

Samantha N Macmillan

List of Publications by Year in descending order

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104
papers

3,068
citations

182225

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all docs

106
docs citations

106
times ranked

3959
citing authors

#	ARTICLE	IF	CITATIONS
1	Iron Complexes of a Proton-Responsive SCS Pincer Ligand with a Sensitive Electronic Structure. <i>Inorganic Chemistry</i> , 2022, 61, 1644-1658.	1.9	7
2	Attempts at generating metathesis-active Fe(IV) and Co(IV) complexes via the reactions of (silox) ₂ M(THF) ₂ , [(silox) ₃ M][Na(THF) ₂] (M = Fe, Co), and related species with propellanes and triphenylboron. <i>Polyhedron</i> , 2022, 215, 115656.	1.0	2
3	Electronic Structure of Ru ²⁺ Complexes with Electron-Rich Anilino-pyridinate Ligands. <i>Inorganic Chemistry</i> , 2022, 61, 3443-3457.	1.9	2
4	Synthesis of Aminosilane Chemical Vapor Deposition Precursors and Polycarbosilazanes through Manganese-Catalyzed Si-N Dehydrocoupling. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 4218-4226.	3.2	8
5	Controlling Tautomerization in Pyridine-Fused Phosphorus-Nitrogen Heterocycles. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	3
6	H ₂ Activation across Manganese(I)-C Bonds: Atypical Metal-Ligand Cooperativity in the Aromatization/De-aromatization Paradigm. <i>Organometallics</i> , 2022, 41, 67-75.	1.1	7
7	Chelating the Alpha Therapy Radionuclides ²²⁵ Ac ³⁺ and ²¹³ Bi ³⁺ with 18-Membered Macrocyclic Ligands MacroDipa and Py-MacroDipa. <i>Inorganic Chemistry</i> , 2022, 61, 801-806.	1.9	15
8	Activation of H ₂ with Dinuclear Manganese(I)-Phosphido Complexes. <i>Organometallics</i> , 2022, 41, 60-66.	1.1	7
9	Reversible Photoisomerization in a Ru ^{cis} -Dihydride Catalyst Accessed through Atypical Metal-Ligand Cooperative H ₂ Activation: Photoenhanced Acceptorless Alcohol Dehydrogenation. <i>Organometallics</i> , 2022, 41, 93-98.	1.1	7
10	Hydrogenative Catalysis with Three-Coordinate Zinc Complexes Supported with PN Ligands is Enhanced Compared to PNP Analogs. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	4
11	Bench-Stable Dinuclear Mn(I) Catalysts in <i>E</i> -Selective Alkyne Semihydrogenation: A Mechanistic Investigation**. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	4
12	H ₂ BZmacropa-NCS: A Bifunctional Chelator for Actinium-225 Targeted Alpha Therapy. <i>Bioconjugate Chemistry</i> , 2022, 33, 1222-1231.	1.8	16
13	A Facially Coordinating Tris-Benzimidazole Ligand for Nonheme Iron Enzyme Models. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 654-657.	1.0	1
14	Synthesis and coordination of a tert-butyl functionalized facially coordinating 2-histidine-1-carboxylate model ligand. <i>Journal of Coordination Chemistry</i> , 2021, 74, 315-320.	0.8	1
15	Tuning the Kinetic Inertness of Bi ³⁺ Complexes: The Impact of Donor Atoms on Diaza-18-Crown-6 Ligands as Chelators for ²¹³ Bi Targeted Alpha Therapy. <i>Inorganic Chemistry</i> , 2021, 60, 9199-9211.	1.9	22
16	Py-MacroDipa: A Janus Chelator Capable of Binding Medicinally Relevant Rare-Earth Radiometals of Disparate Sizes. <i>Journal of the American Chemical Society</i> , 2021, 143, 10429-10440.	6.6	30
17	An Isolable Mononuclear Palladium(I) Amido Complex. <i>Journal of the American Chemical Society</i> , 2021, 143, 10751-10759.	6.6	11
18	A Nonheme Mononuclear {FeNO} 7 Complex that Produces N ₂ O in the Absence of an Exogenous Reductant. <i>Angewandte Chemie</i> , 2021, 133, 21728-21734.	1.6	0

