

Samantha N Macmillan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

97
papers

1,996
citations

26
h-index

41
g-index

106
ext. papers

2,500
ext. citations

7.9
avg, IF

5.38
L-index

#	Paper	IF	Citations
97	Iron Complexes of a Proton-Responsive SCS Pincer Ligand with a Sensitive Electronic Structure.. <i>Inorganic Chemistry</i> , 2022 ,	5.1	2
96	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	2.7	0
95	Synthesis of Aminosilane Chemical Vapor Deposition Precursors and Polycarbosilazanes through Manganese-Catalyzed Si-H Dehydrocoupling. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 4218-4226	8.3	1
94	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	3.8	0
93	Activation of H ₂ with Dinuclear Manganese(I)-Phosphido Complexes. <i>Organometallics</i> , 2022 , 41, 60-66	3.8	0
92	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	3.8	0
91	Propellanes as Drop-In ROMP Initiators. <i>Organometallics</i> , 2021 , 40, 3389-3396	3.8	1
90	Tuning the Kinetic Inertness of Bi Complexes: The Impact of Donor Atoms on Diaza-18-Crown-6 Ligands as Chelators for Bi Targeted Alpha Therapy. <i>Inorganic Chemistry</i> , 2021 , 60, 9199-9211	5.1	7
89	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	16.4	6
88	An Isolable Mononuclear Palladium(II) Amido Complex. <i>Journal of the American Chemical Society</i> , 2021 , 143, 10751-10759	16.4	3
87	A Facially Coordinating Tris-Benzimidazole Ligand for Nonheme Iron Enzyme Models. <i>European Journal of Inorganic Chemistry</i> , 2021 , 2021, 654-657	2.3	1
86	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	1.6	1
85	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	3.6	
84	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
83	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	3.6	0
82	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	16.4	3
81	Isolation and X-ray Crystal Structure of an Electrogenenerated TEMPO-N Charge-Transfer Complex. <i>Organic Letters</i> , 2021 , 23, 454-458	6.2	4

80	Chelating the Alpha Therapy Radionuclides Ac and Bi with 18-Membered Macrocyclic Ligands MacroDipa and Py-MacroDipa.. <i>Inorganic Chemistry</i> , 2021 ,	5.1	4
79	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
78	Oxyaapa: A Picolinate-Based Ligand with Five Oxygen Donors that Strongly Chelates Lanthanides. <i>Inorganic Chemistry</i> , 2020 , 59, 5116-5132	5.1	9
77	Unrealized concepts of masked alkylidenes in (PNP)FeXY systems and alternative approaches to LnXmFe(IV)=CHR. <i>Polyhedron</i> , 2020 , 181, 114460	2.7	3
76	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
75	A hemilabile manganese(I)-phenol complex and its coordination induced O-H bond weakening. <i>Dalton Transactions</i> , 2020 , 49, 16217-16225	4.3	2
74	N O Reductase Activity of a [Cu S] Cluster in the 4Cu 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	16.4	9
73	N2O Reductase Activity of a [Cu4S] Cluster in the 4CuI Redox State Modulated by Hydrogen Bond Donors and Proton Relays in the Secondary Coordination Sphere. <i>Angewandte Chemie</i> , 2020 , 132, 637-641	2.6	1
72	Molecule Isomerism Modulates the Diradical Properties of Stable Singlet Diradicaloids. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1548-1555	16.4	37
71	Synthesis, characterization, and biological properties of rhenium(I) tricarbonyl complexes bearing nitrogen-donor ligands. <i>Journal of Organometallic Chemistry</i> , 2020 , 907, 121064	2.3	14
70	Catalyst-Controlled Regioselective Carbonylation of Isobutylene Oxide to Pivalolactone. <i>ACS Catalysis</i> , 2020 , 10, 12537-12543	13.1	3
69	Planar-Locked Ru-PNN Catalysts in 1-Phenylethanol Dehydrogenation. <i>Organometallics</i> , 2020 , 39, 3628-3644	3.6	6
68	Macrocyclic Ligands with an Unprecedented Size-Selectivity Pattern for the Lanthanide Ions. <i>Journal of the American Chemical Society</i> , 2020 , 142, 13500-13506	16.4	16
67	Synthesis of 1,2-Dihydroquinolines via Hydrazine-Catalyzed Ring-Closing Carbonyl-Olefin Metathesis. <i>Organic Letters</i> , 2020 , 22, 6026-6030	6.2	5
66	Late-Stage Modification of Electronic Properties of Antiaromatic and Diradicaloid Indeno[1,2-]fluorene Analogues via Sulfur Oxidation. <i>Journal of Organic Chemistry</i> , 2020 , 85, 10846-10857	4.2	12
65	Monoradicals and Diradicals of Dibenzofluoreno[3,2-]fluorene Isomers: Mechanisms of Electronic Delocalization. <i>Journal of the American Chemical Society</i> , 2020 ,	16.4	10
64	A Mononuclear and High-Spin Tetrahedral Ti Complex. <i>Inorganic Chemistry</i> , 2020 , 59, 17834-17850	5.1	4
63	Mechanistic Study of Isotactic Poly(propylene oxide) Synthesis using a Tethered Bimetallic Chromium Salen Catalyst. <i>ACS Catalysis</i> , 2020 , 10, 8960-8967	13.1	5

