

# 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

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53  
docs citations

53  
times ranked

1273  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Electrocatalytic detection of L-cysteine using molybdenum POM doped-HKUST-1 metal organic frameworks. <i>Journal of Coordination Chemistry</i> , 2021, 74, 1730-1748.   | 2.2 | 4         |
| 2  | Synthesis, characterization and antimicrobial activity of copper(II) Schiff base adducts of some p-substituted aniline Schiff bases. <i>Bulletin of the Chemical Society of Ethiopia</i> , 2021, 35, 33-42.                                       | 1.1 | 1         |
| 3  | Synthesis and crystal structure of hexaaquacopper(II) 2,5-dicarboxytetraphthalate, C <sub>10</sub> H <sub>16</sub> O <sub>14</sub> Cu. <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2021, 236, 37-38.                       | 0.3 | 0         |
| 4  | The crystal structure of 2-oxo-2H-chromen-4-yl acetate, C <sub>11</sub> H <sub>8</sub> O <sub>4</sub> . <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2020, 235, 397-398.  | 0.3 | 0         |
| 5  | 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        |
| 6  | 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         |
| 7  | Synthesis, spectral characterization, and biological activities of Cobalt(II) complexes of Schiff bases derived from 3-vanillin and 3-p-vanillin with 3-aminopyridine. <i>Journal of Science</i> , 2019, 21, 27.                                  | 0.3 | 4         |
| 8  | σ-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         |
| 9  | 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         |
| 10 | 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        |
| 11 | 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         |
| 12 | 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         |
| 13 | 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         |
| 14 | Molecular and Crystal Structure of a Novel Mannich Quaternary Salt: 3-(Dimethylamino)-1-p-Tolylpropan-1-One Hydrochloride. <i>Journal of Structural Chemistry</i> , 2018, 59, 1688-1690.  | 1.0 | 0         |
| 15 | 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         |
| 16 | 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         |
| 17 | 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         |
| 18 | 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         |

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|----|--|-----|-----------|
| 19 | 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        |
| 20 | 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        |
| 21 | Synthesis, structure, and theoretical studies of bis(five-coordinate) $[CuL_2]_2$ : predicting distortion toward trigonality. <i>Journal of Coordination Chemistry</i> , 2016, 69, 81-89.  | 2.2 | 0         |
| 22 | Dimethylammonium 2,4,5-tricarboxybenzoate: an example of the decarbonylation of N,N-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         |
| 23 | 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         |
| 24 | 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         |
| 25 | The coordination and extractive chemistry of the later 3d transition metals with bis((1-R-benzimidazol-2-yl)methyl)sulfide. <i>Journal of Coordination Chemistry</i> , 2013, 66, 114-125.  | 2.2 | 4         |
| 26 | An Exploratory Study of Tridentate Amine Extractants: Solvent Extraction and Coordination Chemistry of Base Metals with $(1-R-benzimidazol-2-yl)methyl)amine$ . <i>International Journal of Nonferrous Metallurgy</i> , 2012, 01, 49-58.   | 0.3 | 6         |
| 27 | Introducing Chemistry Students to the "Real World" of Chemistry. <i>Journal of Chemical Education</i> , 2010, 87, 500-503.   | 2.3 | 9         |
| 28 | 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       |
| 29 | The thermal decomposition of copper(II) oxalate revisited. <i>Thermochimica Acta</i> , 2006, 446, 91-100.  | 2.7 | 35        |
| 30 | 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       |
| 31 | 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        |
| 32 | Thermal and structural studies of amide complexes of transition metal(II) chlorides. I: Stoichiometry. <i>Thermochimica Acta</i> , 1998, 318, 165-175.   | 2.7 | 10        |
| 33 | Vibrational conformational analysis of methyl fluoroacetate and methyl difluoroacetate. <i>Journal of Molecular Structure</i> , 1993, 293, 55-58.  | 3.6 | 13        |
| 34 | THE INFRARED SPECTRA (4000 - 50 $cm^{-1}$ ) OF COMPLEXES OF QUINOLINE-N-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         |
| 35 | The IR, NMR (1H, 13C) and electronic spectra of the complexes $cis-[Rh(CO)_2(pyridine-N-oxide)(X)]$ ( $X = \frac{1}{4} Cl$ ). <i>Tj ETQq1 1 0.784314</i>   | 5.5 | 3         |
| 36 | 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         |

