

# Ellen M Matson

## List of Publications by Year in descending order

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74  
papers

2,200  
citations

186265

28  
h-index

254184

43  
g-index

76  
all docs

76  
docs citations

76  
times ranked

1656  
citing authors

#	ARTICLE	IF	CITATIONS
1	A bioinspired iron catalyst for nitrate and perchlorate reduction. <i>Science</i> , 2016, 354, 741-743.	12.6	159
2	Polyoxovanadate-alkoxide clusters as multi-electron charge carriers for symmetric non-aqueous redox flow batteries. <i>Chemical Science</i> , 2018, 9, 1692-1699.	7.4	129
3	Functionalization of Carbon Dioxide and Carbon Disulfide Using a Stable Uranium(III) Alkyl Complex. <i>Journal of the American Chemical Society</i> , 2011, 133, 4948-4954.	13.7	103
4	Facile Nitrite Reduction in a Non-heme Iron System: Formation of an Iron(III)-Oxo. <i>Journal of the American Chemical Society</i> , 2014, 136, 17398-17401.	13.7	89
5	Synthesis of U(IV) imidos from $Tp^*2U(CH_2Ph)$ ( $Tp^*$ = hydrotris(3,5-dimethylpyrazolyl)borate) by extrusion of bibenzyl. <i>Dalton Transactions</i> , 2012, 41, 7952.	3.3	67
6	Formation of Trivalent U–C, U–N, and U–S Bonds and Their Reactivity toward Carbon Dioxide and Acetone. <i>Organometallics</i> , 2011, 30, 5753-5762.	2.3	66
7	Oxygen-Atom Vacancy Formation at Polyoxovanadate Clusters: Homogeneous Models for Reducible Metal Oxides. <i>Journal of the American Chemical Society</i> , 2018, 140, 8424-8428.	13.7	59
8	Isolation of Iron(II) Aqua and Hydroxyl Complexes Featuring a Tripodal H-bond Donor and Acceptor Ligand. <i>Inorganic Chemistry</i> , 2014, 53, 4450-4458.	4.0	55
9	Multielectron C=O Bond Activation Mediated by a Family of Reduced Uranium Complexes. <i>Inorganic Chemistry</i> , 2014, 53, 3730-3741.	4.0	54
10	Tris(phosphinoamide)-Supported Uranium–Cobalt Heterobimetallic Complexes Featuring Co–U Dative Interactions. <i>Inorganic Chemistry</i> , 2013, 52, 12170-12177.	4.0	53
11	Heterometal functionalization yields improved energy density for charge carriers in nonaqueous redox flow batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13874-13882.	10.3	52
12	Monoanionic bis(carbene) pincer complexes featuring cobalt(III) oxidation states. <i>Dalton Transactions</i> , 2016, 45, 9805-9811.	3.3	50
13	Organic Functionalization of Polyoxovanadate–Alkoxide Clusters: Improving the Solubility of Multimetallic Charge Carriers for Nonaqueous Redox Flow Batteries. <i>ChemSusChem</i> , 2018, 11, 4139-4149.	6.8	49
14	Nickel(II) Pincer Carbene Complexes: Oxidative Addition of an Aryl C–H Bond to Form a Ni(II) Hydride. <i>Organometallics</i> , 2015, 34, 399-407.	2.3	48
15	Polyoxovanadate–Alkoxide Clusters as a Redox Reservoir for Iron. <i>Inorganic Chemistry</i> , 2017, 56, 7065-7080.	4.0	48
16	Self-Assembled, Iron-Functionalized Polyoxovanadate Alkoxide Clusters. <i>Inorganic Chemistry</i> , 2016, 55, 7332-7334.	4.0	47
17	Diazoalkane Reduction for the Synthesis of Uranium Hydrazonido Complexes. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 5471-5478.	2.0	43
18	Tuning the redox profiles of polyoxovanadate-alkoxide clusters via heterometal installation: toward designer redox Reagents. <i>Dalton Transactions</i> , 2018, 47, 3698-3704.	3.3	42