62	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
61	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	5.1	3
60	A robust nickel catalyst with an unsymmetrical propyl-bridged diphosphine ligand for catalyst-transfer polymerization. <i>Polymer Journal</i> , 2020 , 52, 83-92	2.7	5
59	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	16.4	9
58	Synthesis of 2-Chromenes via Hydrazine-Catalyzed Ring-Closing Carbonyl-Olefin Metathesis. <i>ACS Catalysis</i> , 2019 , 9, 9259-9264	13.1	19
57	Physical properties, ligand substitution reactions, and biological activity of Co(III)-Schiff base complexes. <i>Dalton Transactions</i> , 2019 , 48, 5987-6002	4.3	10
56	Resurgence of Organomanganese(I) Chemistry. Bidentate Manganese(I) Phosphine-Phenol(ate) Complexes. <i>Inorganic Chemistry</i> , 2019 , 58, 10527-10535	5.1	5
55	Switchable living nickel(II) diimine catalyst for ethylene polymerisation. <i>Chemical Communications</i> , 2019 , 55, 7607-7610	5.8	27
54	Highly conductive and chemically stable alkaline anion exchange membranes via ROMP of α -cyclooctene derivatives. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 9729-9734	11.5	71
53	Electronically varied manganese tris-arylacetamide tripodal complexes. <i>Journal of Coordination Chemistry</i> , 2019 , 72, 1287-1297	1.6	2
52	Pseudoephedrine-Derived Myers Enolates: Structures and Influence of Lithium Chloride on Reactivity and Mechanism. <i>Journal of the American Chemical Society</i> , 2019 , 141, 5444-5460	16.4	8
51	Oxidative Additions to Ti(IV) in [(dadi) ₄ Ti(IV)(THF)] Involve Carbon-Carbon Bond Formation and Redox-Noninnocent Behavior. <i>Organometallics</i> , 2019 , 38, 1502-1515	3.8	2
50	An Approach to Carbide-Centered Cluster Complexes. <i>Inorganic Chemistry</i> , 2019 , 58, 4812-4819	5.1	11
49	Combinatorial Synthesis to Identify a Potent, Necrosis-Inducing Rhenium Anticancer Agent. <i>Inorganic Chemistry</i> , 2019 , 58, 3895-3909	5.1	32
48	The 4-Electron Cleavage of a N=N Double Bond by a Trimetallic TiNi Complex. <i>Inorganic Chemistry</i> , 2019 , 58, 11762-11772	5.1	6
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	16.4	28
46	Disodium Salts of Pseudoephedrine-Derived Myers Enolates: Stereoselectivity and Mechanism of Alkylation. <i>Journal of the American Chemical Society</i> , 2019 , 141, 16865-16876	16.4	4
45	The Myth of d Copper(III). <i>Journal of the American Chemical Society</i> , 2019 , 141, 18508-18520	16.4	61