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19	A Nonheme Mononuclear {FeNO} 7 Complex that Produces N ₂ O in the Absence of an Exogenous Reductant. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 21558-21564.	7.2	10
20	A Tale of Two Isomers: Enhanced Antiaromaticity/Diradical Character versus Deleterious Ring-Opening of Benzofuran-fused s-indacenes and Dicyclopenta[b , g]naphthalenes. <i>Angewandte Chemie</i> , 2021, 133, 22559-22566.	1.6	1
21	A Tale of Two Isomers: Enhanced Antiaromaticity/Diradical Character versus Deleterious Ring-Opening of Benzofuran-fused s-indacenes and Dicyclopenta[b , g]naphthalenes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22385-22392.	7.2	21
22	Isolation and X-ray Crystal Structure of an Electrogenenerated TEMPO-N ₃ Charge-Transfer Complex. <i>Organic Letters</i> , 2021, 23, 454-458.	2.4	12
23	Propellanes as Drop-In ROMP Initiators. <i>Organometallics</i> , 2021, 40, 3389-3396.	1.1	3
24	Reversible C-C Bond Formation, Halide Abstraction, and Electromers in Complexes of Iron Containing Redox-Noninnocent Pyridine-imine Ligands. <i>Inorganic Chemistry</i> , 2021, 60, 18662-18673.	1.9	6
25	A robust nickel catalyst with an unsymmetrical propyl-bridged diphosphine ligand for catalyst-transfer polymerization. <i>Polymer Journal</i> , 2020, 52, 83-92.	1.3	7
26	N ₂ O Reductase Activity of a [Cu ₄ S] Cluster in the 4Cu ^I Redox State Modulated by Hydrogen Bond Donors and Proton Relays in the Secondary Coordination Sphere. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 627-631.	7.2	22
27	N ₂ O Reductase Activity of a [Cu ₄ S] Cluster in the 4Cu ^I Redox State Modulated by Hydrogen Bond Donors and Proton Relays in the Secondary Coordination Sphere. <i>Angewandte Chemie</i> , 2020, 132, 637-641.	1.6	3
28	Molecule Isomerism Modulates the Diradical Properties of Stable Singlet Diradicaloids. <i>Journal of the American Chemical Society</i> , 2020, 142, 1548-1555.	6.6	65
29	Synthesis, characterization, and biological properties of rhenium(I) tricarbonyl complexes bearing nitrogen-donor ligands. <i>Journal of Organometallic Chemistry</i> , 2020, 907, 121064.	0.8	20
30	Catalyst-Controlled Regioselective Carbonylation of Isobutylene Oxide to Pivalolactone. <i>ACS Catalysis</i> , 2020, 10, 12537-12543.	5.5	8
31	Planar-Locked Ru-PNN Catalysts in 1-Phenylethanol Dehydrogenation. <i>Organometallics</i> , 2020, 39, 3628-3644.	1.1	9
32	Macrocyclic Ligands with an Unprecedented Size-Selectivity Pattern for the Lanthanide Ions. <i>Journal of the American Chemical Society</i> , 2020, 142, 13500-13506.	6.6	37
33	Synthesis of 1,2-Dihydroquinolines via Hydrazine-Catalyzed Ring-Closing Carbonyl-Olefin Metathesis. <i>Organic Letters</i> , 2020, 22, 6026-6030.	2.4	14
34	Late-Stage Modification of Electronic Properties of Antiaromatic and Diradicaloid Indeno[1,2-b]fluorene Analogues via Sulfur Oxidation. <i>Journal of Organic Chemistry</i> , 2020, 85, 10846-10857.	1.7	21
35	Monoradicals and Diradicals of Dibenzofluoreno[3,2-b]fluorene Isomers: Mechanisms of Electronic Delocalization. <i>Journal of the American Chemical Society</i> , 2020, 142, 20444-20455.	6.6	43
36	A Mononuclear and High-Spin Tetrahedral Ti ^{II} Complex. <i>Inorganic Chemistry</i> , 2020, 59, 17834-17850.	1.9	12

