

# Geoffrey Davies

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11820983/publications.pdf>

Version: 2024-02-01

82  
papers

2,165  
citations

218381

26  
h-index

243296

44  
g-index

82  
all docs

82  
docs citations

82  
times ranked

1687  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Some aspects of the chemistry of manganese(III) in aqueous solution. <i>Coordination Chemistry Reviews</i> , 1969, 4, 199-224.   | 9.5 | 211       |
| 2  | Tight metal binding by humic acids and its role in biomineralization. <i>Journal of the Chemical Society Dalton Transactions</i> , 1997, , 4047-4060.  | 1.1 | 148       |
| 3  | Electrodeposition of Metal Alloy and Mixed Oxide Films Using a Single Precursor Tetranuclear Copper-Nickel Complex. <i>Journal of the Electrochemical Society</i> , 1995, 142, 3357-3365.  | 1.3 | 127       |
| 4  | Spectroscopic characterization of humic acid fractions isolated from soil using different extraction procedures. <i>Geoderma</i> , 2006, 133, 204-216.   | 2.3 | 86        |
| 5  | Generation of Hydroxyl Radicals from Metal-Loaded Humic Acids. <i>Environmental Science &amp; Technology</i> , 1999, 33, 1814-1818.  | 4.6 | 77        |
| 6  | Kinetics and stoichiometry of the reaction between manganese(III) and hydrogen peroxide in acid perchlorate solution. <i>Inorganic Chemistry</i> , 1968, 7, 146-154.   | 1.9 | 68        |
| 7  | Transmetalation reactions of tetranuclear copper(II) complexes. 2. Stoichiometry and products of reaction of [(DENC)CuCl]4O2, [(DENC)CuCl]4(CO3)2, [(DENC)CuCl]4Cl4, and (DENC)4Cu4Cl6O (DENC =) <i>Journal of the American Chemical Society</i> , 1984, 106, 4606-4605.   | 6.6 | 63        |
| 8  | inhibition of copper-catalyzed phenolic oxidative coupling by dioxygen through transmetalation. <i>Journal of the American Chemical Society</i> , 1984, 106, 4606-4605.  |     |           |
| 8  | Stoichiometry and kinetics of the oxidation of halo(pyridine)copper(I) complexes by dioxygen in aprotic solvents. Effects of copper(I) reactant molecularity on the rate law and evidence for ligand-dependent product structures. <i>Inorganic Chemistry</i> , 1983, 22, 1257-1266.   | 1.9 | 59        |
| 9  | Synthesis, molecular structures, properties and reactions of halo- and carbonyl(amine)copper(I) complexes. <i>Polyhedron</i> , 1990, 9, 2319-2351.   | 1.0 | 56        |
| 10 | Synthesis, physical properties and structural characterization of .mu.-carbonato-dicopper(II) complexes. 2. Products of oxidation of Cu(I) by dioxygen in aprotic media containing carbon dioxide and alkylated diamine ligands and the crystal structure of paramagnetic (Et2NCH2CH2NEt2)2Cu2Cl2(asym.mu.-CO3). <i>Inorganic Chemistry</i> , 1980, 19, 201-208. | 1.9 | 55        |
| 11 | Structural modeling in humic acids. <i>Materials Science and Engineering C</i> , 1996, 4, 175-179.   | 3.8 | 53        |
| 12 | Synthesis, structure and properties of the tetranuclear complexes [(DENC)CuX]4 (DENC =) <i>Journal of the American Chemical Society</i> , 1982, 104, 307-307.  | 1.9 | 49        |
| 12 | dioxygen in aprotic solvents. <i>Inorganic Chemistry</i> , 1982, 21, 995-1001.   |     |           |
| 13 | Transmetalation of tetranuclear copper complexes with tin transmetalators. Molecular structure of cis-dichloro-bis(trans-S-methyl isopropylidenehydrazinecarbodithioato)tin(IV) and consideration of transmetalation mechanisms. <i>Inorganica Chimica Acta</i> , 1992, 193, 43-56.  | 1.2 | 43        |
| 14 | Humic Acids: Marvelous Products of Soil Chemistry. <i>Journal of Chemical Education</i> , 2001, 78, 1609.  | 1.1 | 43        |
| 15 | Metal binding by humic acids isolated from water hyacinth plants ( <i>Eichhornia crassipes</i> [Mart.] <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 307 T</i> )  | 3.7 | 43        |
