1096.	0.1	40
7	The Infrared Spectra (4000-50 cm ⁻¹) of Complexes of 2,2'-Bipyridine, 1,10-Phenanthroline and their Perdeuterated Analogues with Metal(II) Perchlorates of the First Transition Series. <i>Journal of Coordination Chemistry</i> , 1992, 25, 299-315.	2.2	37
8	The thermal decomposition of copper(II) oxalate revisited. <i>Thermochimica Acta</i> , 2006, 446, 91-100.	2.7	35
9	Synthesis, crystal structure, experimental and theoretical studies of corrosion inhibition of 2-((4-(2-hydroxy-4-methylbenzyl)piperazin-1-yl)methyl)-5-methylphenol - A Mannich base. <i>Journal of Molecular Structure</i> , 2020, 1219, 128539.	3.6	28
10	Spectroscopic, structural and theoretical studies of copper(II) complexes of tridentate NOS Schiff bases. <i>Journal of Molecular Structure</i> , 2016, 1122, 72-79.	3.6	21
11	Vibrational conformational analysis of methyl fluoroacetate and methyl difluoroacetate. <i>Journal of Molecular Structure</i> , 1993, 293, 55-58.	3.6	13
12	Isotope labelling studies of some aromatic N-oxides ^I . A full vibrational assignment of the infrared and Raman spectra (4000-50 cm ⁻¹) of pyrazine N,N ² -dioxide and its fully deuterated analogue. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1990, 46, 1439-1451.	0.1	12
13	Current Trend in Synthesis, Post-Synthetic Modifications and Biological Applications of Nanometal-Organic Frameworks (NMOFs). <i>Chinese Journal of Chemistry</i> , 2019, 37, 378-404.	4.9	12
14			

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19	A re-examination of the infrared spectra of first transition series metal(II) and metal(III) tropolonates. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1989, 45, 1179-1186.	0.1	8
20	Isotope Labelling Studies of Some Aromatic <i>N</i> -Oxides -Part IV. A Full Vibrational Assignment of the Infrared Spectra (4000-50 cm^{-1}) of Quinoline <i>N</i> -Oxide Dihydrate and its Fully Deuterated Analogue. <i>Bulletin Des Sociétés Chimiques Belges</i> , 1991, 100, 235-245.	0.0	8
21	Crystal structures, spectroscopic and theoretical study of novel Schiff bases of 2-(methylthiomethyl)anilines. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 139, 385-395.	3.9	8
22	Kinetic studies of the impact of thiocyanate moiety on the catalytic properties of Cu(II) and Fe(III) complexes of a new Mannich base. <i>Journal of Molecular Structure</i> , 2018, 1158, 19-25.	3.6	8
23	Isotope Labelling Studies of Some Aromatic <i>N</i> -Oxides -Part II. A Full Vibrational Assignment of the Infrared and Raman Spectra (4000-50 cm^{-1}) of Pyrazine <i>N</i> -Oxide and its Fully Deuterated Analogue. <i>Bulletin Des Sociétés Chimiques Belges</i> , 1991, 100, 211-220.	0.0	6
24	Isotope Labelling Studies of Some Aromatic <i>N</i> -Oxides -Part III. A Full Vibrational Assignment of the Infrared Spectra (4000-50 cm^{-1}) of 2,2'-Bipyridine <i>N,N'</i> -Dioxide and its Fully Deuterated Analogue. <i>Bulletin Des Sociétés Chimiques Belges</i> , 1991, 100, 221-233.	0.0	6
25	An Exploratory Study of Tridentate Amine Extractants: Solvent Extraction and Coordination Chemistry of Base Metals with $\text{N,N}'$ -bis((1 <i>R</i> -benzimidazol-2-yl)methyl)amine. <i>International Journal of Nonferrous Metallurgy</i> , 2012, 01, 49-58.	0.3	6
26	The Infrared Spectra (4000-50 cm^{-1}) of Complexes of 2,2'-Bipyridine- <i>N,N'</i> -Dioxide and its Perdeuterated Analogue with Metal(II) Perchlorates of the First Transition Series. <i>Journal of Coordination Chemistry</i> , 1992, 25, 317-326.	2.2	5
27	Polymorphism of a new Mannich base - [4-methyl-2-((4-(4-nitrophenyl)piperazin-1-yl)methyl)phenol]. <i>Journal of Molecular Structure</i> , 2018, 1160, 38-45.	3.6	5
28	Synthesis, characterization and biological study of Cu(II) complexes of aminopyridine and (aminomethyl)pyridine Schiff bases. <i>Journal of the Serbian Chemical Society</i> , 2018, 83, 809-819.	0.8	5
29	The Infrared Spectra of Complexes of Variously-Substituted Anilines with Platinum (II) Halides. <i>Spectroscopy Letters</i> , 1981, 14, 455-462.	1.0	4
30	Ligand isotope studies of Zeise's salt derivatives (and their CO analogues) with some aza-heterocycles and their <i>N</i> -oxides. II : Their preparation, characterisation, and use in developing ^1H nmr and infrared spectra as a diagnostic tool. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1992, 48, 597-604.	0.1	4
31	The coordination and extractive chemistry of the later 3d transition metals with $\text{N,N}'$ -bis((1 <i>R</i> -benzimidazol-2-yl)methyl)sulfide. <i>Journal of Coordination Chemistry</i> , 2013, 66, 114-125.	2.2	4