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19	âœOxidative Additionâœof Halogens to Uranium(IV) Bis(amidophenolate) Complexes. <i>Inorganic Chemistry</i> , 2013, 52, 7295-7304.	4.0	40
20	Synthesis of Terminal Uranium(IV) Disulfido and Diselenido Compounds by Activation of Elemental Sulfur and Selenium. <i>Chemistry - A European Journal</i> , 2013, 19, 16176-16180.	3.3	40
21	Use of Alkylsodium Reagents for the Synthesis of Trivalent Uranium Alkyl Complexes. <i>Organometallics</i> , 2012, 31, 4467-4473.	2.3	39
22	Radical Reductive Elimination from Tetrabenzyluranium Mediated by an Iminoquinone Ligand. <i>Organometallics</i> , 2014, 33, 1964-1971.	2.3	38
23	Synthesis and Reactivity of Trivalent $Tp^*U(CH_2Ph)_2(THF)$ : Insertion vs Oxidation at Low-Valent UraniumâœCarbon Bonds. <i>Organometallics</i> , 2013, 32, 1484-1492.	2.3	37
24	Atomically precise vanadium-oxide clusters. <i>Nanoscale Advances</i> , 2021, 3, 1293-1318.	4.6	37
25	Tuning the Fe(II/III) Redox Potential in Nonheme Fe(II)âœHydroxo Complexes through Primary and Secondary Coordination Sphere Modifications. <i>Inorganic Chemistry</i> , 2017, 56, 4852-4863.	4.0	35
26	Electrocatalytic Multielectron Nitrite Reduction in Water by an Iron Complex. <i>ACS Catalysis</i> , 2020, 10, 13968-13972.	11.2	34
27	Site-Selective Halogenation of Polyoxovanadate Clusters: Atomically Precise Models for Electronic Effects of Anion Doping in $VO_2$ . <i>Journal of the American Chemical Society</i> , 2020, 142, 1049-1056.	13.7	33
28	Exploring MnâœO bonding in the context of an electronically flexible secondary coordination sphere: synthesis of a $Mn(\mu_3-O)$ âœoxo. <i>Chemical Communications</i> , 2015, 51, 5310-5313.	4.1	31
29	Physicochemical implications of alkoxide âœmixingâœin polyoxovanadium clusters for nonaqueous energy storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4893-4902.	10.3	31
30	Acid-Induced, Oxygen-Atom Defect Formation in Reduced Polyoxovanadate-Alkoxide Clusters. <i>Journal of the American Chemical Society</i> , 2020, 142, 9915-9919.	13.7	31
31	Trivalent Uranium Phenylchalcogenide Complexes: Exploring the Bonding and Reactivity with $CS_2$ in the $Tp^*UEPh$ Series (E = O, S, Se, Te). <i>Inorganic Chemistry</i> , 2014, 53, 12977-12985.	4.0	29
32	Isolation of a uranium( $\mu_3$ ) benzophenone ketyl radical that displays redox-active ligand behaviour. <i>Dalton Transactions</i> , 2014, 43, 17885-17888.	3.3	27
33	Oxygen atom transfer with organofunctionalized polyoxovanadium clusters: O-atom vacancy formation with tertiary phosphanes and deoxygenation of styrene oxide. <i>Chemical Science</i> , 2019, 10, 8035-8045.	7.4	25
34	Characterization of Terminal Iron(III)âœOxo and Iron(III)âœHydroxo Complexes Derived from $O_2$ Activation. <i>Inorganic Chemistry</i> , 2019, 58, 15801-15811.	4.0	24
35	Concerted MultiprotonâœMultielectron Transfer for the Reduction of $O_2$ to $H_2O$ with a Polyoxovanadate Cluster. <i>Journal of the American Chemical Society</i> , 2021, 143, 15756-15768.	13.7	24
36	Site-selectivity in the halogenation of titanium-functionalized polyoxovanadateâœalkoxide clusters. <i>Chemical Communications</i> , 2018, 54, 6839-6842.	4.1	23

