# Timothy A Jackson

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 72 papers | 2,599 citations | 186265 28 h-index | 197818 49 g-index |
| 74 all docs | 74 docs citations | 74 times ranked | 1990 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Differences in chemoselectivity in olefin oxidation by a series of non-porphyrin manganese(<scp>iv</scp>)-oxo complexes. Dalton Transactions, 2022, 51, 5938-5949. | 3.3 | 4 |
| 2 | Câ€"H Bond Activation by a Mononuclear Nickel(IV)-Nitrate Complex. Journal of the American Chemical Society, 2022, 144, 12072-12080. | 13.7 | 9 |
| 3 | Evidence for the Chemical Mechanism of RibB (3,4-Dihydroxy-2-butanone 4-phosphate Synthase) of Riboflavin Biosynthesis. Journal of the American Chemical Society, 2022, 144, 12769-12780. | 13.7 | 4 |
| 4 | Superoxide Processing. , 2021, , 541-568. | | 0 |
| 5 | Mechanistic insight into oxygen atom transfer reactions by mononuclear manganese(<scp>iv</scp>)â€"oxo adducts. Dalton Transactions, 2021, 50, 3577-3585. | 3.3 | 10 |
| 6 | Characterization and chemical reactivity of room-temperature-stable MnIIIâ€"alkylperoxo complexes. Chemical Science, 2021, 12, 12564-12575. | 7.4 | 5 |
| 7 | Highly Selective Isobutane Hydroxylation by Ozone in a Pressure-Tuned Biphasic Gasâ€"Liquid Process. ACS Sustainable Chemistry and Engineering, 2021, 9, 5506-5512. | 6.7 | 2 |
| 8 | Probing the Mechanism for 2,4â€²-Dihydroxyacetophenone Dioxygenase Using Biomimetic Iron Complexes. Inorganic Chemistry, 2021, 60, 7168-7179. | 4.0 | 2 |
| 9 | Controlling the Reactivity of a Metal-Hydroxo Adduct with a Hydrogen Bond. Journal of the American Chemical Society, 2021, 143, 15159-15175. | 13.7 | 9 |
| 10 | Electronic Structure and Magnetic Properties of a Low-Spin CrII Complex: trans-[CrCl2(dmpe)2] (dmpe) Tj ETQq0 0 0 rgBT /Overlock 10 | 4.0 | 2 |
| 11 | Mimicking Elementary Reactions of Manganese Lipoxygenase Using Mn-hydroxo and Mn-alkylperoxo Complexes. Molecules, 2021, 26, 7151. | 3.8 | 0 |
| 12 | Selective ozone activation of phenanthrene in liquid CO<sub>2</sub>. RSC Advances, 2021, 12, 626-630. | 3.6 | 1 |
| 13 | Structural Characterization of a Series of N5â€Ligated Mn IV â€Oxo Species. Chemistry - A European Journal, 2020, 26, 900-912. | 3.3 | 12 |
| 14 | Correction: Near-infrared <sup>2</sup>E<sub>g</sub> â†’ <sup>4</sup>A<sub>2g</sub> and visible LMCT luminescence from a molecular <i>bis</i>-(tris(carbene)borate) manganese(IV) complex. Canadian Journal of Chemistry, 2020, 98, 250-250. | 1.1 | 4 |
| 15 | Concerted protonâ€"electron transfer reactions of manganeseâ€"hydroxo and manganeseâ€"oxo complexes. Chemical Communications, 2020, 56, 9238-9255. | 4.1 | 24 |
| 16 | Experimental and computational investigations of Câ€"H activation of cyclohexane by ozone in liquid CO2. Reaction Chemistry and Engineering, 2020, 5, 793-802. | 3.7 | 7 |
| 17 | Crystal Structure and Câ€"H Bond-Cleaving Reactivity of a Mononuclear Co<sup>IV</sup>â€"Dinitrate Complex. Journal of the American Chemical Society, 2020, 142, 13435-13441. | 13.7 | 15 |
| 18 | Effect of Lewis Acids on the Structure and Reactivity of a Mononuclear Hydroxomanganese(III) Complex. Inorganic Chemistry, 2020, 59, 2689-2700. | 4.0 | 22 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Electronic Structure and Magnetic Properties of a Titanium(II) Coordination Complex. Inorganic Chemistry, 2020, 59, 6187-6201. | 4.0 | 7 |