| 16 | Aspects of the chemistry of cobalt(III) in aqueous perchlorate solution. <i>Coordination Chemistry Reviews</i> , 1970, 5, 349-378.   | 9.5 | 42        |
| 17 | Suitability of Different 13C Solid-state NMR Techniques in the Characterization of Humic Acids. <i>International Journal of Environmental Analytical Chemistry</i> , 2002, 82, 183-196.  | 1.8 | 39        |
| 18 | Isolation of humic acid from the brown alga <i>Pilayella littoralis</i> . <i>Journal of Applied Phycology</i> , 1994, 6, 459-468.  | 1.5 | 38        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Stoichiometry and kinetics of oxidation of dimeric bis( $\mu$ -halo)-bis-(diamine)copper(I) complexes $L_2Cu_2X_2$ by dioxygen in aprotic solvents. <i>Inorganic Chemistry</i> , 1985, 24, 3387-3390.   | 1.9 | 36        |
| 20 | Stoichiometry and kinetics of low-temperature oxidation of di- $\mu$ -chlorobis(N,N,N',N'-tetraethylethylenediamine)dicopper by dioxygen in methylene chloride and properties of the peroxocopper products. <i>Inorganic Chemistry</i> , 1987, 26, 3266-3273. | 1.9 | 36        |
| 21 | Transmetallation reactions of tetranuclear copper(II) complexes. I. Crystal and molecular structures  |     |           |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Properties and reactions of tetranuclear copper(I) complexes [LCuX] <sub>4</sub> (L=N,N-dimethylaminomethylferrocene; X=Cl and Br). Crystal and molecular structure of (1/4-O)L <sub>4</sub> Cu <sub>4</sub> Cl <sub>6</sub> . <i>Inorganica Chimica Acta</i> , 1992, 194, 139-149.           | 1.2 | 19        |
| 38 | Homogeneous Oxidative Coupling Catalysts. <i>Advances in Chemistry Series</i> , 1979, , 178-194.  | 0.6 | 18        |
| 39 | A spectrophotometric study of the reactions of the phenolic oxidative 1 coupling initiator py <sub>4</sub> Cu <sub>4</sub> Cl <sub>4</sub> O <sub>2</sub> and of py <sub>4</sub> Cu <sub>4</sub> Cl <sub>6</sub> O with pyridine. <i>Inorganica Chimica Acta</i> , 1983, 71, 95-99.           | 1.2 | 18        |
| 40 | Optimized conditions for determination of total soil organic matter in diverse samples by mass loss on ignition. <i>Journal of Plant Nutrition and Soil Science</i> , 2014, 177, 914-919.   | 1.1 | 18        |
| 41 | Transmetalation of tetranuclear copper complexes. 4. Structural implications of the kinetics of direct transmetalation of tetranuclear copper(II) complexes by Ni(NS) <sub>2</sub> reagents. <i>Inorganic Chemistry</i> , 1986, 25, 1925-1928.  | 1.9 | 17        |
| 42 | Transmetalation of tetranuclear copper complexes. 6. Transmetalation of copper dioxo L <sub>4</sub> Cu <sub>4</sub> O <sub>2</sub> complexes (L = 6-methyl-2-hydroxypyridinate) by M(NS) <sub>2</sub> reagents. <i>Inorganic Chemistry</i> , 1986, 25, 1935-1940.                             | 1.9 | 16        |
| 43 | Crystal and molecular structure of racemic fac-tris-(S-methylisopropylidene-hydrazinecarbodithioato)cobalt(III), Co(NS) <sub>3</sub> , and the kinetics of its isomerization in aprotic solvents. <i>Inorganica Chimica Acta</i> , 1986, 119, 121-126.  | 1.2 | 16        |
| 44 | The kinetics of primary events in the reactions of L <sub>2</sub> Cu <sub>2</sub> X <sub>2</sub> complexes (L is an N,N,N',N'-tetraalkyldiamine;) <i>Tj ETQq0 0 0 rgBT /Over</i>  | 1.2 | 16        |
| 45 | Unusually stable peroxocopper complexes. Stoichiometry, products and kinetics of oxidation of the dimeric copper(I) complex [LCuBr] <sub>2</sub> (L=N,N,N',N'-diethylethylenediamine) by dioxygen in methylene chloride from 5 to 30 °C. <i>Inorganica Chimica Acta</i> , 1994, 217, 109-119. | 1.2 | 16        |
| 46 | Stoichiometry and products of transmetalation of dimeric copper(I) complexes L <sub>2</sub> Cu <sub>2</sub> X <sub>2</sub> (L is an) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3</i><br><i>Chimica Acta</i> , 1988, 149, 21-30.   | 1.2 | 15        |