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|----|--|-----|-----------|
| 37 | Infrared Spectra of the Square Planar Rhodium(I) Complexes $[\text{Rh}(\text{CO})_2(\text{pyridine})_2(\text{X})]$ (X = Cl, Br): Isotopic Labelling Studies and Normal Coordinate Analysis. <i>Spectroscopy Letters</i> , 1993, 26, 1247-1267.   | 1.0 | 2         |
| 38 | An Assessment of the Assignment of Characteristic N-O Vibrations in Aromatic N-Oxides. <i>Spectroscopy Letters</i> , 1992, 25, 1023-1036.  | 1.0 | 9         |
| 39 | The Infrared Spectra (4000–50 $\text{cm}^{-1}$ ) of Complexes of 2,2'-Bipyridine-N,N'-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         |
| 40 | Ligand isotope studies of Zeise's salt derivatives (and their CO analogues) with some aza-heterocycles and their N-oxides. II: Their preparation, characterisation, and use in developing $^1\text{H}$ nmr and infrared spectra as a diagnostic tool. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1992, 48, 597-604. | 0.1 | 4         |
| 41 | The Infrared Spectra (4000–50 $\text{cm}^{-1}$ ) 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        |
| 42 | Ligand isotope studies of Zeise's salt derivatives (and their CO analogues) with some aza-heterocycles and their N-oxides. I: Full infrared spectral assignments (4000-50 $\text{cm}^{-1}$ ). <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1992, 48, 577-595.   | 0.1 | 3         |
| 43 | A full vibrational assignment (4000-50 $\text{cm}^{-1}$ ) of 1, 10-phenanthroline and its perdeuterated analogue. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1991, 47, 1085-1096.   | 0.1 | 40        |
| 44 | Isotope Labelling Studies of Some Aromatic N-Oxides - Part II. A Full Vibrational Assignment of the Infrared and Raman Spectra (4000–50 $\text{cm}^{-1}$ ) of Pyrazine N-Oxide and its Fully Deuterated Analogue. <i>Bulletin Des Sociétés Chimiques Belges</i> , 1991, 100, 211-220.  | 0.0 | 6         |
| 45 | Isotope Labelling Studies of Some Aromatic N-Oxides - Part III. A Full Vibrational Assignment of the Infrared Spectra (4000–50 $\text{cm}^{-1}$ ) of 2,2'-Bipyridine N,N'-Dioxide and its Fully Deuterated Analogue. <i>Bulletin Des Sociétés Chimiques Belges</i> , 1991, 100, 221-233.   | 0.0 | 6         |
| 46 | Isotope Labelling Studies of Some Aromatic N-Oxides - Part IV. A Full Vibrational Assignment of the Infrared Spectra (4000–50 $\text{cm}^{-1}$ ) of Quinoline N-Oxide Dihydrate and its Fully Deuterated Analogue. <i>Bulletin Des Sociétés Chimiques Belges</i> , 1991, 100, 235-245.   | 0.0 | 8         |
| 47 | Isotope labelling studies of some aromatic N-oxides. I. A full vibrational assignment of the infrared and Raman spectra (4000-50 $\text{cm}^{-1}$ ) of pyrazine N,N'-dioxide and its fully deuterated analogue. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1990, 46, 1439-1451.                                     | 0.1 | 12        |
| 48 | 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        |
| 49 | A Double Isotopic Labelling Study of the Infrared Spectra of the Linkage Isomers $[\text{Pd}(\text{bipy})(\text{SCN})_2]$ , $[\text{Pd}(\text{bipy})(\text{NCS})_2]$ and Related Complexes. <i>Spectroscopy Letters</i> , 1989, 22, 935-944.   | 1.0 | 1         |
| 50 | 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         |
| 51 | The Infrared Spectra of Complexes of Variously-Substituted Anilines with Platinum (II) Halides. <i>Spectroscopy Letters</i> , 1981, 14, 455-462.   | 1.0 | 4         |
| 52 |  |     |           |