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37	Oxygen-atom vacancy formation and reactivity in polyoxovanadate clusters. <i>Chemical Communications</i> , 2020, 56, 13477-13490.	4.1	22
38	Synthesis of a gallium-functionalized polyoxovanadate-alkoxide cluster: Toward a general route for heterometal installation. <i>Polyhedron</i> , 2018, 156, 303-311.	2.2	21
39	Enhancing the activity of photocatalytic hydrogen evolution from CdSe quantum dots with a polyoxovanadate cluster. <i>Chemical Communications</i> , 2020, 56, 8762-8765.	4.1	21
40	Nitric oxide activation facilitated by cooperative multimetallic electron transfer within an iron-functionalized polyoxovanadate-alkoxide cluster. <i>Chemical Science</i> , 2018, 9, 6379-6389.	7.4	20
41	Controlling Metal-to-Oxygen Ratios via M-O Bond Cleavage in Polyoxovanadate Alkoxide Clusters. <i>Inorganic Chemistry</i> , 2019, 58, 10462-10471.	4.0	19
42	Transport and Electron Transfer Kinetics of Polyoxovanadate-Alkoxide Clusters. <i>Journal of the Electrochemical Society</i> , 2019, 166, A464-A472.	2.9	19
43	Surface functionalization of polyoxovanadium clusters: generation of highly soluble charge carriers for nonaqueous energy storage. <i>Chemical Communications</i> , 2019, 55, 12247-12250.	4.1	19
44	Progress in the Design of Polyoxovanadate-Alkoxides as Charge Carriers for Nonaqueous Redox Flow Batteries. <i>Comments on Inorganic Chemistry</i> , 2019, 39, 51-89.	5.2	17
45	An Organofunctionalized Polyoxovanadium Cluster as a Molecular Model of Interfacial Pseudocapacitance. <i>ACS Applied Energy Materials</i> , 2019, 2, 8985-8993.	5.1	17
46	Conversion of NO <sub>x</sub> (x = 2, 3) to NO using an oxygen-deficient polyoxovanadate-alkoxide cluster. <i>Chemical Communications</i> , 2020, 56, 555-558.	4.1	17
47	Synthesis and characterization of M( $\mu_2$ ) (M = Mn, Fe and Co) azafulvene complexes and their X <sub>3</sub> derivatives. <i>Dalton Transactions</i> , 2015, 44, 10377-10384.	3.3	15
48	Polyoxometalate-based complexes as ligands for the study of actinide chemistry. <i>Dalton Transactions</i> , 2020, 49, 13917-13927.	3.3	15
49	Oxygen-Atom Defect Formation in Polyoxovanadate Clusters via Proton-Coupled Electron Transfer. <i>Journal of the American Chemical Society</i> , 2022, 144, 5029-5041.	13.7	15
50	Expanding the Family of Uranium(III) Alkyls: Synthesis and Characterization of Mixed-Ligand Derivatives. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 2527-2533.	2.0	14
51	Synthesis and Characterization of ( $\mu_2$ -DIPP)CCFe Complexes: A Zwitterionic Metalation Method and CO <sub>2</sub> Reactivity. <i>Organometallics</i> , 2019, 38, 2943-2952.	2.3	13
52	Consequences of ligand derivatization on the electronic properties of polyoxovanadate-alkoxide clusters. <i>Journal of Coordination Chemistry</i> , 2019, 72, 1267-1286.	2.2	13
53	Electronic Consequences of Ligand Substitution at Heterometal Centers in Polyoxovanadium Clusters: Controlling the Redox Properties through Heterometal Coordination Number. <i>Chemistry - A European Journal</i> , 2020, 26, 9905-9914.	3.3	13
54	Light-driven hydrogen production with CdSe quantum dots and a cobalt glutathione catalyst. <i>Chemical Communications</i> , 2021, 57, 2053-2056.	4.1	12