| 20 | Steric control of dioxygen activation pathways for MnII complexes supported by pentadentate, amide-containing ligands. Dalton Transactions, 2019, 48, 13034-13045. | 3.3 | 10 |
| 21 | Experimental and Multireference ab Initio Investigations of Hydrogen-Atom-Transfer Reactivity of a Mononuclear Mn<sup>IV</sup>-oxo Complex. Inorganic Chemistry, 2019, 58, 13902-13916. | 4.0 | 23 |
| 22 | MnIV-Oxo complex of a bis(benzimidazolyl)-containing N5 ligand reveals different reactivity trends for MnIV-oxo than FeIV-oxo species. Dalton Transactions, 2019, 48, 5007-5021. | 3.3 | 19 |
| 23 | Structure and Reactivity of (Î¼-Oxo)dimanganese(III,III) and Mononuclear Hydroxomanganese(III) Adducts Supported by Derivatives of an Amide-Containing Pentadentate Ligand. Inorganic Chemistry, 2019, 58, 622-636. | 4.0 | 16 |
| 24 | Spectroscopic and Structural Characterization of Mn(III)-Alkylperoxo Complexes Supported by Pentadentate Amide-Containing Ligands. Inorganic Chemistry, 2018, 57, 2489-2502. | 4.0 | 17 |
| 25 | Ligand Influence on Structural Properties and Reactivity of Bis(Î¼â€oxo)dimanganese(III,IV) Species and Comparison of Reactivity with Terminal Mn<sup>IV</sup>â€oxo Complexes. ChemistrySelect, 2018, 3, 13507-13516. | 1.5 | 6 |
| 26 | MnIII-Peroxo adduct supported by a new tetradentate ligand shows acid-sensitive aldehyde deformylation reactivity. Dalton Transactions, 2018, 47, 13442-13458. | 3.3 | 8 |
| 27 | Relationship between Hydrogen-Atom Transfer Driving Force and Reaction Rates for an Oxomanganese(IV) Adduct. Inorganic Chemistry, 2018, 57, 8253-8263. | 4.0 | 19 |
| 28 | NMR Studies of a MnIII-hydroxo Adduct Reveal an Equilibrium between MnIII-hydroxo and Î¼-Oxodimanganese(III,III) Species. Inorganic Chemistry, 2018, 57, 7825-7837. | 4.0 | 19 |
| 29 | Near-infrared <sup>2</sup>E<sub>g</sub> â†' <sup>4</sup>A<sub>2g</sub> and visible LMCT luminescence from a molecular <i>bis</i>-(tris(carbene)borate) manganese(IV) complex. Canadian Journal of Chemistry, 2017, 95, 547-552. | 1.1 | 52 |
| 30 | X-ray Emission Spectroscopy of Biomimetic Mn Coordination Complexes. Journal of Physical Chemistry Letters, 2017, 8, 2584-2589. | 4.6 | 31 |
| 31 | Equatorial Ligand Perturbations Influence the Reactivity of Manganese(IV)â€Oxo Complexes. Angewandte Chemie - International Edition, 2017, 56, 4178-4182. | 13.8 | 47 |
| 32 | Equatorial Ligand Perturbations Influence the Reactivity of Manganese(IV)â€Oxo Complexes. Angewandte Chemie, 2017, 129, 4242-4246. | 2.0 | 7 |
| 33 | Manganeseâ€"Oxygen Intermediates in Oâ€"O Bond Activation and Hydrogen-Atom Transfer Reactions. Accounts of Chemical Research, 2017, 50, 2706-2717. | 15.6 | 57 |
| 34 | Mn K-edge X-ray absorption studies of mononuclear Mn(III)â€"hydroxo complexes. Journal of Biological Inorganic Chemistry, 2017, 22, 1281-1293. | 2.6 | 11 |
| 35 | Pyrazinetetracarboxamide: A Duplex Ligand for Palladium(II). Inorganic Chemistry, 2016, 55, 5098-5100. | 4.0 | 10 |
| 36 | Steric and Electronic Influence on Proton-Coupled Electron-Transfer Reactivity of a Mononuclear Mn(III)-Hydroxo Complex. Inorganic Chemistry, 2016, 55, 8110-8120. | 4.0 | 34 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Spectroscopic and Computational Investigation of Lowâ€Spin MnIII Bis(scorpionate) Complexes. European Journal of Inorganic Chemistry, 2016, 2016, 2413-2423. | 2.0 | 13 |