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37	Mechanistic Study of Isotactic Poly(propylene oxide) Synthesis using a Tethered Bimetallic Chromium Salen Catalyst. <i>ACS Catalysis</i> , 2020, 10, 8960-8967.	5.5	13
38	The influences of carbon donor ligands on biomimetic multi-iron complexes for N ₂ reduction. <i>Chemical Science</i> , 2020, 11, 12710-12720.	3.7	17
39	Scrutinizing "Ligand Bands" via Polarized Single-Crystal X-ray Absorption Spectra of Copper(I) and Copper(II) Bis-2,2'-bipyridine Species. <i>Inorganic Chemistry</i> , 2020, 59, 13416-13426.	1.9	5
40	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.	6.6	25
41	Oxyaapa: A Picolinate-Based Ligand with Five Oxygen Donors that Strongly Chelates Lanthanides. <i>Inorganic Chemistry</i> , 2020, 59, 5116-5132.	1.9	14
42	Unrealized concepts of masked alkylidenes in (PNP)FeXY systems and alternative approaches to LnXmFe(IV)=CHR. <i>Polyhedron</i> , 2020, 181, 114460.	1.0	6
43	Probing the electronic and mechanistic roles of the 1/4-sulfur atom in a synthetic Cu _Z model system. <i>Chemical Science</i> , 2020, 11, 3441-3447.	3.7	8
44	A hemilabile manganese(iii)-phenol complex and its coordination induced O-H bond weakening. <i>Dalton Transactions</i> , 2020, 49, 16217-16225.	1.6	3
45	Carbonylative, Catalytic Deoxygenation of 2,3-Disubstituted Epoxides with Inversion of Stereochemistry: An Alternative Alkene Isomerization Method. <i>Journal of the American Chemical Society</i> , 2020, 142, 8029-8035.	6.6	19
46	The 4-Electron Cleavage of a N=N Double Bond by a Trimetallic TiNi ₂ Complex. <i>Inorganic Chemistry</i> , 2019, 58, 11762-11772.	1.9	11
47	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.	6.6	36
48	Disodium Salts of Pseudoephedrine-Derived Myers Enolates: Stereoselectivity and Mechanism of Alkylation. <i>Journal of the American Chemical Society</i> , 2019, 141, 16865-16876.	6.6	15
49	The Myth of d ⁸ Copper(III). <i>Journal of the American Chemical Society</i> , 2019, 141, 18508-18520.	6.6	139
50	Î ² -Amino Phosphine Mn Catalysts for 1,4-Transfer Hydrogenation of Chalcones and Allylic Alcohol Isomerization. <i>Organometallics</i> , 2019, 38, 4387-4391.	1.1	22
51	Synthesis of 2 <i>H</i> -Chromenes via Hydrazine-Catalyzed Ring-Closing Carbonyl-Olefin Metathesis. <i>ACS Catalysis</i> , 2019, 9, 9259-9264.	5.5	31
52	Physical properties, ligand substitution reactions, and biological activity of Co(iii)-Schiff base complexes. <i>Dalton Transactions</i> , 2019, 48, 5987-6002.	1.6	21
53	Resurgence of Organomanganese(I) Chemistry. Bidentate Manganese(I) Phosphine-Phenol(ate) Complexes. <i>Inorganic Chemistry</i> , 2019, 58, 10527-10535.	1.9	8
54	Switchable living nickel(ii)-diimine catalyst for ethylene polymerisation. <i>Chemical Communications</i> , 2019, 55, 7607-7610.	2.2	43