26	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	16.4	109
25	An Eighteen-Membered Macrocyclic Ligand for Actinium-225 Targeted Alpha Therapy. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14712-14717	16.4	105
24	Radical Redox-Relay Catalysis: Formal [3+2] Cycloaddition of N-Acylaziridines and Alkenes. <i>Journal of the American Chemical Society</i> , 2017 , 139, 12141-12144	16.4	88
23	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
22	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
21	Rare Examples of Fe(IV) Alkyl-Imide Migratory Insertions: Impact of Fe-C Covalency in (MeIPr)Fe(?NAd)R (R = Pe, 1-nor). <i>Journal of the American Chemical Society</i> , 2017 , 139, 12145-12148	16.4	32
20	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
19	Reprint of "Anticancer activity of hydroxy- and sulfonamide-azobenzene platinum(II) complexes in cisplatin-resistant ovarian cancer cells". <i>Journal of Inorganic Biochemistry</i> , 2017 , 177, 335-343	4.2	5
18	Synthesis and Characterization of 5-Coordinate Tungsten Hydride Anions: [(tBu ₃ SiNH)(tBu ₃ SiN=)HWR]M. <i>Israel Journal of Chemistry</i> , 2017 , 57, 982-989	3.4	
17	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
16	Anticancer activity of hydroxy- and sulfonamide-azobenzene platinum(II) complexes in cisplatin-resistant ovarian cancer cells. <i>Journal of Inorganic Biochemistry</i> , 2017 , 174, 102-110	4.2	17
15	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
14	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
13	Neutral Fe(IV) alkylidenes, including some that bind dinitrogen. <i>Chemical Communications</i> , 2016 , 52, 3891-4	3.4	28
12	Fe(IV) alkylidenes are actually Fe(II), and a related octahedral Fe(II) alkylidene is a conjugated vinyl complex. <i>Polyhedron</i> , 2016 , 116, 47-56	2.7	16
11	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
10	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
9	Facile Si-H bond activation and hydrosilylation catalysis mediated by a nickel borane complex. <i>Chemical Science</i> , 2014 , 5, 590-597	9.4	114

8	Insertion Reactions and Catalytic Hydrophosphination by Triamidoamine-Supported Zirconium Complexes. <i>Organometallics</i> , 2010 , 29, 2557-2565	3.8	66
7	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	2.7	6
6	General Preparation of (N ₃ N)ZrX (N ₃ N = N(CH ₂ CH ₂ NSiMe ₃) ₃) Complexes from a Hydride Surrogate. <i>Organometallics</i> , 2009 , 28, 573-581	3.8	33
5	Mechanistic variety in zirconium-catalyzed bond-forming reaction of arsines. <i>Dalton Transactions</i> , 2008 , 4488-98	4.3	50
4	Synthesis and optical activity analysis of chiral titanium(IV) sec-butoxide and its group IV analogues. <i>Tetrahedron: Asymmetry</i> , 2008 , 19, 543-548		10
3	{N,N-Bis[2-(trimethyl-silylamino)eth-yl]-N'-(trimethyl-silyl)ethane-1,2-diamin-ato(3-)- η^1]methyl-zirconium(IV). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2008 , 64, m477		4
2	Insertion of benzyl isocyanide into a Zr-P bond and rearrangement. Atom-economical synthesis of a phosphalkene. <i>Chemical Communications</i> , 2007 , 4172-4	5.8	27
1	Zirconium-catalyzed heterodehydrocoupling of primary phosphines with silanes and germanes. <i>Inorganic Chemistry</i> , 2007 , 46, 6855-7	5.1	52