

# Trevor W Hambley

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/7752624/trevor-w-hambley-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

186  
papers

8,851  
citations

51  
h-index

88  
g-index

200  
ext. papers

9,445  
ext. citations

5.9  
avg, IF

6.22  
L-index

| #   | Paper  | IF   | Citations |
|-----|--|------|-----------|
| 186 | Platinum(IV) antitumour compounds: their bioinorganic chemistry. <i>Coordination Chemistry Reviews</i> , <b>2002</b> , 232, 49-67  | 23.2 | 487       |
| 185 | Copper complexes of non-steroidal anti-inflammatory drugs: an opportunity yet to be realized. <i>Coordination Chemistry Reviews</i> , <b>2002</b> , 232, 95-126  | 23.2 | 423       |
| 184 | Basis for design and development of platinum(IV) anticancer complexes. <i>Journal of Medicinal Chemistry</i> , <b>2007</b> , 50, 3403-11   | 8.3  | 349       |
| 183 | The Discovery and Development of Cisplatin. <i>Journal of Chemical Education</i> , <b>2006</b> , 83, 728   | 2.4  | 318       |
| 182 | The influence of structure on the activity and toxicity of Pt anti-cancer drugs. <i>Coordination Chemistry Reviews</i> , <b>1997</b> , 166, 181-223  | 23.2 | 294       |
| 181 | A 1H NMR Study of the DNA Binding of Ruthenium(II) Polypyridyl Complexes. <i>Inorganic Chemistry</i> , <b>1998</b> , 37, 3133-3141   | 5.1  | 291       |
| 180 | Platinum drug distribution in cancer cells and tumors. <i>Chemical Reviews</i> , <b>2009</b> , 109, 4911-20  | 68.1 | 281       |
| 179 | Developing new metal-based therapeutics: challenges and opportunities. <i>Dalton Transactions</i> , <b>2007</b> , 4929-37  | 4.3  | 262       |
| 178 | Chemistry. Metal-based therapeutics. <i>Science</i> , <b>2007</b> , 318, 1392-3  | 33.3 | 171       |
| 177 | Bioreductive activation and drug chaperoning in cobalt pharmaceuticals. <i>Dalton Transactions</i> , <b>2007</b> , 3983-90   | 4.9  | 147       |
| 176 | Syntheses and characterization of anti-inflammatory dinuclear and mononuclear zinc indomethacin complexes. Crystal structures of [Zn <sub>2</sub> (indomethacin) <sub>4</sub> (L) <sub>2</sub> ] (L = N,N-dimethylacetamide, pyridine, 1-methyl-2-pyrrolidinone) and [Zn(indomethacin) <sub>2</sub> (L <sub>1</sub> ) <sub>2</sub> ] (L <sub>1</sub> = ethanol, methanol). <i>Inorganic Chemistry</i> , <b>2000</b> , 39, 3742-8 | 5.1  | 140       |
| 175 | Pt(IV) analogs of oxaliplatin that do not follow the expected correlation between electrochemical reduction potential and rate of reduction by ascorbate. <i>Chemical Communications</i> , <b>2012</b> , 48, 847-9   | 5.8  | 139       |
| 174 | Slowing of cisplatin aquation in the presence of DNA but not in the presence of phosphate: improved understanding of sequence selectivity and the roles of mono-aquated and diaquated species in the binding of cisplatin to DNA. <i>Inorganic Chemistry</i> , <b>2000</b> , 39, 5603-13   | 5.1  | 132       |
| 173 | Is anticancer drug development heading in the right direction?. <i>Cancer Research</i> , <b>2009</b> , 69, 1259-62   | 10.1 | 129       |
| 172 | The cellular distribution and oxidation state of platinum(II) and platinum(IV) antitumour complexes in cancer cells. <i>Journal of Biological Inorganic Chemistry</i> , <b>2003</b> , 8, 726-32  | 3.7  | 128       |
| 171 | XANES determination of the platinum oxidation state distribution in cancer cells treated with platinum(IV) anticancer agents. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 7524-5  | 16.4 | 121       |
| 170 | Anti-Inflammatory Dinuclear Copper(II) Complexes with Indomethacin. Synthesis, Magnetism and EPR Spectroscopy. Crystal Structure of the N,N-Dimethylformamide Adduct. <i>Inorganic Chemistry</i> , <b>1999</b> , 38, 1736-1744   | 5.1  | 118       |