32	Synthesis, spectral characterization, and biological activities of Cobalt(II) complexes of Schiff bases derived from <i>o</i> -vanillin and <i>p</i> -vanillin with 3-aminopyridine. <i>Ife Journal of Science</i> , 2019, 21, 27.	0.3	4
33	Electrocatalytic detection of <i>L</i> -cysteine using molybdenum POM doped-HKUST-1 metal organic frameworks. <i>Journal of Coordination Chemistry</i> , 2021, 74, 1730-1748.	2.2	4
34	Synthesis and evaluation of catecholase activities of metal complexes of 1,4-substituted piperazine Mannich base of 4-acetamidophenol. <i>Turkish Journal of Chemistry</i> , 2018, 42, 1275-1284.	1.2	4
35	Ligand isotope studies of Zeise's salt derivatives (and their CO analogues) with some aza-heterocycles and their <i>N</i> -oxides. I: Full infrared spectral assignments (4000-50 cm^{-1}). <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1992, 48, 577-595.	0.1	3
36	The IR, NMR (^1H , ^{13}C) and electronic spectra of the complexes $\text{cis}[\text{Rh}(\text{CO})_2(\text{pyridine-}N\text{-oxide})(\text{X})]$ ($\text{X} = \frac{1}{4} \text{Cl}$), $\text{Tj ETQ} 0 0 0 \text{rgBT /Overl}$	5.5	3

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37	The Limitations to Employing the Vibrational Assignment Notation of an Aromatic Homocycle to Its Heterocyclic Analogues. <i>Spectroscopy Letters</i> , 1993, 26, 887-895.	1.0	3
38	Guest inclusion of methanol and ethanol in zirconium metal-organic frameworks (Zr-MOFs). <i>Materials Today: Proceedings</i> , 2018, 5, 10415-10423.	1.8	3
39	<i>N</i> -Donor Methylthioanilines and Copper(II) Complexes: Synthesis, Spectral Properties, and In Vitro Antimicrobial Activity. <i>Heteroatom Chemistry</i> , 2019, 2019, 1-7.	0.7	3
40	Synthesis, characterization and crystal structures of two new phenolic mannich bases. <i>Bulletin of the Chemical Society of Ethiopia</i> , 2019, 33, 341.	1.1	3
41	THE INFRARED SPECTRA (4000 - 50 cm^{-1}) OF COMPLEXES OF QUINOLINE <i>N</i> -OXIDE AND ITS PERDEUTERATED ANALOGUE WITH METAL(II) PERCHLORATES OF THE FIRST TRANSITION SERIES. <i>Journal of Coordination Chemistry</i> , 1993, 29, 45-56.	2.2	2
42	Infrared Spectra of the Square Planar Rhodium(I) Complexes <i>cis</i> -[Rh(CO) ₂ (pyridine)(X)] (X = Cl, Br): Isotopic Labelling Studies and Normal Coordinate Analysis. <i>Spectroscopy Letters</i> , 1993, 26, 1247-1267.	1.0	2
43	Biomimetics of mononuclear and dinuclear Cu(II) and Fe(III) complexes of a newly synthesized piperazyl Mannich base with or without thiocyanate towards catechol. <i>Monatshefte für Chemie</i> , 2018, 149, 2175-2182.	1.8	2
44	A Double Isotopic Labelling Study of the Infrared Spectra of the Linkage Isomers [Pd(bipy)(SCN) ₂], [Pd(bipy)(NCS) ₂] and Related Complexes. <i>Spectroscopy Letters</i> , 1989, 22, 935-944.	1.0	1
45	Copper(II) Complexes of 2-(Methylthiomethyl)anilines: Spectral and Structural Properties and In Vitro Antimicrobial Activity. <i>Chinese Journal of Inorganic Chemistry</i> , 2014, 2014, 1-10.	0.2	1
46	Synthesis, characterization and antimicrobial activity of copper(II) Schiff base adducts of some <i>p</i> -substituted aniline Schiff bases. <i>Bulletin of the Chemical Society of Ethiopia</i> , 2021, 35, 33-42.	1.1	1
47	Impact of Thiocyanate on the Catecholase Activity of Cu(II) and Fe(III) Complexes of 2-((4-(2-Hydroxy-4-Methylbenzyl)Piperazin-1-yl)Methyl)-5-Methylphenol (A Mannich Base). <i>Acta Chemica Iasi</i> , 2018, 26, 59-73.	0.1	1
48	Dimethylammonium 2,4,5-tricarboxybenzoate: an example of the decarbonylation of <i>N,N</i> -dimethylformamide in the presence of a metal and a benzenepolycarboxylic acid. Is zirconium(IV) the Tsotsi?. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2016, 72, 1521-1525.	0.5	1
49	Synthesis, structure, and theoretical studies of bis(five-coordinate) CuL_2 : predicting distortion toward trigonality. <i>Journal of Coordination Chemistry</i> , 2016, 69, 81-89.	2.2	0
50	Molecular and Crystal Structure of a Novel Mannich Quaternary Salt: 3-(Dimethylamino)-1- <i>p</i> -Tolylpropan-1-One Hydrochloride. <i>Journal of Structural Chemistry</i> , 2018, 59, 1688-1690.	1.0	0
51	The crystal structure of 2-oxo-2- <i>H</i> -chromen-4-yl acetate, $\text{C}_{11}\text{H}_8\text{O}_4$. <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2020, 235, 397-398.	0.3	0
52	Exploring intermolecular contacts in multi-substituted benzaldehyde derivatives: X-ray, Hirshfeld surface and lattice energy analyses. <i>RSC Advances</i> , 2020, 10, 16861-16874.	3.6	0
53	Synthesis and crystal structure of hexaaquacopper(II) 2,5-dicarboxyterephthalate, $\text{C}_{10}\text{H}_{16}\text{O}_{14}\text{Cu}$. <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2021, 236, 37-38.	0.3	0