

Kyle M Lancaster

List of Publications by Citations

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94
papers

4,296
citations

31
h-index

64
g-index

100
ext. papers

5,235
ext. citations

11.6
avg, IF

5.81
L-index

#	Paper	IF	Citations
94	Beyond fossil fuel-driven nitrogen transformations. <i>Science</i> , 2018 , 360,	33.3	772
93	X-ray emission spectroscopy evidences a central carbon in the nitrogenase iron-molybdenum cofactor. <i>Science</i> , 2011 , 334, 974-7	33.3	659
92	Nitric oxide is an obligate bacterial nitrification intermediate produced by hydroxylamine oxidoreductase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 8217-8222	11.5	207
91	Ultrafast excited-state dynamics of rhenium(I) photosensitizers [Re(Cl)(CO) ₃ (N,N)] and [Re(imidazole)(CO) ₃ (N,N)] ⁺ : diimine effects. <i>Inorganic Chemistry</i> , 2011 , 50, 2932-43	5.1	155
90	Direct spectroscopic characterization of a transitory dirhodium donor-acceptor carbene complex. <i>Science</i> , 2013 , 342, 351-4	33.3	146
89	Nitrosomonas europaea cytochrome P460 is a direct link between nitrification and nitrous oxide emission. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 14704-14709	11.5	108
88	Experimental fingerprints for redox-active terpyridine in [Cr(tpy) ₂](PF ₆) _n (n = 3-0), and the remarkable electronic structure of [Cr(tpy) ₂] ¹⁻ . <i>Inorganic Chemistry</i> , 2012 , 51, 3718-32	5.1	104
87	Electrochemical Azidooxygenation of Alkenes Mediated by a TEMPO-N Charge-Transfer Complex. <i>Journal of the American Chemical Society</i> , 2018 , 140, 12511-12520	16.4	102
86	X-ray spectroscopic observation of an interstitial carbide in NiFeN-bound FeMoco precursor. <i>Journal of the American Chemical Society</i> , 2013 , 135, 610-2	16.4	87
85	Rh ₂ (II,III) Catalysts with Chelating Carboxylate and Carboxamidate Supports: Electronic Structure and Nitrene Transfer Reactivity. <i>Journal of the American Chemical Society</i> , 2016 , 138, 2327-41	16.4	82
84	Synthesis of a copper-supported triplet nitrene complex pertinent to copper-catalyzed amination. <i>Science</i> , 2019 , 365, 1138-1143	33.3	81
83	Direct Comparison of C-H Bond Amination Efficacy through Manipulation of Nitrogen-Valence Centered Redox: Imido versus Iminyl. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14757-14766	16.4	78
82	Type-zero copper proteins. <i>Nature Chemistry</i> , 2009 , 1, 711-5	17.6	73
81	Inner- and outer-sphere metal coordination in blue copper proteins. <i>Journal of Inorganic Biochemistry</i> , 2012 , 115, 119-26	4.2	65
80	Spectroscopic Evidence for a 3d(10) Ground State Electronic Configuration and Ligand Field Inversion in [Cu(CF ₃) ₄](1-). <i>Journal of the American Chemical Society</i> , 2016 , 138, 1922-31	16.4	63
79	The Myth of d Copper(III). <i>Journal of the American Chemical Society</i> , 2019 , 141, 18508-18520	16.4	61
78	Oxygen Activation by Co(II) and a Redox Non-Innocent Ligand: Spectroscopic Characterization of a Radical-Co(II)-Superoxide Complex with Divergent Catalytic Reactivity. <i>Journal of the American Chemical Society</i> , 2016 , 138, 1796-9	16.4	57