|     |   |     |     |
|-----|---|-----|-----|
| 169 | Platinum binding to DNA: structural controls and consequences. <i>Dalton Transactions RSC</i> , <b>2001</b> , 2711-2718   |     | 115 |
| 168 | Delivery and release of curcumin by a hypoxia-activated cobalt chaperone: a XANES and FLIM study. <i>Chemical Science</i> , <b>2013</b> , 4, 3731   | 9.4 | 111 |
| 167 | The mechanism of action of platinum(IV) complexes in ovarian cancer cell lines. <i>Journal of Inorganic Biochemistry</i> , <b>2004</b> , 98, 1614-24  | 4.2 | 108 |
| 166 | Studies of a cobalt(III) complex of the MMP inhibitor marimastat: a potential hypoxia-activated prodrug. <i>Chemistry - A European Journal</i> , <b>2007</b> , 13, 2974-82  | 4.8 | 107 |
| 165 | Cationic Iridium(I) Complexes as Catalysts for the Alcoholysis of Silanes. <i>Organometallics</i> , <b>2003</b> , 22, 2387-2395   | 3.9 | 105 |
| 164 | Mechanisms of cell uptake and toxicity of the anticancer drug cisplatin. <i>Metallomics</i> , <b>2014</b> , 6, 2126-33  | 4.5 | 104 |
| 163 | Immobilization of Platinated and Iodinated Oligonucleotides on Carbon Nanotubes. <i>Angewandte Chemie International Edition in English</i> , <b>1997</b> , 36, 2198-2200  |     | 102 |
| 162 | Synthesis, Structure, Biological Activity, and DNA Binding of Platinum(II) Complexes of the Type trans-[PtCl(2)(NH(3))L] (L = Planar Nitrogen Base). Effect of L and Cis/Trans Isomerism on Sequence Specificity and Unwinding Properties Observed in Globally Platinated DNA. <i>Inorganic Chemistry</i> , <b>1999</b> , 38, 3535-3542                         | 5.1 | 98  |
| 161 | Interpretation of Electronic and EPR Spectra of Copper(II) Amine Complexes: A Test of the MM-AOM Method. <i>Inorganic Chemistry</i> , <b>1995</b> , 34, 3903-3911   | 5.1 | 90  |
| 160 | The fate of platinum(II) and platinum(IV) anti-cancer agents in cancer cells and tumours. <i>Journal of Structural Biology</i> , <b>2006</b> , 155, 38-44   | 3.4 | 88  |
| 159 | Minor groove intercalation of [Ru(Me2phen)2dppz]2+ to the hexanucleotide d(GTCGAC)2. <i>Dalton Transactions RSC</i> , <b>2002</b> , 849   |     | 88  |
| 158 | Facile preparation of mono-, di- and mixed-carboxylato platinum(IV) complexes for versatile anticancer prodrug design. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 1672-6   | 4.8 | 83  |
| 157 | Gastrointestinal toxicity, antiinflammatory activity, and superoxide dismutase activity of copper and zinc complexes of the antiinflammatory drug indomethacin. <i>Chemical Research in Toxicology</i> , <b>2003</b> , 16, 28-37  | 4   | 80  |
| 156 | van der Waals Radii of Pt(II) and Pd(II) in Molecular Mechanics Models and an Analysis of Their Relevance to the Description of Axial M.H(-C), M.H(-N), M.S, and M.M (M = Pd(II) or Pt(II)) Interactions. <i>Inorganic Chemistry</i> , <b>1998</b> , 37, 3767-3774  | 5.1 | 80  |
| 155 | Calculation of the hydrophobicity of platinum drugs. <i>Journal of Medicinal Chemistry</i> , <b>2001</b> , 44, 472-4  | 8.3 | 75  |
| 154 | Dual targeting of hypoxic and acidic tumor environments with a cobalt(III) chaperone complex. <i>Journal of Medicinal Chemistry</i> , <b>2012</b> , 55, 11013-21  | 8.3 | 73  |
| 153 | Modification of Platinum(II) Antitumor Complexes with Sulfur Ligands. 1. Synthesis, Structure, and Spectroscopic Properties of Cationic Complexes of the Types [PtCl(diamine)(L)]NO3 and [(PtCl(diamine))2(L-L)](NO3)2 (L = Monofunctional Thiourea Derivative; L-L = Bifunctional Thiourea Derivative). <i>Inorganic Chemistry</i> , <b>1998</b> , 37, 708-715 | 5.1 | 71  |
| 152 | Molecular mechanics analysis of the stereochemical factors influencing monofunctional and bifunctional binding of cis-diamminedichloroplatinum(II) to adenine and guanine nucleobases in the sequences d(GpApGpG).cntdot.d(CpCpTpC) and d(GpGpApG).cntdot.d(CpTpCpC) of A- and B-DNA. <i>Inorganic Chemistry</i> , <b>1991</b> , 30, 837-848                    | 5.1 | 71  |