| 38 | Spectroscopic and Computational Investigations of a Mononuclear Manganese(IV)-Oxo Complex Reveal Electronic Structure Contributions to Reactivity. Journal of the American Chemical Society, 2016, 138, 15413-15424. | 13.7 | 43 |
| 39 | X-Band Electron Paramagnetic Resonance Comparison of Mononuclear Mn<sup>IV</sup>-oxo and Mn<sup>IV</sup>-hydroxo Complexes and Quantum Chemical Investigation of Mn<sup>IV</sup> Zero-Field Splitting. Inorganic Chemistry, 2016, 55, 3272-3282. | 4.0 | 27 |
| 40 | Formation, Characterization, and Oâ€“O Bond Activation of a Peroxomanganese(III) Complex Supported by a Cross-Clamped Cyclam Ligand. Inorganic Chemistry, 2016, 55, 2055-2069. | 4.0 | 27 |
| 41 | Oâ€“H bond oxidation by a monomeric Mn<sup>III</sup>â€“OMe complex. Dalton Transactions, 2015, 44, 3295-3306. | 3.3 | 22 |
| 42 | Electronic Structure and Reactivity of a Well-Defined Mononuclear Complex of Ti(II). Inorganic Chemistry, 2015, 54, 10380-10397. | 4.0 | 34 |
| 43 | Peroxomanganese complexes as an aid to understanding redox-active manganese enzymes. Journal of Biological Inorganic Chemistry, 2014, 19, 1-15. | 2.6 | 39 |
| 44 | Geometric and electronic structure of a peroxomanganese(iii) complex supported by a scorpionate ligand. Dalton Transactions, 2014, 43, 17949-17963. | 3.3 | 21 |
| 45 | Electrochemical formation and reactivity of a manganese peroxo complex: acid driven H2O2 generation vs. Oâ€“O bond cleavage. Chemical Science, 2014, 5, 2304. | 7.4 | 27 |
| 46 | Saturation Kinetics in Phenolic Oâ€“H Bond Oxidation by a Mononuclear Mn(III)â€“OH Complex Derived from Dioxygen. Inorganic Chemistry, 2014, 53, 7622-7634. | 4.0 | 76 |
| 47 | Mn K-Edge X-ray Absorption Studies of Oxo- and Hydroxo-manganese(IV) Complexes: Experimental and Theoretical Insights into Pre-Edge Properties. Inorganic Chemistry, 2014, 53, 6179-6194. | 4.0 | 54 |
| 48 | Geometric and Electronic Structures of Manganese-Substituted Iron Superoxide Dismutase. Inorganic Chemistry, 2013, 52, 3356-3367. | 4.0 | 19 |
| 49 | Reaction landscape of a pentadentate N5-ligated MnII complex with O2Ë™âˆ’ and H2O2 includes conversion of a peroxomanganese(iii) adduct to a bis(Î¼-oxo)dimanganese(iii,iv) species. Dalton Transactions, 2013, 42, 13014. | 3.3 | 40 |
| 50 | Electrochemical formation of MnIII-peroxo complexes supported by pentadentate amino pyridine and imidazole ligands. Chemical Communications, 2013, 49, 5696. | 4.1 | 16 |
| 51 | Isolation and characterization of a peroxo manganese (III) dioxygen reaction intermediate using cryogenic ion vibrational predissociation spectroscopy. International Journal of Mass Spectrometry, 2013, 354-355, 33-38. | 1.5 | 15 |
| 52 | Spectroscopic properties and reactivity of a mononuclear oxomanganese(iv) complex. Chemical Communications, 2013, 49, 5378. | 4.1 | 78 |
| 53 | Low-Spin Hexacoordinate Mn(III): Synthesis and Spectroscopic Investigation of Homoleptic Tris(pyrazolyl)borate and Tris(carbene)borate Complexes. Inorganic Chemistry, 2013, 52, 144-159. | 4.0 | 55 |
| 54 | Vanadocene <i>de Novo</i>: Spectroscopic and Computational Analysis of Bis(Î·<sup>5</sup>-cyclopentadienyl)vanadium(II). Organometallics, 2012, 31, 8265-8274. | 2.3 | 25 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Controlling the Chiral Inversion Reaction of the Metallopeptide Ni-Asparagine-Cysteine-Cysteine with Dioxygen. Inorganic Chemistry, 2012, 51, 10055-10063. | 4.0 | 12 |