77	Manganese nitride complexes in oxidation states III, IV, and V: synthesis and electronic structure. <i>Journal of the American Chemical Society</i> , 2012 , 134, 15538-44	16.4	56
76	KIX-ray emission spectroscopy offers unique chemical bonding insights: revisiting the electronic structure of ferrocene. <i>Inorganic Chemistry</i> , 2011 , 50, 6767-74	5.1	55
75	Alternative Bioenergy: Updates to and Challenges in Nitrification Metalloenzymology. <i>Joule</i> , 2018 , 2, 421-441	27.8	54
74	Switchable Interaction in Molecular Double Qubits. <i>CheM</i> , 2016 , 1, 727-752	16.2	49
73	X-ray Spectroscopic Interrogation of Transition-Metal-Mediated Homogeneous Catalysis: Primer and Case Studies. <i>ACS Catalysis</i> , 2017 , 7, 1776-1791	13.1	47
72	Electron transfer reactivity of type zero <i>Pseudomonas aeruginosa</i> azurin. <i>Journal of the American Chemical Society</i> , 2011 , 133, 4865-73	16.4	44
71	Electronic structures, photophysical properties, and electrochemistry of ruthenium(II)(bpy) ₂ pyridylimidazole complexes. <i>Coordination Chemistry Reviews</i> , 2010 , 254, 1803-1811	23.2	43
70	Structures and reactivity patterns of group 9 metallocorroles. <i>Inorganic Chemistry</i> , 2009 , 48, 9308-15	5.1	42
69	Manganese binding to Rubisco could drive a photorespiratory pathway that increases the energy efficiency of photosynthesis. <i>Nature Plants</i> , 2018 , 4, 414-422	11.5	39
68	Electronic Structural Analysis of Copper(II)-TEMPO/ABNO Complexes Provides Evidence for Copper(I)-Oxoammonium Character. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13507-13517	16.4	38
67	Discovery and characterization of a Coenzyme A disulfide reductase from <i>Pyrococcus horikoshii</i> . Implications for this disulfide metabolism of anaerobic hyperthermophiles. <i>FEBS Journal</i> , 2005 , 272, 1189-200	5.7	37
66	Outer-sphere contributions to the electronic structure of type zero copper proteins. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8241-53	16.4	36
65	Biological and Bioinspired Inorganic N-N Bond-Forming Reactions. <i>Chemical Reviews</i> , 2020 , 120, 5252-5368	8.1	34
64	Organometallic and radical intermediates reveal mechanism of diphthamide biosynthesis. <i>Science</i> , 2018 , 359, 1247-1250	33.3	32
63	High-potential C112D/M121X (X = M, E, H, L) <i>Pseudomonas aeruginosa</i> azurins. <i>Inorganic Chemistry</i> , 2009 , 48, 1278-80	5.1	29
62	Activation of Dioxygen by a Mononuclear Nonheme Iron Complex: Sequential Peroxo, Oxo, and Hydroxo Intermediates. <i>Journal of the American Chemical Society</i> , 2019 , 141, 17533-17547	16.4	28
61	Determination of coenzyme A levels in <i>Pyrococcus furiosus</i> and other Archaea: implications for a general role for coenzyme A in thermophiles. <i>FEMS Microbiology Letters</i> , 2005 , 252, 229-34	2.9	28
60	Probing Cu(I) in homogeneous catalysis using high-energy-resolution fluorescence-detected X-ray absorption spectroscopy. <i>Chemical Communications</i> , 2015 , 51, 9864-7	5.8	27

