Leslie J Murray

List of Publications by Year
in descending order

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47	6,580	257450	233421
papers	citations	24 h-index	45 g-index

53	53	53	7686
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hydrogen storage in metalâ€“organic frameworks. Chemical Society Reviews, 2009, 38, 1294.	38.1	4,136
2	Selective Binding of O₂ over N₂ in a Redoxâ€“Active Metalâ€“Organic Framework with Open Iron(II) Coordination Sites. Journal of the American Chemical Society, 2011, 133, 14814-14822.	13.7	470
3	Highly-Selective and Reversible O₂ Binding in Cr₃(1,3,5-benzenetricarboxylate)₂. Journal of the American Chemical Society, 2010, 132, 7856-7857.	13.7	307
4	Impact of Metal and Anion Substitutions on the Hydrogen Storage Properties of M-BTT Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2013, 135, 1083-1091.	13.7	139
5	Activation of Dinitrogen by Polynuclear Metal Complexes. Chemical Reviews, 2020, 120, 5517-5581.	47.7	134
6	Substrate Trafficking and Dioxygen Activation in Bacterial Multicomponent Monooxygenases. Accounts of Chemical Research, 2007, 40, 466-474.	15.6	117
7	Dinitrogen Activation Upon Reduction of a Triiron(II) Complex. Angewandte Chemie - International Edition, 2015, 54, 1499-1503.	13.8	113
8	Hydrogen Storage and Selective, Reversible O₂ Adsorption in a Metalâ€“Organic Framework with Open Chromium(II) Sites. Angewandte Chemie - International Edition, 2016, 55, 8605-8609.	13.8	102
9	Characterization of the Arene-Oxidizing Intermediate in ToMOH as a Diiron(III) Species. Journal of the American Chemical Society, 2007, 129, 14500-14510.	13.7	90
10	Hydrogen adsorption in the metalâ€“organic frameworks Fe2(dobdc) and Fe2(O2)(dobdc). Dalton Transactions, 2012, 41, 4180.	3.3	78
11	Modeling Biological Copper Clusters: Synthesis of a Tricopper Complex, and Its Chloride- and Sulfide-Bridged Congeners. Inorganic Chemistry, 2014, 53, 4647-4654.	4.0	67
12	Isolation of a (Dinitrogen)Tricopper(I) Complex. Journal of the American Chemical Society, 2014, 136, 13502-13505.	13.7	66
13	Dioxygen Activation at Non-Heme Diiron Centers:Â Characterization of Intermediates in a Mutant Form of Toluene/o-Xylene Monooxygenase Hydroxylase. Journal of the American Chemical Society, 2006, 128, 7458-7459.	13.7	54
14	Preorganized assembly of three iron(ii) or manganese(ii) Î²-diketiminate complexes using a cyclophane ligand. Chemical Communications, 2013, 49, 6635.	4.1	54
15	Catalytic Silylation of Dinitrogen by a Family of Triiron Complexes. ACS Catalysis, 2018, 8, 7208-7212.	11.2	51
16	Neutron Scattering and Spectroscopic Studies of Hydrogen Adsorption in Cr₃(BTC)₂â€”A Metalâ^'Organic Framework with Exposed Cr²⁺ Sites. Journal of Physical Chemistry C, 2011, 115, 8414-8421.	3.1	50
17	Reactivity of Hydride Bridges in High-Spin [3Mâ€“3(Î¼-H)] Clusters (M = FeII, CoII). Journal of the American Chemical Society, 2015, 137, 10610-10617.	13.7	45
18	An Airâ€•and Waterâ€Tolerant Zinc Hydride Cluster That Reacts Selectively With CO₂. Angewandte Chemie - International Edition, 2015, 54, 7047-7050.	13.8	38