|     |   |      |    |
|-----|---|------|----|
| 151 | Preparation and characterization of dinuclear copper(II) indomethacin anti-inflammatory drugs. <i>Inorganica Chimica Acta</i> , <b>2001</b> , 324, 150-161  | 2.7  | 66 |
| 150 | Accumulation of an anthraquinone and its platinum complexes in cancer cell spheroids: the effect of charge on drug distribution in solid tumour models. <i>Chemical Communications</i> , <b>2009</b> , 2673-5   | 5.8  | 64 |
| 149 | Influence of equatorial and axial carboxylato ligands on the kinetic inertness of platinum(IV) complexes in the presence of ascorbate and cysteine and within DLD-1 cancer cells. <i>Journal of Medicinal Chemistry</i> , <b>2013</b> , 56, 8757-64   | 8.3  | 62 |
| 148 | DFT study of the systematic variations in metal-ligand bond lengths of coordination complexes: the crucial role of the condensed phase. <i>Inorganic Chemistry</i> , <b>2007</b> , 46, 8238-44  | 5.1  | 62 |
| 147 | Cobalt(III) Chaperone Complexes of Curcumin: Photoreduction, Cellular Accumulation and Light-Selective Toxicity towards Tumour Cells. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 15224-34  | 4.8  | 60 |
| 146 | Investigations using fluorescent ligands to monitor platinum(IV) reduction and platinum(II) reactions in cancer cells. <i>Dalton Transactions</i> , <b>2009</b> , 3092-101  | 4.3  | 57 |
| 145 | Preparation, DNA binding, and in vitro cytotoxicity of a pair of enantiomeric platinum(II) complexes, [(R)- and (S)-3-aminohexahydroazepine]dichloroplatinum(II). Crystal structure of the S enantiomer. <i>Journal of Medicinal Chemistry</i> , <b>1997</b> , 40, 1090-8                           | 8.3  | 56 |
| 144 | Macrocyclic ligand design. X-Ray, DFT and solution studies of the effect of N-methylation and N-benylation of 1,4,10,13-tetraoxa-7,16-diazacyclooctadecane on its affinity for selected transition and post-transition metal ions. <i>Dalton Transactions RSC</i> , <b>2001</b> , 614-620           |      | 56 |
| 143 | Platination of a GG site on single-stranded and double-stranded forms of a 14-base oligonucleotide with diaqua cisplatin followed by NMR and HPLC -- influence of the platinum ligands and base sequence on 5PG versus 3PG platination selectivity. <i>FEBS Journal</i> , <b>1997</b> , 249, 370-82 |      | 55 |
| 142 | Elemental tomography of cancer-cell spheroids reveals incomplete uptake of both platinum(II) and platinum(IV) complexes. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 13400-1   | 16.4 | 55 |
| 141 | Getting to the core of platinum drug bio-distributions: the penetration of anti-cancer platinum complexes into spheroid tumour models. <i>Metallomics</i> , <b>2012</b> , 4, 1209-17  | 4.5  | 54 |
| 140 | Models of hypoxia activated prodrugs: Co(III) complexes of hydroxamic acids. <i>Dalton Transactions</i> , <b>2006</b> , 1895-901  | 4.3  | 54 |
| 139 | Harnessing the properties of cobalt coordination complexes for biological application. <i>Coordination Chemistry Reviews</i> , <b>2018</b> , 375, 221-233   | 23.2 | 54 |
| 138 | Steric contributions to the thermodynamics of electron transfer in cobalt(III) hexamine complexes. <i>Inorganic Chemistry</i> , <b>1988</b> , 27, 2496-2501   | 5.1  | 53 |
| 137 | Molecular mechanics analysis of the influence of interligand interactions on isomer stabilities and barriers to isomer interconversion in diammine- and bis(amine)bis(purine)platinum(II) complexes. <i>Inorganic Chemistry</i> , <b>1988</b> , 27, 1073-1077                                       | 5.1  | 53 |
| 136 | Rates of Platination of AG and GA Containing Double-Stranded Oligonucleotides: Insights into Why Cisplatin Binds to GG and AG but Not GA Sequences in DNA. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 11380-11390   | 16.4 | 52 |
| 135 | Quantitative measurement of the reduction of platinum(IV) complexes using X-ray absorption near-edge spectroscopy (XANES). <i>Metallomics</i> , <b>2012</b> , 4, 568-75   | 4.5  | 51 |
| 134 | Visualising the hypoxia selectivity of cobalt(III) prodrugs. <i>Chemical Science</i> , <b>2011</b> , 2, 2135  | 9.4  | 51 |

|     |   |      |    |
|-----|---|------|----|
| 133 | Determination of the structures of antiinflammatory copper(II) dimers of indomethacin by multiple-scattering analyses of X-ray absorption fine structure data. <i>Inorganic Chemistry</i> , <b>2001</b> , 40, 1295-302  | 5.1  | 51 |
| 132 | Database Analysis of Transition Metal Carbonyl Bond Lengths: Insight into the Periodicity of $\pi$ Back-Bonding, $\sigma$ Donation, and the Factors Affecting the Electronic Structure of the TM( $\pi$ )O Moiety. <i>Organometallics</i> , <b>2007</b> , 26, 2815-2823   | 3.8  | 50 |
| 131 | Studies of the binding of a series of platinum(IV) complexes to plasma proteins. <i>Journal of Inorganic Biochemistry</i> , <b>2002</b> , 88, 260-7   | 4.2  | 49 |
| 130 | The Directionality of d-Orbitals and Molecular-Mechanics Calculations of Octahedral Transition-Metal Compounds. <i>Helvetica Chimica Acta</i> , <b>1995</b> , 78, 2042-2047   | 2    | 49 |
| 129 | XANES investigation of the Co oxidation state in solution and in cancer cells treated with Co(III) complexes. <i>Journal of Inorganic Biochemistry</i> , <b>2006</b> , 100, 963-71  | 4.2  | 46 |
| 128 | Cobalt complexes with tripodal ligands: implications for the design of drug chaperones. <i>Dalton Transactions</i> , <b>2012</b> , 41, 11293-304  | 4.3  | 44 |
| 127 | Comparative efficacy of novel platinum(IV) compounds with established chemotherapeutic drugs in solid tumour models. <i>Biochemical Pharmacology</i> , <b>2004</b> , 67, 17-30  | 6    | 44 |
| 126 | Rhodium complexes containing bidentate imidazolyl ligands: synthesis and structure. <i>Journal of Organometallic Chemistry</i> , <b>1999</b> , 588, 69-77   | 2.3  | 43 |
| 125 | Preparation, characterization, cytotoxicity, and mutagenicity of a pair of enantiomeric platinum(II) complexes with the potential to bind enantioselectively to DNA. <i>Journal of Medicinal Chemistry</i> , <b>1993</b> , 36, 3663-8   | 8.3  | 43 |
| 124 | Towards bioreductively activated prodrugs: Fe(III) complexes of hydroxamic acids and the MMP inhibitor marimastat. <i>Journal of Inorganic Biochemistry</i> , <b>2007</b> , 101, 396-403  | 4.2  | 42 |
| 123 | Dinuclear Platinum Complexes Form a Novel Intrastrand Adduct with d(GpG), an anti-syn Conformation of the Macrochelate As Observed by NMR and Molecular Modeling. <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 9307-9313  | 16.4 | 40 |
| 122 | Platinum(IV) Anticancer Complexes <b>2004</b> , 297-322   |      | 38 |
| 121 | Cellular uptake and distribution of cobalt complexes of fluorescent ligands. <i>Journal of Biological Inorganic Chemistry</i> , <b>2008</b> , 13, 861-71  | 3.7  | 37 |
| 120 | [ $^1\text{H}$ , $^{15}\text{N}$ ] heteronuclear single quantum coherence NMR study of the mechanism of aquation of platinum(IV) ammine complexes. <i>Inorganic Chemistry</i> , <b>2008</b> , 47, 7673-80   | 5.1  | 36 |
| 119 | Reactions of the cis-diamminediaquaplatinum(II) cation with glycinamide, N-glycylglycine, and N-(N-glycylglycyl)glycine. Crystal structure of a complex with two diammineplatinum(II) cations bound to glycylglycinate. <i>Inorganic Chemistry</i> , <b>1990</b> , 29, 3562-3569  | 5.1  | 36 |
| 118 | Oxidative Addition of the Dithiobis(formamidinium) Cation to Platinum(II) Chloro Am(m)ine Compounds: Studies on Structure, Spectroscopic Properties, Reactivity, and Cytotoxicity of a New Class of Platinum(IV) Complexes Exhibiting S-Thiourea Coordination. <i>Inorganic Chemistry</i> , <b>1996</b> , 35, 4865-4872 | 5.1  | 35 |
| 117 | Synthesis of novel ruthenium complexes containing bidentateimidazole-based ligands. <i>Journal of the Chemical Society Dalton Transactions</i> , <b>1997</b> , 2341-2346  |      | 33 |
| 116 | Platinum(IV) analogues of AMD473 (cis-[PtCl <sub>2</sub> (NH <sub>3</sub> )(2-picoline)]): preparative, structural, and electrochemical studies. <i>Inorganic Chemistry</i> , <b>2006</b> , 45, 6317-22   | 5.1  | 33 |