59	Ligand-sensitive but not ligand-diagnostic: evaluating Cr valence-to-core X-ray emission spectroscopy as a probe of inner-sphere coordination. <i>Inorganic Chemistry</i> , 2015 , 54, 205-14	5.1	25
58	Outer-sphere effects on reduction potentials of copper sites in proteins: the curious case of high potential type 2 C112D/M121E <i>Pseudomonas aeruginosa</i> azurin. <i>Journal of the American Chemical Society</i> , 2010 , 132, 14590-5	16.4	25
57	Dramatic influence of an anionic donor on the oxygen-atom transfer reactivity of a Mn(V) -oxo complex. <i>Chemistry - A European Journal</i> , 2014 , 20, 14584-8	4.8	24
56	Ancillary ligand effects upon dithiolene redox noninnocence in tungsten bis(dithiolene) complexes. <i>Inorganic Chemistry</i> , 2013 , 52, 6743-51	5.1	24
55	Reduction of CO by a masked two-coordinate cobalt(i) complex and characterization of a proposed oxodicobalt(ii) intermediate. <i>Chemical Science</i> , 2019 , 10, 918-929	9.4	23
54	Electronic Structure of Ni(II) Complexes (E = S, Se, Te) and a Global Analysis of M(II) Compounds: A Case for Quantized E(h ⁻) Oxidation Levels with n = 2, 3, or 4. <i>Journal of the American Chemical Society</i> , 2015 , 137, 4993-5011	16.4	23
53	Reversible Ligand-Centered Reduction in Low-Coordinate Iron Formazanate Complexes. <i>Chemistry - A European Journal</i> , 2018 , 24, 9417-9425	4.8	23
52	X-ray absorption spectroscopy systematics at the tungsten L-edge. <i>Inorganic Chemistry</i> , 2014 , 53, 8230-44.1	4.1	23
51	Study of iron dimers reveals angular dependence of valence-to-core X-ray emission spectra. <i>Inorganic Chemistry</i> , 2014 , 53, 10378-85	5.1	23
50	Exploring the limits of redox non-innocence: pseudo square planar [μ -Me ₂ C(CH ₂ NCHpy) ₂ Ni] _n (n = 2+, 1+, 0, I, II) favor Ni(II). <i>Chemical Science</i> , 2013 , 4, 3636	9.4	23
49	Cerium(IV) Enhances the Catalytic Oxidation Activity of Single-Site Cu Active Sites in MOFs. <i>ACS Catalysis</i> , 2020 , 10, 7820-7825	13.1	22
48	Alkali Cation Effects on Redox-Active Formazanate Ligands in Iron Chemistry. <i>Inorganic Chemistry</i> , 2018 , 57, 9580-9591	5.1	22
47	Synthesis, characterization and C-H amination reactivity of nickel iminyl complexes. <i>Chemical Science</i> , 2019 , 11, 1260-1268	9.4	22
46	A Nonheme Thiolate-Ligated Cobalt Superoxo Complex: Synthesis and Spectroscopic Characterization, Computational Studies, and Hydrogen Atom Abstraction Reactivity. <i>Journal of the American Chemical Society</i> , 2019 , 141, 3641-3653	16.4	21
45	Enhanced Fe-Centered Redox Flexibility in Fe-Ti Heterobimetallic Complexes. <i>Inorganic Chemistry</i> , 2019 , 58, 6199-6214	5.1	19
44	Influences of the heme-lysine crosslink in cytochrome P460 over redox catalysis and nitric oxide sensitivity. <i>Chemical Science</i> , 2018 , 9, 368-379	9.4	18
43	Crystalline Coordination Networks of Zero-Valent Metal Centers: Formation of a 3-Dimensional Ni(0) Framework with m-Terphenyl Diisocyanides. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17257-17260	16.4	17
42	Molecular redox: revisiting the electronic structures of the group 9 metallocorroles. <i>Inorganic Chemistry</i> , 2012 , 51, 12473-82	5.1	17