#	Article	IF	Citations
19	Countercations and Solvent Influence CO₂ Reduction to Oxalate by Chalcogen-Bridged Tricopper Cyclophanates. Journal of the American Chemical Society, 2018, 140, 5696-5700.	13.7	37
20	An Airâ€•and Waterâ€Tolerant Zinc Hydride Cluster That Reacts Selectively With CO₂. Angewandte Chemie, 2015, 127, 7153-7156.	2.0	33
21	Nitride-Bridged Triiron Complex and Its Relevance to Dinitrogen Activation. Inorganic Chemistry, 2015, 54, 9282-9289.	4.0	33
22	A [3Feâ€“3S]3+ cluster with exclusively Î¼-sulfide donors. Chemical Communications, 2016, 52, 1174-1177.	4.1	30
23	Cyclophanes as Platforms for Reactive Multimetallic Complexes. Accounts of Chemical Research, 2019, 52, 447-455.	15.6	30
24	Hydrogen Storage and Selective, Reversible O₂ Adsorption in a Metalâ€“Organic Framework with Open Chromium(II) Sites. Angewandte Chemie, 2016, 128, 8747-8751.	2.0	23
25	Evaluating Metal Ion Identity on Catalytic Silylation of Dinitrogen Using a Series of Trimetallic Complexes. European Journal of Inorganic Chemistry, 2020, 2020, 1519-1524.	2.0	23
26	Dioxygen Activation at Non-Heme Diiron Centers:â€‰ Oxidation of a Proximal Residue in the I100W Variant of Toluene/o-Xylene Monooxygenase Hydroxylase. Biochemistry, 2007, 46, 14795-14809.	2.5	22
27	Synthesis and characterization of a tris(2-hydroxyphenyl)methane-based cryptand and its triiron(iii) complex. Dalton Transactions, 2012, 41, 7866.	3.3	21
28	Reactivity of hydride bridges in a high-spin [Fe₃(Î¼-H)₃]³⁺ cluster: reversible H₂/CO exchange and Feâ€“H/Bâ€“F bond metathesis. Chemical Science, 2017, 8, 4123-4129.	7.4	18
29	A Family of Tri- and Dimetallic Pyridine Dicarboxamide Cryptates: Unusual O,N,O-Coordination and Facile Access to Secondary Coordination Sphere Hydrogen Bonding Interactions. Inorganic Chemistry, 2015, 54, 2691-2704.	4.0	17
30	Desaturase Reactions Complicate the Use of Norcarane as a Mechanistic Probe. Unraveling the Mixture of Twenty-Plus Products Formed in Enzyme-Catalyzed Oxidations of Norcarane. Journal of Organic Chemistry, 2007, 72, 1121-1127.	3.2	16
31	A Tricopper(I) Complex Competent for O Atom Transfer, Câ€“H Bond Activation, and Multiple O₂ Activation Steps. Inorganic Chemistry, 2018, 57, 11361-11368.	4.0	14
32	Vitamin B12 for the treatment of vasoplegia in cardiac surgery and liver transplantation: a narrative review of cases and potential biochemical mechanisms. Canadian Journal of Anaesthesia, 2019, 66, 1501-1513.	1.6	14
33	Insights into small molecule activation by multinuclear first-row transition metal cyclophanates. Dalton Transactions, 2016, 45, 14499-14507.	3.3	13
34	Dinitrogen Insertion and Cleavage by a Metalâ€“Metal Bonded Tricobalt(I) Cluster. Journal of the American Chemical Society, 2021, 143, 5649-5653.	13.7	11
35	Products from Enzyme-Catalyzed Oxidations of Norcarenes. Journal of Organic Chemistry, 2007, 72, 1128-1133.	3.2	9
36	Chalcogen Impact on Covalency within Molecular [Cu₃(Î¼₃-E)]³⁺ Clusters (E = O, S, Se): A Synthetic, Spectroscopic, and Computational Study. Inorganic Chemistry, 2018, 57, 11382-11392.	4.0	9

#	Article	IF	Citations
37	Correlating Bridging Ligand with Properties of Ligand-Templated [MnII3X3]3+ Clusters (X = Brâ€“, Clâ€“,) Tj ETQq1 1 0.784314 rgBT	4.0	8
38	Carbon Dioxide Insertion into Bridging Iron Hydrides: Kinetic and Mechanistic Studies. European Journal of Inorganic Chemistry, 2019, 2019, 2146-2153.	2.0	8
39	A three-coordinate Fe(<scp>ii</scp>) center within a [3Feâ€“(Î¼₃-S)] cluster that provides an accessible coordination site. Chemical Communications, 2016, 52, 9295-9298.	4.1	8
40	Coordination Chemistry of Iron-Dinitrogen Complexes With Relevance to Biological N2 Fixation. , 2020, , .		5
41	Synthesis of Trinuclear Tin(II), Germanium(II), and Aluminum(III) Cyclophane Complexes. Organometallics, 2016, 35, 3651-3657.	2.3	4
42	Access to Metal Centers and Fluxional Hydride Coordination Integral for CO₂ Insertion into [Fe₃(Î¼-H)₃]³⁺ Clusters. Inorganic Chemistry, 2021, 60, 7228-7239.	4.0	4
43	Dinitrogen Coordination to a Highâ€Spin Diiron(I/II) Species. Angewandte Chemie - International Edition, 2022, 61, .	13.8	4
44	Cleavage of cluster ironâ€“sulfide bonds in cyclophane-coordinated Fe_nS_m complexes. Dalton Transactions, 2021, 50, 816-821.	3.3	3
45	Isolation of chloride- and hydride-bridged tri-iron and -zinc clusters in a tris(Î²-oxo-Î´-diimine) cyclophane ligand. Dalton Transactions, 2019, 48, 9570-9575.	3.3	1
46	Synthetic Factors Governing Access to Tris(Î²-diketimine) Cyclophanes versus Tripodal Tri-Î²-aminoenones. Journal of Organic Chemistry, 2020, 85, 13579-13588.	3.2	0
47	Dinitrogen Coordination to a Highâ€Spin Diiron(I/II) Species. Angewandte Chemie, 0, , .	2.0	0