|     |   |      |    |
|-----|---|------|----|
| 115 | Kinetics and structural aspects of the cisplatin interactions with guanine: A quantum mechanical description. <i>International Journal of Quantum Chemistry</i> , <b>2006</b> , 106, 2129-2144  | 2.1  | 33 |
| 114 | Structural measure of metal-ligand covalency from the bonding in carboxylate ligands. <i>Inorganic Chemistry</i> , <b>2003</b> , 42, 2833-5   | 5.1  | 33 |
| 113 | [Pt(2)Cl(2)( $\mu$ -(2-O(2))(2)([9]aneN(3))(2)]Cl(2): A Novel Platinum(IV) Dimer with Two Bridging Peroxo Ligands that Provides Insight into the Mechanism of Aerial Oxidation of Platinum(II). <i>Inorganic Chemistry</i> , <b>1998</b> , 37, 5408-5409  | 5.1  | 33 |
| 112 | Preparation, characterization, DNA binding, and in vitro cytotoxicity of the enantiomers of the platinum(II) complexes N-methyl-, N-ethyl- and N,N-dimethyl-(R)- and -(S)-3-aminohexahydroazepinedichloroplatinum(II). <i>Journal of Medicinal Chemistry</i> , <b>1997</b> , 40, 3508-15                              | 8.3  | 32 |
| 111 | Conformations of cyclic octapeptides and the influence of heterocyclic ring constraints upon calcium binding. <i>Perkin Transactions II RSC</i> , <b>2000</b> , 323-331   |      | 32 |
| 110 | Characterization and X-ray absorption spectroscopic studies of bis[quinato(2-)]oxochromate(V). <i>Inorganic Chemistry</i> , <b>2000</b> , 39, 990-7   | 5.1  | 32 |
| 109 | The synthesis and characterization of norbornylsilasesquioxanes. <i>Applied Organometallic Chemistry</i> , <b>1992</b> , 6, 253-260   | 3.1  | 32 |
| 108 | Structural investigations of palladium(II) and platinum(II) complexes of salicylhydroxamic acid. <i>Inorganic Chemistry</i> , <b>2002</b> , 41, 1223-8  | 5.1  | 31 |
| 107 | Polypyrazolylmethane complexes of ruthenium. <i>Dalton Transactions RSC</i> , <b>2001</b> , 1959-1965   |      | 31 |
| 106 | The use of spectroscopic imaging and mapping techniques in the characterisation and study of DLD-1 cell spheroid tumour models. <i>Integrative Biology (United Kingdom)</i> , <b>2012</b> , 4, 1072-80  | 3.7  | 30 |
| 105 | DNA Binding of a Platinum(II) Complex Designed To Bind Interstrand but Not Intrastrand. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 2673-2674  | 16.4 | 29 |
| 104 | The preparation and characterization of trans-platinum(IV) complexes with unusually high cytotoxicity. <i>Dalton Transactions</i> , <b>2011</b> , 40, 344-7   | 4.3  | 28 |
| 103 | Systematic differences in electrochemical reduction of the structurally characterized anti-cancer platinum(IV) complexes [Pt{(p-HC6F4)NCH2)2}(pyridine)2Cl2], [Pt{(p-HC6F4)NCH2)2}(pyridine)2(OH)2], and [Pt{(p-HC6F4)NCH2)2}(pyridine)2(OH)Cl]. <i>Journal of Inorganic Biochemistry</i> , <b>2012</b> , 115, 226-39 | 4.2  | 27 |
| 102 | The preparation and characterisation of cyclam/anthraquinone macrocyle/intercalator complexes and their interactions with DNA. <i>Dalton Transactions</i> , <b>2003</b> , 2728-2736   | 4.3  | 27 |
| 101 | NMR spectroscopic characterization of copper(II) and zinc(II) complexes of indomethacin. <i>Inorganic Chemistry</i> , <b>2004</b> , 43, 2943-6  | 5.1  | 27 |
| 100 | Investigations into the interactions between DNA and conformationally constrained pyridylamineplatinum(II) analogues of AMD473. <i>Inorganic Chemistry</i> , <b>2003</b> , 42, 3582-90  | 5.1  | 26 |
| 99  | Interactions of cisplatin and the copper transporter CTR1 in human colon cancer cells. <i>Journal of Biological Inorganic Chemistry</i> , <b>2017</b> , 22, 765-774   | 3.7  | 25 |
| 98  | A ratiometric fluorescent sensor for the mitochondrial copper pool. <i>Metallomics</i> , <b>2016</b> , 8, 915-9   | 4.5  | 25 |