41	Scrutinizing metal-ligand covalency and redox non-innocence nitrogen K-edge X-ray absorption spectroscopy. <i>Chemical Science</i> , 2019 , 10, 5044-5055	9.4	16
40	Spin delocalization over type zero copper. <i>Inorganic Chemistry</i> , 2012 , 51, 4066-75	5.1	16
39	Electronic Structures and Reactivity Profiles of Aryl Nitrenoid-Bridged Dicopper Complexes. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2264-2276	16.4	13
38	Light-atom influences on the electronic structures of iron-sulfur clusters. <i>Inorganic Chemistry</i> , 2014 , 53, 2591-7	5.1	12
37	Stabilizing coordinated radicals via metal-ligand covalency: a structural, spectroscopic, and theoretical investigation of group 9 tris(dithiolene) complexes. <i>Inorganic Chemistry</i> , 2015 , 54, 3660-9	5.1	12
36	Controlling a burn: outer-sphere gating of hydroxylamine oxidation by a distal base in cytochrome P460. <i>Chemical Science</i> , 2019 , 10, 3756-3764	9.4	11
35	An Approach to Carbide-Centered Cluster Complexes. <i>Inorganic Chemistry</i> , 2019 , 58, 4812-4819	5.1	11
34	Heteroleptic Samarium(III) Chalcogenide Complexes: Opportunities for Giant Exchange Coupling in Bridging π and σ Radical Lanthanide Dichalcogenides. <i>Inorganic Chemistry</i> , 2020 , 59, 7571-7583	5.1	11
33	Structure, Spectroscopy, and Reactivity of a Mononuclear Copper Hydroxide Complex in Three Molecular Oxidation States. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12265-12276	16.4	11
32	A di-iron protein recruited as an Fe[II] and oxygen sensor for bacterial chemotaxis functions by stabilizing an iron-peroxy species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 14955-14960	11.5	11
31	X-ray absorption spectroscopic, crystallographic, theoretical (DFT) and chemical evidence for a chalcogen-chalcogen two-center/three-electron half bond in an unprecedented "subselenide" Se ₂ (3-) ligand. <i>Chemistry - A European Journal</i> , 2012 , 18, 9179-83	4.8	11
30	Application of ⁹³ Nb NMR spectroscopy to (silox) ₃ Nb(Xn/Lm) complexes (silox = tBu ₃ SiO): Where does (silox) ₃ Nb(NN)Nb(silox) ₃ appear?. <i>Polyhedron</i> , 2016 , 103, 105-114	2.7	10
29	A Nonheme Sulfur-Ligated {FeNO} Complex and Comparison with Redox-Interconvertible {FeNO} and {FeNO} Analogues. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 13465-13469	16.4	10
28	Expanding the Scope of Ligand Substitution from [M(SCPh)] (M = Ni, Pd, Pt) To Afford New Heteroleptic Dithiolene Complexes. <i>Inorganic Chemistry</i> , 2017 , 56, 10257-10267	5.1	9
27	Dramatic Electronic Perturbations of Cu Centers via Subtle Geometric Changes. <i>Journal of the American Chemical Society</i> , 2019 , 141, 1373-1381	16.4	9
26	The Eponymous Cofactors in Cytochrome P460s from Ammonia-Oxidizing Bacteria Are Iron Porphyrinoids Whose Macrocycles Are Dibasic. <i>Biochemistry</i> , 2018 , 57, 334-343	3.2	9
25	A Mononuclear, Nonheme Fe-PilotyB Acid (PhSONHOH) Adduct: An Intermediate in the Production of {FeNO} Complexes from PilotyB Acid. <i>Journal of the American Chemical Society</i> , 2019 , 141, 7046-7055	16.4	7
24	Masked Radicals: Iron Complexes of Trityl, Benzophenone, and Phenylacetylene. <i>Organometallics</i> , 2019 , 38, 4224-4232	3.8	7