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55	Highly conductive and chemically stable alkaline anion exchange membranes via ROMP of <i>trans</i> -cyclooctene derivatives. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 9729-9734.	3.3	118
56	Electronically varied manganese tris-arylacetamide tripodal complexes. Journal of Coordination Chemistry, 2019, 72, 1287-1297.	0.8	2
57	Pseudoephedrine-Derived Myers Enolates: Structures and Influence of Lithium Chloride on Reactivity and Mechanism. Journal of the American Chemical Society, 2019, 141, 5444-5460.	6.6	12
58	Oxidative Additions to Ti(IV) in [(dadi) ⁴ Ti(IV)(THF) Involve Carbon-Carbon Bond Formation and Redox-Noninnocent Behavior. Organometallics, 2019, 38, 1502-1515.	1.1	7
59	An Approach to Carbide-Centered Cluster Complexes. Inorganic Chemistry, 2019, 58, 4812-4819.	1.9	14
60	Combinatorial Synthesis to Identify a Potent, Necrosis-Inducing Rhenium Anticancer Agent. Inorganic Chemistry, 2019, 58, 3895-3909.	1.9	43
61	Diastereo- and Enantioselective Formal [3 + 2] Cycloaddition of Cyclopropyl Ketones and Alkenes via Ti-Catalyzed Radical Redox Relay. Journal of the American Chemical Society, 2018, 140, 3514-3517.	6.6	107
62	Photoactivated in Vitro Anticancer Activity of Rhenium(I) Tricarbonyl Complexes Bearing Water-Soluble Phosphines. Inorganic Chemistry, 2018, 57, 1311-1331.	1.9	121
63	Dispersion forces play a role in (Me) ₂ IPr)Fe(η ⁵ Ad)R ₂ (Ad = adamantyl; R =) Dalton Transactions, 2018, 47, 6025-6030.	1.6	15
64	Structural diversity in pyridine and polypyridine adducts of ring slipped manganocene: correlating ligand steric bulk with quantified deviation from ideal hapticity. Dalton Transactions, 2018, 47, 5171-5180.	1.6	5
65	Rapid Dissolution of BaSO ₄ by Macropa, an 18-Membered Macrocyclic with High Affinity for Ba ²⁺ . Journal of the American Chemical Society, 2018, 140, 17071-17078.	6.6	45
66	Complexes of [(dadi)Ti(L/X)] ^m That Reveal Redox Non-Innocence and a Stepwise Carbene Insertion into a Carbon-Carbon Bond. Organometallics, 2018, 37, 3488-3501.	1.1	13
67	The Hydrazine-O ₂ Redox Couple as a Platform for Organocatalytic Oxidation: Benzo[c]cinnoline-Catalyzed Oxidation of Alkyl Halides to Aldehydes. Angewandte Chemie - International Edition, 2018, 57, 12494-12498.	7.2	14
68	The Hydrazine-O ₂ Redox Couple as a Platform for Organocatalytic Oxidation: Benzo[c]cinnoline-Catalyzed Oxidation of Alkyl Halides to Aldehydes. Angewandte Chemie, 2018, 130, 12674-12678.	1.6	3
69	Bisphosphine phenol and phenolate complexes of Mn(ⁱ): manganese(ⁱ) catalyzed Tishchenko reaction. Dalton Transactions, 2018, 47, 12652-12655.	1.6	14
70	Deciphering the mechanism of O ₂ reduction with electronically tunable non-heme iron enzyme model complexes. Chemical Science, 2018, 9, 5773-5780.	3.7	9
71	Synthetic Methods for the Preparation of a Functional Analogue of Ru360, a Potent Inhibitor of Mitochondrial Calcium Uptake. Inorganic Chemistry, 2017, 56, 3123-3126.	1.9	26
72	X-ray Spectroscopic Interrogation of Transition-Metal-Mediated Homogeneous Catalysis: Primer and Case Studies. ACS Catalysis, 2017, 7, 1776-1791.	5.5	55