|    |  |     |    |
|----|--|-----|----|
| 97 | Inhibition of experimental colorectal cancer and reduction in renal and gastrointestinal toxicities by copper-indomethacin in rats. <i>Cancer Chemotherapy and Pharmacology</i> , <b>2010</b> , 66, 755-64   | 3.5 | 24 |
| 96 | Preparation and cell growth inhibitory activity of [PtR(2)L(2)] (R=polyfluorophenyl, L(2)=diene, cyclohexane-1,2-diamine (chxn) or cis-(dimethyl sulfoxide)(2)) and the X-ray crystal structure of [Pt(C(6)F(5))(2)(cis-chxn)]. <i>Journal of Inorganic Biochemistry</i> , <b>2002</b> , 89, 293-301 | 4.2 | 24 |
| 95 | XAFS studies of anti-inflammatory dinuclear and mononuclear Zn(II) complexes of indomethacin. <i>Inorganic Chemistry</i> , <b>2003</b> , 42, 8557-66   | 5.1 | 24 |
| 94 | Rates of platination of -AG- and -GA- containing double-stranded oligonucleotides: effect of chloride concentration. <i>Journal of Inorganic Biochemistry</i> , <b>2000</b> , 79, 167-72   | 4.2 | 24 |
| 93 | Double Helical Dinuclear Copper(I) Complexes of Macrocyclic Bis(dithiadiimine) Ligands. <i>Angewandte Chemie International Edition in English</i> , <b>1995</b> , 34, 1883-1885  |     | 23 |
| 92 | Fluorescent sensing of monofunctional platinum species. <i>Chemical Communications</i> , <b>2015</b> , 51, 6312-4  | 5.8 | 22 |
| 91 | Highly Diastereoselective Conjugate Addition of Lithiated $\epsilon$ -Crotonolactone (But-2-en-4-olide) to Cyclic Enones To Give Syn-Adducts: Application to a Brefeldin Synthesis $\square$ <i>Journal of Organic Chemistry</i> , <b>1997</b> , 62, 4552-4553                                       | 4.2 | 22 |
| 90 | Structure and dynamics of a platinum(II) aminophosphine complex and its nucleobase adducts. <i>Dalton Transactions RSC</i> , <b>2001</b> , 362-372   |     | 22 |
| 89 | A novel class of copper(II)- and zinc(II)-bound non-steroidal anti-inflammatory drugs that inhibits acute inflammation in vivo. <i>Cell and Bioscience</i> , <b>2016</b> , 6, 9  | 9.8 | 21 |
| 88 | Fluorescent analogues of quinoline reveal amine ligand loss from cis and trans platinum(II) complexes in cancer cells. <i>Journal of Inorganic Biochemistry</i> , <b>2009</b> , 103, 1120-5  | 4.2 | 21 |
| 87 | Chelate-ring-opened adducts of [Pt(en)(Me-Mal-O,O?)] (en = ethane-1,2-diamine, Me-Mal = 2-methylmalonate) with methionine derivatives: relevance to the biological activity of platinum anticancer agents. <i>Journal of the Chemical Society Dalton Transactions</i> , <b>1997</b> , 469-478        |     | 21 |
| 86 | Physiological Targeting to Improve Anticancer Drug Selectivity. <i>Australian Journal of Chemistry</i> , <b>2008</b> , 61, 647   | 1.2 | 21 |
| 85 | The first examples of platinum amine hydroxamate complexes: structures and biological activity. <i>Dalton Transactions</i> , <b>2003</b> , 1596-1600   | 4.3 | 20 |
| 84 | The electron density in flavones I. Baicalein. <i>New Journal of Chemistry</i> , <b>2003</b> , 27, 1392-1398   | 3.6 | 20 |
| 83 | Dinuclear chromium(V) amino acid complexes from the reduction of chromium(VI) in the presence of amino acid ligands: XAFS characterization of a chromium(V) amino acid complex. <i>Inorganic Chemistry</i> , <b>2001</b> , 40, 5097-105  | 5.1 | 20 |
| 82 | Energy-Minimized Structures and Calculated and Experimental Isomer Distributions in the Hexaamminecobalt(III) system [Co(trap) <sub>2</sub> ] <sup>3+</sup> (trap = 1,2,3-propanetriamine). <i>Helvetica Chimica Acta</i> , <b>1988</b> , 71, 1875-1880  | 2   | 20 |
| 81 | Insights into bonding and hydrogen bond directionality in thioacetamide from the experimental charge distribution. <i>Perkin Transactions II RSC</i> , <b>2002</b> , 235-239   |     | 19 |
| 80 | Three new platinum(II) dipeptide complexes. <i>Journal of Inorganic Biochemistry</i> , <b>1999</b> , 73, 173-186   | 4.2 | 19 |