| 47 | Transmetalation of tetranuclear copper complexes. 9. Stoichiometry and kinetics of transmetalation of (μ <sub>4</sub> -O)[NCu] <sub>4</sub> X <sub>6</sub> complexes by M(NS) <sub>2</sub> reagents in aprotic solvents. <i>Inorganic Chemistry</i> , 1986, 25, 3899-3903.                    | 1.9 | 14        |
| 48 | Products and kinetics of the direct, specific transmetalation of (μ <sub>4</sub> -O) <sub>4</sub> Cu(Ni(H <sub>2</sub> O)) <sub>3</sub> Cl <sub>6</sub> (N =) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50</i><br>and product formation rates. <i>Inorganic Chemistry</i> , 1990, 29, 1198-1205.   | 1.9 | 14        |
| 49 | A phenomenological model for redox reactions in solution application to aquocobalt(III) systems. <i>Coordination Chemistry Reviews</i> , 1974, 14, 269-285.   | 9.5 | 13        |
| 50 | The mechanistic assignment of terms in empirical rate laws for complexation and redox reactions of metal ions in aqueous solution: acid dependences in perchlorate media. <i>Coordination Chemistry Reviews</i> , 1974, 14, 287-303.  | 9.5 | 12        |
| 51 | Transmetalation of 1/4-carbonatodicopper(II) complexes with M(NS) <sub>2</sub> reagents. <i>Inorganica Chimica Acta</i> , 1985, 104, 131-135.   | 1.2 | 12        |
| 52 | Cu-Ni alloy formation by reduction in hydrogen of a polyheterometallic complex. <i>Journal of Materials Science Letters</i> , 1988, 7, 833-835.   | 0.5 | 12        |
| 53 | Transmetalation of tetranuclear copper(I) complexes with an Fe(NS) <sub>3</sub> reagent. <i>Inorganica Chimica Acta</i> , 1990, 168, 65-76.   | 1.2 | 12        |
| 54 | Homogeneous oxidative coupling catalysts. Stoichiometry and kinetics of the reactions of two structurally distinct (μ <sub>4</sub> -carbonato)-dicopper(II) oxidative coupling initiators with 2,4,6-trichlorophenol in methylene chloride. <i>Inorganic Chemistry</i> , 1981, 20, 3757-3763. | 1.9 | 11        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 55 | Stoichiometry, products and kinetics of transmetalation of dimeric copper(II) complexes L <sub>2</sub> Cu <sub>2</sub> X <sub>2</sub> Y (L) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 382 Td (3,4,5,6-tetra-<br>Acta, 1988, 149, 45-56.  | 1.2 | 10        |
| 56 | Rate law variations in the specific monotransmetalation of (μ <sub>4</sub> -O)(N <sub>2</sub> py) <sub>4</sub> Cu <sub>4</sub> -xM <sub>x</sub> Y <sub>6</sub> complexes with Zn(NS) <sub>2</sub> in nitrobenzene. Inorganic Chemistry, 1990, 29, 1206-1210.   | 1.9 | 10        |
| 57 | Single-phase Cu <sub>0.50</sub> Ni <sub>0.50</sub> alloy preparation by thermolysis of a simple heteropolymetallic precursor. Materials Letters, 1990, 9, 231-234.   | 1.3 | 10        |
| 58 | Progressive transmetalation of tetranuclear dioxocopper(II) complexes with cobalt reagents. Inorganic Chemistry, 1988, 27, 1872-1879.  | 1.9 | 8         |
| 59 | Supercritical fluid CO <sub>2</sub> extraction accelerates isolation of humic acid from live <i>Pilayella littoralis</i> (Phaeophyta). Journal of Applied Phycology, 1996, 8, 545-551.   | 1.5 | 8         |
| 60 | Environmental insights from Langmuir adsorption site capacities. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 381, 37-40.   | 2.3 | 8         |
| 61 | Correlation of activation parameters and the case for substitution-controlled reduction of Co(OH) <sub>2</sub> and Co(NH <sub>3</sub> ) <sub>2</sub> (OH) <sub>2</sub> . Implications for electrocatalysis by aquacobalt(III) and other strongly oxidizing metal species. Inorganica Chimica Acta, 1989, 160, 83-86.   | 1.2 | 7         |
| 62 | Stoichiometry, products and kinetics of monotransmetalation and complexation of dimeric complexes [N <sub>2</sub> CuCl <sub>2</sub> ] <sub>2</sub> and [N <sub>2</sub> NiCl <sub>2</sub> ] <sub>2</sub> (N is N,N-diethylnicotinamide) with M(NS) <sub>2</sub> reagents in nitrobenzene. Inorganica Chimica Acta, 1990, 173, 163-173.  | 1.2 | 6         |