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55	Meridional vs. facial coordination geometries of a dipodal ligand framework featuring a secondary coordination sphere. <i>Dalton Transactions</i> , 2014, 43, 16992-16995.	3.3	11
56	Manganese-Catalyzed Kumada Cross-Coupling Reactions of Aliphatic Grignard Reagents with N-Heterocyclic Chlorides. <i>Synlett</i> , 2018, 29, 1700-1706.	1.8	10
57	Low- and Mid-Valent Uranium Species Supported by Phenyltris(oxazolanyl)borate Ligands. <i>Organometallics</i> , 2020, 39, 353-360.	2.3	9
58	Modelling local structural and electronic consequences of proton and hydrogen-atom uptake in VO <sub>2</sub> with polyoxovanadate clusters. <i>Chemical Science</i> , 2021, 12, 12744-12753.	7.4	9
59	Charge-State Dependence of Proton Uptake in Polyoxovanadate-alkoxide Clusters. <i>Inorganic Chemistry</i> , 2022, 61, 4789-4800.	4.0	9
60	Mechanistic insights into polyoxometalate self-assembly in organic solvent: conversion of a cyclic polyoxovanadate-ethoxide to its Lindqvist congener. <i>Chemical Communications</i> , 2020, 56, 8607-8610.	4.1	8
61	Physicochemical Factors That Influence the Deoxygenation of Oxyanions in Atomically Precise, Oxygen-Deficient Vanadium Oxide Assemblies. <i>Inorganic Chemistry</i> , 2021, 60, 6855-6864.	4.0	8
62	O <sub>2</sub> Activation with a Sterically Encumbered, Oxygen-Deficient Polyoxovanadate-Alkoxide Cluster. <i>Inorganic Chemistry</i> , 2021, 60, 13833-13843.	4.0	8
63	Site-selective halogenation of mixed-valent vanadium oxide clusters. <i>Dalton Transactions</i> , 2020, 49, 16184-16192.	3.3	6
64	Surface ligands influence the selectivity of cation uptake in polyoxovanadate-alkoxide clusters. <i>Journal of Materials Chemistry A</i> , 2022, 10, 12070-12078.	10.3	5
65	Ligand derivatization of titanium-functionalized polyoxovanadium-alkoxide clusters. <i>Polyhedron</i> , 2019, 167, 119-126.	2.2	4
66	Molecular Engineering of Polyoxovanadate-Alkoxide Clusters and Microporous Polymer Membranes to Prevent Crossover in Redox-Flow Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 22965-22972.	8.0	4
67	Hydrogen bonding promotes diversity in nitrite coordination modes at a single iron(II) center. <i>Journal of Coordination Chemistry</i> , 2020, 73, 2664-2676.	2.2	3
68	Reductive silylation of polyoxovanadate surfaces using Mashima's reagent. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 4507-4516.	6.0	3
69	Physicochemical implications of surface alkylation of high-valent, Lindqvist-type polyoxovanadate-alkoxide clusters. <i>Nanoscale</i> , 2021, 13, 6162-6173.	5.6	3
70	Synthesis and Characterization of Pyridine Dipyrroliide Uranyl Complexes. <i>Inorganic Chemistry</i> , 2022, 61, 6182-6192.	4.0	3
71	Mechanistic insight into rapid oxygen-atom transfer from a calix-functionalized polyoxovanadate. <i>Chemical Communications</i> , 2022, , .	4.1	2
72	Investigation of Cubic Fe <sub>4</sub> M <sub>4</sub> Frameworks for Application in Nonaqueous Energy Storage. <i>Chemistry - A European Journal</i> , 2019, 25, 14421-14429.	3.3	1

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73	Characterizing Polyoxovanadate-Alkoxide Clusters Using Vanadium K-Edge X-Ray Absorption Spectroscopy. Chemistry - A European Journal, 2021, 27, 1592-1597.	3.3	1
74	Development of sterically hindered siloxide-functionalized polyoxotungstates for the complexation of 5d-metals. Dalton Transactions, 2021, 50, 4300-4310.	3.3	0