| 56 | Steric and Electronic Influences on the Structures of Peroxomanganese(III) Complexes Supported by Tetradentate Ligands. European Journal of Inorganic Chemistry, 2012, 2012, 1598-1608. | 2.0 | 23 |
| 57 | Nucleophilic reactivity of a series of peroxomanganese(iii) complexes supported by tetradentate aminopyridyl ligands. Dalton Transactions, 2011, 40, 1707. | 3.3 | 47 |
| 58 | MAPping the Chiral Inversion and Structural Transformation of a Metal-Tripeptide Complex Having Ni-Superoxide Dismutase Activity. Inorganic Chemistry, 2011, 50, 2479-2487. | 4.0 | 28 |
| 59 | Geometric and Electronic Structures of Peroxomanganese(III) Complexes Supported by Pentadentate Amino-Pyridine and -Imidazole Ligands. Inorganic Chemistry, 2011, 50, 10190-10203. | 4.0 | 43 |
| 60 | Distinct Reactivity Differences of Metal Oxo and Its Corresponding Hydroxo Moieties in Oxidations: Implications from a Manganese(IV) Complex Having Dihydroxide Ligand. Angewandte Chemie - International Edition, 2011, 50, 7321-7324. | 13.8 | 64 |
| 61 | Novel Tripeptide Model of Nickel Superoxide Dismutase. Inorganic Chemistry, 2010, 49, 362-364. | 4.0 | 35 |
| 62 | Oxo- and Hydroxomanganese(IV) Adducts: A Comparative Spectroscopic and Computational Study. Inorganic Chemistry, 2010, 49, 7530-7535. | 4.0 | 43 |
| 63 | A Series of Peroxomanganese(III) Complexes Supported by Tetradentate Aminopyridyl Ligands: Detailed Spectroscopic and Computational Studies. Journal of the American Chemical Society, 2010, 132, 2821-2831. | 13.7 | 64 |
| 64 | Axial Ligand Effects on the Geometric and Electronic Structures of Nonheme Oxoiron(IV) Complexes. Journal of the American Chemical Society, 2008, 130, 12394-12407. | 13.7 | 177 |
| 65 | Axial ligand tuning of a nonheme iron(IV)â€“oxo unit for hydrogen atom abstraction. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 19181-19186. | 7.1 | 376 |
| 66 | Probing the Geometric and Electronic Structures of the Low-Temperature Azide Adduct and the Product-Inhibited Form of Oxidized Manganese Superoxide Dismutase. Biochemistry, 2005, 44, 1504-1520. | 2.5 | 57 |
| 67 | Axial Ligand Substituted Nonheme FeIVO Complexes:â€‰ Observation of Near-UV LMCT Bands and FeO Raman Vibrations. Journal of the American Chemical Society, 2005, 127, 12494-12495. | 13.7 | 149 |
| 68 | Combined Spectroscopic/Computational Studies on Fe- and Mn-Dependent Superoxide Dismutases:â€‰ Insights into Second-Sphere Tuning of Active Site Properties. Accounts of Chemical Research, 2004, 37, 461-470. | 15.6 | 105 |
| 69 | Spectroscopic and Computational Studies of the Azide-Adduct of Manganese Superoxide Dismutase:Â Definitive Assignment of the Ligand Responsible for the Low-Temperature Thermochromism. Journal of the American Chemical Society, 2004, 126, 12477-12491. | 13.7 | 60 |
| 70 | Spectroscopic and Computational Study of a Non-Heme Iron {Feâ^'NO}7 System:â€‰ Exploring the Geometric and Electronic Structures of the Nitrosyl Adduct of Iron Superoxide Dismutase. Journal of the American Chemical Society, 2003, 125, 8348-8363. | 13.7 | 61 |
| 71 | Spectroscopic and Computational Studies on Iron and Manganese Superoxide Dismutases:â€‰ Nature of the Chemical Events Associated with Active-Site pKs. Journal of the American Chemical Society, 2002, 124, 10833-10845. | 13.7 | 54 |
| 72 | Electrochemical Formation and Reactivity of a Mnâ€Peroxo Complex Bearing an Amido N5 Ligand. ChemElectroChem, 0, , . | 3.4 | 1 |