|    |   |     |    |
|----|---|-----|----|
| 79 | Combined NMR and Molecular Mechanics Study of the Isomers Formed in the Reaction of Dichloro(1,4-diazacycloheptane)platinum(II) with the Dinucleotide d(GpG). <i>Inorganic Chemistry</i> , <b>1996</b> , 35, 4663-4668  | 5.1 | 19 |
| 78 | Strain energy minimization study of the mechanism of, and the barrier to, conformational interconversion in five-membered diamine chelate rings. <i>Journal of Computational Chemistry</i> , <b>1987</b> , 8, 651-657   | 3.5 | 19 |
| 77 | Using XANES to Monitor the Oxidation State of Cobalt Complexes. <i>Australian Journal of Chemistry</i> , <b>2007</b> , 60, 180  | 1.2 | 18 |
| 76 | Electrochemistry, Protein Binding and Crystal Structures of Platinum(II) and Platinum(IV) Carboxylato Complexes. <i>Australian Journal of Chemistry</i> , <b>2002</b> , 55, 699   | 1.2 | 18 |
| 75 | Template Synthesis, Crystal Structure, and Spectroscopic Characterization of [N,N'-Bis(2-pyridylmethylene)-1,3-diamino-2-methyl-2-nitropropane] copper(II) Perchlorate. <i>Helvetica Chimica Acta</i> , <b>1985</b> , 68, 2332-2341   | 2   | 18 |
| 74 | The composition and end-group functionality of sterically stabilized nanoparticles enhances the effectiveness of co-administered cytotoxins. <i>Biomaterials Science</i> , <b>2013</b> , 1, 1260-1272   | 7.4 | 17 |
| 73 | Crystal Structures of Tris(hydroxamato) Complexes of Iron(III). <i>Australian Journal of Chemistry</i> , <b>2000</b> , 53, 879  | 1.2 | 17 |
| 72 | Structure, stability, and interconversion barriers of the rotamers of cis-[Pt(II)Cl(2)(quinoline)2] and cis-[Pt(II)Cl(2)(3-bromoquinoline)(quinoline)] from X-ray crystallography, NMR spectroscopy and molecular mechanics evidence. <i>Inorganic Chemistry</i> , <b>2001</b> , 40, 3048-54  | 5.1 | 17 |
| 71 | Increased targeting of adenine-rich sequences by (2-amino-2-methyl-3-butanone oxime)dichloroplatinum(II) and investigations into its low cytotoxicity. <i>Journal of Biological Inorganic Chemistry</i> , <b>2000</b> , 5, 675-81   | 3.7 | 16 |
| 70 | A fluorescent probe for investigating metabolic stability of active transplatin analogues. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 255, 2721-2724  | 8.5 | 15 |
| 69 | Platinum-oxazoline complexes as anti-cancer agents: syntheses, characterisation and initial biological studies. <i>MedChemComm</i> , <b>2011</b> , 2, 274   | 5   | 15 |
| 68 | Nuclear magnetic resonance analysis of indomethacin-induced gastric ulcers. <i>Chemical Research in Toxicology</i> , <b>2005</b> , 18, 123-8  | 4   | 15 |
| 67 | The preparation and characterisation of some aminesulfoxidedichloroplatinum(II) complexes. <i>Journal of the Chemical Society Dalton Transactions</i> , <b>1993</b> , 3705  |     | 15 |
| 66 | The reduction of cis-platinum(IV) complexes by ascorbate and in whole human blood models using H NMR and XANES spectroscopy. <i>Metallomics</i> , <b>2019</b> , 11, 686-695   | 4.5 | 14 |
| 65 | Synthesis, characterisation and in vitro cytotoxicity studies of a series of chiral platinum(II) complexes based on the 2-aminomethylpyrrolidine ligand: X-ray crystal structure of [PtCl2(R-dimepyrr)] (R-dimepyrr=N-dimethyl-2(R)-aminomethylpyrrolidine). <i>European Journal of Medicinal Chemistry</i> , <b>2009</b> , 44, 2807-14 | 6.8 | 13 |
| 64 | Binding of [Pt(1C3)(dien)](2+) to the duplex DNA oligonucleotide 5Pd(TGGCCA)-3P: the effect of an appended positive charge on the orientation and location of anthraquinone intercalation. <i>Dalton Transactions</i> , <b>2009</b> , 932-9   | 4.3 | 13 |
| 63 | Butenylnyl complexes of iron(II) containing the tripodal tetraphosphine ligand P(CH2CH2PMe2)3. <i>Journal of the Chemical Society Dalton Transactions</i> , <b>1999</b> , 2557-2562   |     | 13 |
| 62 | What Can Be Learnt from Computer-Generated Models of Interactions Between DNA and Pt(II) Based Anti-Cancer Drugs?. <i>Comments on Inorganic Chemistry</i> , <b>1992</b> , 14, 1-26  | 3.9 | 13 |