| 63 | Products and kinetics of the reactions of bis-(acetylacetonato)copper(II) with Ni(NS) <sub>2</sub> and Cu(NS) <sub>2</sub> reagents in methylene chloride. Inorganica Chimica Acta, 1990, 177, 167-178.  | 1.2 | 6         |
| 64 | Influence of catecholate bridges on the transmetalation of tetranuclear copper(II) complexes [NCuCl] <sub>4</sub> Y <sub>2</sub> and N <sub>4</sub> Cu <sub>4</sub> (OH) <sub>2</sub> Cl <sub>4</sub> Y <sub>2</sub> ·3H <sub>2</sub> O (N = N,N-diethylnicotinamide; Y =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 Td (3,4,5,6-tetra-<br>methylene chloride. Inorganica Chimica Acta, 1991, 182, 213-220. | 1.2 | 6         |
| 65 | Cooperativity in metal exchange reactions of bis(acetylacetonato)copper(II) with Co(NS) <sub>2</sub> and Zn(NS) <sub>2</sub> reagents in methylene chloride. Inorganica Chimica Acta, 1991, 179, 245-254.  | 1.2 | 5         |
| 66 | Effects of transmetalation on the mechanisms of copper-catalyzed phenolic oxidative coupling reactions. Inorganica Chimica Acta, 1992, 192, 31-42.   | 1.2 | 5         |
| 67 | Title is missing!. Transition Metal Chemistry, 1998, 23, 795-800.  | 0.7 | 5         |
| 68 | Mixed Metal Oxide Synthesis by Thermolyses of Simple Heteropolymetallic Precursors in Oxygen. Materials Research Society Symposia Proceedings, 1991, 249, 87.  | 0.1 | 4         |
| 69 | Molecular catalyst design. Synthesis, characterization and properties of zeolite NaY catalysts made with a tetranuclear copper(II) complex. Catalysis Today, 1997, 33, 313-322.  | 2.2 | 4         |
| 70 | Measuring the Total and Sequestered Organic Matter Contents of Grassland and Forest Soil Profiles in the National Ecological Observatory Network Initiative. Soil Horizons, 2015, 56, 1-11.  | 0.3 | 4         |
| 71 | Protonation of tetranuclear oxo(chloro)pyridinecopper(II) complexes by HBF <sub>4</sub> in nitrobenzene. Inorganica Chimica Acta, 1992, 195, 35-43.  | 1.2 | 3         |
| 72 | Experiential, Cooperative, and Study Abroad Education. Journal of Chemical Education, 1996, 73, 438.   | 1.1 | 2         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 73 | Title is missing!. Journal of Applied Phycology, 1997, 9, 481-488.   | 1.5 | 2         |
| 74 | Kinetics of Formation and Dissociation of Aquocobalt(III) Complexes with Some Carboxylic Acids in Acid Perchlorate Solution. Journal of Physical Chemistry B, 2007, 111, 6955-6961.  | 1.2 | 2         |
| 75 | Soil Color and US Northeast Aquods. Soil Science Society of America Journal, 2016, 80, 965-972.  | 1.2 | 2         |
| 76 | Treatment of Dehydrated Na-Y Zeolite with the Heteropolymetallic Products of Transmetalation Reactions. , 1993, , 121-126.   |     | 2         |
| 77 | PREVENTION OF GUM FORMATION AND VISCOSITY INCREASES IN COAL-DERIVED DISTILLATE FUELS. Petroleum Science and Technology, 1986, 4, 327-343.  | 0.2 | 1         |
| 78 | Transmetalation of targets $(\frac{1}{4}-Y)N_4Cu_2ICu_2ICl_4$ and $(\frac{1}{4}-Y, \frac{1}{4}-O)N_4Cu_4Cl_4$ (Y=3,4,5,6-tetrachlorocatechol) with M(NS) <sub>2</sub> reagents. Inorganica Chimica Acta, 1994, 217, 85-92. | 1.2 | 1         |
| 79 | CHARACTERISTICS OF SEQUENTIAL SOLVENT PRE-EXTRACTION IN THE ISOLATION OF HUMIC ACID FROM THE ALGA PILAYELLA LIT TOR A LIS. Chemical Engineering Communications, 1999, 172, 41-64.  | 1.5 | 1         |
| 80 | MINIMIZATION OF THE RATE OF AMBIENT DIOXYGEN CONSUMPTION BY A COAL-DERIVED MIDDLE DISTILLATE. Petroleum Science and Technology, 1986, 4, 575-591.  | 0.2 | 0         |
| 81 | Synthesis of S -methylisoproylidenehydrazinecarbodithioate complexes of aluminim. Heteroatom Chemistry, 1990, 1, 291-294.  | 0.4 | 0         |
| 82 | National Soil Project Underway at Northeastern University " Assistance Requested. Soil Horizons, 2011, 52, 61.   | 0.3 | 0         |