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73	Redox non-innocence permits catalytic nitrene carbonylation by (dad)Ti ^{IV} NAd (Ad = adamantyl). <i>Chemical Science</i> , 2017, 8, 3410-3418.	3.7	39
74	Bis(thiosemicarbazone) Complexes of Cobalt(III). Synthesis, Characterization, and Anticancer Potential. <i>Inorganic Chemistry</i> , 2017, 56, 6609-6623.	1.9	82
75	High- and low-spin chelate complexes of iron featuring $\text{Ir}^{\text{II}}\text{-C,X-CH}_2\text{C}_6\text{H}_4\text{X}$ ($\text{X} = \text{NMe}_2, \text{PMe}_2, \text{PPh}_2$) and $\text{Ir}^{\text{II}}\text{-C,P-CH}_2\text{PMe}_2$ ligands. <i>Journal of Organometallic Chemistry</i> , 2017, 847, 132-139.	0.8	1
76	An Eighteen-Membered Macrocyclic Ligand for Actinium-225 Targeted Alpha Therapy. <i>Angewandte Chemie</i> , 2017, 129, 14904-14909.	1.6	9
77	Dinuclear nitrido-bridged ruthenium complexes bearing diimine ligands. <i>Dalton Transactions</i> , 2017, 46, 14256-14263.	1.6	8
78	In Vitro Anticancer Activity and in Vivo Biodistribution of Rhenium(I) Tricarbonyl Aqua Complexes. <i>Journal of the American Chemical Society</i> , 2017, 139, 14302-14314.	6.6	147
79	An Eighteen-Membered Macrocyclic Ligand for Actinium-225 Targeted Alpha Therapy. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14712-14717.	7.2	163
80	Radical Redox-Relay Catalysis: Formal [3+2] Cycloaddition of <i>N</i> -Acylaziridines and Alkenes. <i>Journal of the American Chemical Society</i> , 2017, 139, 12141-12144.	6.6	120
81	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.	6.6	53
82	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.	6.6	105
83	Rare Examples of Fe(IV) Alkyl-Imide Migratory Insertions: Impact of Fe-C Covalency in $(\text{Me})_2\text{Fe}(\text{NAd})\text{R}_2$ ($\text{R} = \text{neo-Pe}, \text{1-nor}$). <i>Journal of the American Chemical Society</i> , 2017, 139, 12145-12148.	6.6	42
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91	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, 1922-1931.	6.6	99
92	Neutral Fe(IV) alkylidenes, including some that bind dinitrogen. <i>Chemical Communications</i> , 2016, 52, 3891-3894.	2.2	33
93	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, 3660-3669.	1.9	15
94	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, 205-214.	1.9	32
95	Facile Si-H bond activation and hydrosilylation catalysis mediated by a nickel-borane complex. <i>Chemical Science</i> , 2014, 5, 590-597.	3.7	128
96	Insertion Reactions and Catalytic Hydrophosphination by Triamidoamine-Supported Zirconium Complexes. <i>Organometallics</i> , 2010, 29, 2557-2565.	1.1	75
97	Chiral-at-metal tetrahydrosalen complexes of resolved titanium(IV) sec-butoxides: Ligand wrapping and multiple asymmetric catalytic induction. <i>Inorganica Chimica Acta</i> , 2009, 362, 3134-3146.	1.2	9
98	General Preparation of $(N_3)ZrX(N_3)$ $(N_3 = Et, iPr, nBu, Ph)$ $(N(CH_2)_2O)_2$ $(N(CH_2)_2O)_2$ Hydride Surrogate. <i>Organometallics</i> , 2009, 28, 573-581.	1.1	37
99	Synthesis and optical activity analysis of chiral titanium(IV) sec-butoxide and its group IV analogues. <i>Tetrahedron: Asymmetry</i> , 2008, 19, 543-548.	1.8	11
100	Mechanistic variety in zirconium-catalyzed bond-forming reaction of arsines. <i>Dalton Transactions</i> , 2008, , 4488.	1.6	54
101	$\{N,N\}$ -Bis[2-(trimethylsilylamino)ethyl]- N,N' -(trimethylsilyl)ethane-1,2-diaminato($3\text{-}iPr_2$) 4 $\{N,N\}$ <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2008, 64, m477-m477.	0.2	4
102	Insertion of benzyl isocyanide into a Zr-P bond and rearrangement. Atom-economical synthesis of a phosphalkene. <i>Chemical Communications</i> , 2007, , 4172.	2.2	29
103	Zirconium-Catalyzed Heterodehydrocoupling of Primary Phosphines with Silanes and Germanes. <i>Inorganic Chemistry</i> , 2007, 46, 6855-6857.	1.9	58
104	Lowering the Symmetry of Cofacial Porphyrin Prisms for Selective Oxygen Reduction Electrocatalysis. <i>Inorganic Chemistry</i> , 0, , .	1.9	2