|    |   |     |    |
|----|---|-----|----|
| 61 | Effects of enzymatic activation on the distribution of fluorescently tagged MMP-2 cleavable peptides in cancer cells and spheroids. <i>Bioconjugate Chemistry</i> , <b>2012</b> , 23, 1110-8  | 6.3 | 12 |
| 60 | Iron(III) complexes of fluorescent hydroxamate ligands: preparation, properties, and cellular processing. <i>Dalton Transactions</i> , <b>2009</b> , 10787-98   | 4.3 | 12 |
| 59 | Immobilisierung von platinieren und iodierten DNA-Oligomeren an Kohlenstoff-Nanoröhren. <i>Angewandte Chemie</i> , <b>1997</b> , 109, 2291-2294   | 3.6 | 12 |
| 58 | Synthesis and some octahedral complexes of a chiral triaza macrocycle. <i>Journal of the Chemical Society Dalton Transactions</i> , <b>1999</b> , 1975-1980   |     | 12 |
| 57 | Chiral Tetraamines Based on (S)-2-(Aminomethyl)pyrrolidine: Template synthesis and properties of copper(II) complexes. <i>Helvetica Chimica Acta</i> , <b>1992</b> , 75, 145-152  | 2   | 12 |
| 56 | trans-Platinum(IV) pro-drugs that exhibit unusual resistance to reduction by endogenous reductants and blood serum but are rapidly activated inside cells: H NMR and XANES spectroscopy study. <i>Dalton Transactions</i> , <b>2020</b> , 49, 7722-7736   | 4.3 | 11 |
| 55 | Synthesis and exchange reactions of 5-alkyl-2-oxo-6-thioxo-1,2,3,6-hexahydropyrimidine-4-carboxylic acids. <i>Journal of Heterocyclic Chemistry</i> , <b>1997</b> , 34, 1355-1367   | 1.9 | 11 |
| 54 | Steric control of stereoselective interactions between the platinum(II) complex [PtCl <sub>2</sub> (1,4-diazacycloheptane)] and DNA: comparison with cis-[PtCl <sub>2</sub> (NH <sub>3</sub> ) <sub>2</sub> ] and [PtCl <sub>2</sub> (ethane-1,2-diamine)] using DNA binding and molecular modeling studies. <i>Journal of Biological Inorganic Chemistry</i> , <b>2001</b> , 6, 534-42 | 3.7 | 11 |
| 53 | The influence of the ethane-1,2-diamine ligand on the activity of a monofunctional platinum complex. <i>Journal of Inorganic Biochemistry</i> , <b>2017</b> , 177, 328-334  | 4.2 | 10 |
| 52 | The influence of the ancillary ligand on the potential of cobalt(III) complexes to act as chaperones for hydroxamic acid-based drugs. <i>Dalton Transactions</i> , <b>2017</b> , 46, 15897-15907  | 4.3 | 10 |
| 51 | Radiosynthesis and click conjugation of ethynyl-4-[( <sup>18</sup> F)fluorobenzene]—an improved [( <sup>18</sup> F)synthon for indirect radiolabeling. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , <b>2015</b> , 58, 473-8  | 1.9 | 10 |
| 50 | Enantioselectivity and stereoselectivity in the reactions of the enantiomers of the platinum complex [PtCl <sub>2</sub> (ahaz)] (ahaz=3(R)- or 3(S)-aminohexahydroazepine) with DNA. <i>Journal of Inorganic Biochemistry</i> , <b>2009</b> , 103, 168-73   | 4.2 | 10 |
| 49 | DNA adducts of the enantiomers of the Pt(II) complexes of the ahaz ligand (ahaz=3-aminohexahydroazepine) and recognition of these adducts by HMG domain proteins. <i>Biochemical and Biophysical Research Communications</i> , <b>2005</b> , 332, 1034-41   | 3.4 | 10 |
| 48 | DNA-binding and molecular mechanics modelling studies of the bulky chiral platinum(II) complex [PtCl <sub>2</sub> (mepyrr)] (mepyrr=N-methyl-2-aminomethylpyrrolidine). <i>Journal of Inorganic Biochemistry</i> , <b>2006</b> , 100, 1965-73   | 4.2 | 10 |
| 47 | The stereospecific synthesis of [Pt(dipyrido[3,2-a:2'3'-c](6,7,8,9-tetrahydro)phenazine[N,N'-di(2-picolyl)-2,5-dimethyl-2S,5S-diaminocyclohexane]puthenium and related isomers. <i>Dalton Transactions RSC</i> , <b>2002</b> , 4666   |     |    |
| 46 | The preparation, characterisation, and DNA adduct profile of 2-amino-2-methyl-3-butanoneoximedichloroplatinum(II), a platinum(II) complex designed to bind to GpA sequences of DNA. <i>Journal of Inorganic Biochemistry</i> , <b>2000</b> , 78, 55-62  | 4.2 | 10 |
| 45 | Doppelhelicale zweikernige Kupfer(I)-Komplexe mit makrocyclischen Bis(dithiadiimin)-Liganden. <i>Angewandte Chemie</i> , <b>1995</b> , 107, 2047-2050   | 3.6 | 10 |
| 44 | Copper and zinc complexes as antiinflammatory drugs. <i>Metal Ions in Biological Systems</i> , <b>2004</b> , 41, 253-77   |     | 10 |