23	Heme P460: A (Cross) Link to Nitric Oxide. <i>Accounts of Chemical Research</i> , 2020 , 53, 2925-2935	24.3	7
22	Revving up an artificial metalloenzyme. <i>Science</i> , 2018 , 361, 1071-1072	33.3	7
21	Chalcogen Impact on Covalency within Molecular [Cu(E)] Clusters (E = O, S, Se): A Synthetic, Spectroscopic, and Computational Study. <i>Inorganic Chemistry</i> , 2018 , 57, 11382-11392	5.1	7
20	[(MeCN)Ni(CF)] and [Ni(CF)]: Foundations toward the Development of Trifluoromethylations at Unsupported Nickel. <i>Inorganic Chemistry</i> , 2020 , 59, 9143-9151	5.1	6
19	The 4-Electron Cleavage of a N ₂ N Double Bond by a Trimetallic TiNi Complex. <i>Inorganic Chemistry</i> , 2019 , 58, 11762-11772	5.1	6
18	The influences of carbon donor ligands on biomimetic multi-iron complexes for N reduction. <i>Chemical Science</i> , 2020 , 11, 12710-12720	9.4	6
17	The Heme-Lys Cross-Link in Cytochrome P460 Promotes Catalysis by Enforcing Secondary Coordination Sphere Architecture. <i>Biochemistry</i> , 2020 , 59, 2289-2298	3.2	5
16	Heteroleptic samarium(iii) halide complexes probed by fluorescence-detected L-edge X-ray absorption spectroscopy. <i>Dalton Transactions</i> , 2018 , 47, 10613-10625	4.3	5
15	Anomalous orbital admixture in ammine complexes. <i>Journal of Organometallic Chemistry</i> , 2015 , 792, 6-12	2.3	5
14	A Nonheme Mononuclear {FeNO} Complex that Produces N ₂ O in the Absence of an Exogenous Reductant. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 21558-21564	16.4	5
13	Conjugated Microporous Polymers via Solvent-Free Ionothermal Cyclotrimerization of Methyl Ketones. <i>Chemistry of Materials</i> ,	9.6	4
12	A Mononuclear and High-Spin Tetrahedral Ti Complex. <i>Inorganic Chemistry</i> , 2020 , 59, 17834-17850	5.1	4
11	Probing the electronic and mechanistic roles of the Sulfur atom in a synthetic Cu model system. <i>Chemical Science</i> , 2020 , 11, 3441-3447	9.4	3
10	A Nonheme Sulfur-Ligated {FeNO} ₆ Complex and Comparison with Redox-Interconvertible {FeNO} ₇ and {FeNO} ₈ Analogues. <i>Angewandte Chemie</i> , 2018 , 130, 13653-13657	3.6	3
9	Comment on "A Critical Review on Nitrous Oxide Production by Ammonia-Oxidizing Archaea" by Lan Wu, Xueming Chen, Wei Wei, Yiwen Liu, Dongbo Wang, and Bing-Jie Ni. <i>Environmental Science & Technology</i> , 2021 , 55, 797-798	10.3	3
8	Scrutinizing "Ligand Bands" via Polarized Single-Crystal X-ray Absorption Spectra of Copper(I) and Copper(II) Bis-2,2'Pbipyridine Species. <i>Inorganic Chemistry</i> , 2020 , 59, 13416-13426	5.1	3
7	An Isolable Mononuclear Palladium(II) Amido Complex. <i>Journal of the American Chemical Society</i> , 2021 , 143, 10751-10759	16.4	3
6	Iron Complexes of a Proton-Responsive SCS Pincer Ligand with a Sensitive Electronic Structure.. <i>Inorganic Chemistry</i> , 2022 ,	5.1	2

- 5 Azaallyl-derived ring formation via redox coupling in first row transition metals. *Polyhedron*, **2019**, 158, 225-233 2.7 2
- 4 Dph3 Enables Aerobic Diphthamide Biosynthesis by Donating One Iron Atom to Transform a [3Fe-4S] to a [4Fe-4S] Cluster in Dph1-Dph2. *Journal of the American Chemical Society*, **2021**, 143, 9314-9319 16.4 1
- 3 Sizing up a supercharged ferryl. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 4532-4534 11.5
- 2 Celebrating the Year of the Periodic Table: Emerging Investigators in Inorganic Chemistry. *Inorganic Chemistry*, **2019**, 58, 10433-10435 5.1
- 1 A Nonheme Mononuclear {FeNO}7 Complex that Produces N2O in the Absence of an Exogenous Reductant. *Angewandte Chemie*, **2021**, 133, 21728-21734 3.6