|    |  |     |   |
|----|--|-----|---|
| 43 | Stabilization of Triam(m)inechloridoplatinum Complexes by Oxidation to PtIV. <i>Australian Journal of Chemistry</i> , <b>2011</b> , 64, 273  | 1.2 | 9 |
| 42 | Synthesis, spectroscopy, and theoretical studies of platinum(II) phosphate complexes. <i>Dalton Transactions RSC</i> , <b>2002</b> , 1898  |     | 9 |
| 41 | A ratiometric iron probe enables investigation of iron distribution within tumour spheroids. <i>Metallomics</i> , <b>2018</b> , 10, 553-556  | 4.5 | 8 |
| 40 | A Warburg effect targeting vector designed to increase the uptake of compounds by cancer cells demonstrates glucose and hypoxia dependent uptake. <i>PLoS ONE</i> , <b>2019</b> , 14, e0217712   | 3.7 | 8 |
| 39 | Identification by NMR spectroscopy of the two stereoisomers of the platinum complex [PtCl <sub>2</sub> (S-ahaz)] (S-ahaz = 3(S)-aminohexahydroazepine) bound to a DNA 14-mer oligonucleotide. NMR evidence of structural alteration of a platinated A x T-rich 14-mer DNA duplex. <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 3047-56 | 5.1 | 8 |
| 38 | Transporter and protease mediated delivery of platinum complexes for precision oncology. <i>Journal of Biological Inorganic Chemistry</i> , <b>2019</b> , 24, 457-466  | 3.7 | 7 |
| 37 | Platinum-Based Anticancer Agents <b>2014</b> , 9-45  |     | 6 |
| 36 | The preparation and in vivo activity of L- and D-O-methyl-methioninedichloroplatinum(II). The crystal structure of the L-enantiomer. <i>Journal of Inorganic Biochemistry</i> , <b>1994</b> , 55, 175-81   | 4.2 | 6 |
| 35 | The Dichloroplatinum(II) Complex of 5,5,7-Trimethyl-1,4-diazacycloheptane: Preparation, Crystal Structure and Binding to Nucleotides and DNA. <i>Australian Journal of Chemistry</i> , <b>1998</b> , 51, 977   | 1.2 | 6 |
| 34 | Intracellular trafficking as a determinant of AS-DACA cytotoxicity in rhabdomyosarcoma cells. <i>BMC Cell Biology</i> , <b>2011</b> , 12, 36   |     | 5 |
| 33 | Syntheses and structures of N-polyfluorophenyl- and N,N'-bis(polyfluorophenyl)ethane-1,2-diaminato(1- or 2-)platinum(II) complexes. <i>Journal of Fluorine Chemistry</i> , <b>2010</b> , 131, 1229-1236  | 2.1 | 5 |
| 32 | Isomer formation in the binding of [PtCl <sub>2</sub> (cis-cyclohexane-1,3-diamine)] to oligonucleotides and the X-ray crystal structure of [PtCl <sub>2</sub> (cis-cyclohexane-1,3-diamine)]dimethylformamide. <i>Dalton Transactions RSC</i> , <b>2001</b> , 2769-2774   |     | 5 |
| 31 | The impact of highly electron withdrawing carboxylato ligands on the stability and activity of platinum(IV) pro-drugs. <i>Inorganica Chimica Acta</i> , <b>2019</b> , 494, 84-90   | 2.7 | 4 |
| 30 | Stereospecificity and enantioselectivity in the binding of the platinum(II) complex [PtCl <sub>2</sub> (tmdz)] (tmdz = 5,5,7-trimethyl-1,4-diazacycloheptane) to dinucleotides and oligonucleotides. <i>Chemistry - A European Journal</i> , <b>2002</b> , 8, 5486-93  | 4.8 | 4 |
| 29 | Insights into Pt(II)-Hydroxamate Bonding Through the Crystal Structures of DMSO Complexes. <i>Australian Journal of Chemistry</i> , <b>2003</b> , 56, 45   | 1.2 | 3 |
| 28 | Modulating the Cellular Uptake of Fluorescently Tagged Substrates of Prostate-Specific Antigen before and after Enzymatic Activation. <i>Bioconjugate Chemistry</i> , <b>2019</b> , 30, 124-133  | 6.3 | 3 |
| 27 | Warburg Effect Targeting Co(III) Cytotoxin Chaperone Complexes. <i>Journal of Medicinal Chemistry</i> , <b>2021</b> , 64, 2678-2690  | 8.3 | 3 |
| 26 | Structural and anticancer properties of hydrogen bonded diphenyl phosphate adducts of Pt(IV) complexes: the importance of pKa matching. <i>Journal of Inorganic Biochemistry</i> , <b>2012</b> , 115, 220-5  | 4.2 | 2 |

|    |   |     |   |
|----|---|-----|---|
| 25 | Targeting Strategies for Metal-Based Therapeutics <b>2011</b> , 49-78   |     | 2 |
| 24 | Steric Determinants of Pt/DNA Interactions and Anticancer Activity. <i>Metal-Based Drugs</i> , <b>1998</b> , 5, 197-206   |     | 2 |
| 23 | The effect of charge on the uptake and resistance to reduction of platinum(IV) complexes in human serum and whole blood models. <i>Metallomics</i> , <b>2020</b> , 12, 1599-1615  | 4.5 | 2 |
| 22 | Analysis of warfarin enantiomers: Chromatographic separation of six stereoisomeric esters prepared from (1 <i>S</i> ,2 <i>R</i> ,4 <i>R</i> )-endo-1,4,5,6,7,7-hexachlorobicyclo[2.2.1]hept-5-ene-2- carboxylic acid. <i>Chirality</i> , <b>1994</b> , 6, 670-680 | 2.1 | 1 |
| 21 | Water-Soluble $\beta$ -Amino Acid Complexes of Molybdenum as Potential Antidotes for Cyanide Poisoning: Synthesis and Catalytic Studies of Threonine, Methionine, Serine, and Leucine Complexes. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 18190-18204       | 5.1 | 1 |
| 20 | Novel polyamide amidine anthraquinone platinum(II) complexes: cytotoxicity, cellular accumulation, and fluorescence distributions in 2D and 3D cell culture models. <i>Journal of Biological Inorganic Chemistry</i> , <b>2021</b> , 26, 217-233                  | 3.7 | 1 |
| 19 | Element 78 [Platinum]. <i>Australian Journal of Chemistry</i> , <b>2019</b> , 72, 649   | 1.2 |   |
| 18 | Appendix 1: Glossary 293-296  |     |   |
| 17 | Appendix 2: Fundamental Constants, Units, and Conversion Factors 297-298  |     |   |
| 16 | Appendix 3: Software and Force Fields 299-299   |     |   |
| 15 | Appendix 4: Books on Molecular Modeling and Reviews on Inorganic Molecular Modeling 301-304   |     |   |
| 14 | Electron Transfer 149-157   |     |   |
| 13 | Electronic Effects 159-170  |     |   |
| 12 | Bioinorganic Chemistry 171-181  |     |   |
| 11 | Organometallics 183-193   |     |   |
| 10 | Compounds with s-, p-, and f-Block Elements 195-201   |     |   |
| 9  | The Model, the Rules, and the Pitfalls 205-213  |     |   |
| 8  | Molecular Modeling Methods in Brief 9-18  |     |   |

- 7 Parameterization, Approximations and Limitations of Molecular Mechanics19-59
- 6 Computation61-68
- 5 The Multiple Minima Problem69-73
- 4 Structural Aspects79-88
- 3 Stereoselectivities89-109
- 2 Metal Ion Selectivity111-126
- 1 Platinum Anticancer Drugs, Chemical Biology of1