Samantha N Macmillan

List of Publications by Citations

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	Facile Si–H bond activation and hydrosilylation catalysis mediated by a nickel–borane complex. *Chemical Science*, **2014**, 5, 590-597	9.4	114
96	In Vitro Anticancer Activity and in Vivo Biodistribution of Rhenium(I) Tricarbonyl Aqua Complexes. *Journal of the American Chemical Society*, **2017**, 139, 14302-14314	16.4	109
95	An Eighteen-Membered Macrocyclic Ligand for Actinium-225 Targeted Alpha Therapy. *Angewandte Chemie - International Edition*, **2017**, 56, 14712-14717	16.4	105
94	Photoactivated in Vitro Anticancer Activity of Rhenium(I) Tricarbonyl Complexes Bearing Water-Soluble Phosphines. *Inorganic Chemistry*, **2018**, 57, 1311-1331	5.1	94
93	Radical Redox-Relay Catalysis: Formal [3+2] Cycloaddition of N-Acylaziridines and Alkenes. *Journal of the American Chemical Society*, **2017**, 139, 12141-12144	16.4	88
92	Rh2(II,III) Catalysts with Chelating Carboxylate and Carboxamidate Supports: Electronic Structure and Nitrene Transfer Reactivity. *Journal of the American Chemical Society*, **2016**, 138, 2327-41	16.4	82
91	Direct Comparison of C-H Bond Amination Efficacy through Manipulation of Nitrogen-Valence Centered Redox: Imido versus Iminyl. *Journal of the American Chemical Society*, **2017**, 139, 14757-14766	16.4	78
90	Highly conductive and chemically stable alkaline anion exchange membranes via ROMP of -cyclooctene derivatives. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 9729-9734	11.5	71
89	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	16.4	69
88	Insertion Reactions and Catalytic Hydrophosphination by Triamidoamine-Supported Zirconium Complexes. *Organometallics*, **2010**, 29, 2557-2565	3.8	66
87	Spectroscopic Evidence for a 3d(10) Ground State Electronic Configuration and Ligand Field Inversion in [Cu(CF3)4](1-). *Journal of the American Chemical Society*, **2016**, 138, 1922-31	16.4	63
86	The Myth of d Copper(III). *Journal of the American Chemical Society*, **2019**, 141, 18508-18520	16.4	61
85	Bis(thiosemicarbazone) Complexes of Cobalt(III). Synthesis, Characterization, and Anticancer Potential. *Inorganic Chemistry*, **2017**, 56, 6609-6623	5.1	56
84	Zirconium-catalyzed heterodehydrocoupling of primary phosphines with silanes and germanes. *Inorganic Chemistry*, **2007**, 46, 6855-7	5.1	52
83	Mechanistic variety in zirconium-catalyzed bond-forming reaction of arsines. *Dalton Transactions*, **2008**, 4488-98	4.3	50
82	X-ray Spectroscopic Interrogation of Transition-Metal-Mediated Homogeneous Catalysis: Primer and Case Studies. *ACS Catalysis*, **2017**, 7, 1776-1791	13.1	47
81	Electronic Structural Analysis of Copper(II)-TEMPO/ABNO Complexes Provides Evidence for Copper(I)-Oxoammonium Character. *Journal of the American Chemical Society*, **2017**, 139, 13507-13517	16.4	38

80	Molecule Isomerism Modulates the Diradical Properties of Stable Singlet Diradicaloids. *Journal of the American Chemical Society*, **2020**, 142, 1548-1555	16.4	37
79	General Preparation of (N3N)ZrX (N3N = N(CH2CH2NSiMe3)33)Complexes from a Hydride Surrogate. *Organometallics*, **2009**, 28, 573-581	3.8	33
78	Combinatorial Synthesis to Identify a Potent, Necrosis-Inducing Rhenium Anticancer Agent. *Inorganic Chemistry*, **2019**, 58, 3895-3909	5.1	32
77	Rare Examples of Fe(IV) Alkyl-Imide Migratory Insertions: Impact of Fe-C Covalency in (MeIPr)Fe(?NAd)R (R = Pe, 1-nor). *Journal of the American Chemical Society*, **2017**, 139, 12145-12148	16.4	32
76	Neutral Fe(IV) alkylidenes, including some that bind dinitrogen. *Chemical Communications*, **2016**, 52, 3891-4	5.8	28
75	Activation of Dioxygen by a Mononuclear Nonheme Iron Complex: Sequential Peroxo, Oxo, and Hydroxo Intermediates. *Journal of the American Chemical Society*, **2019**, 141, 17533-17547	16.4	28
74	Switchable living nickel(ii) diimine catalyst for ethylene polymerisation. *Chemical Communications*, **2019**, 55, 7607-7610	5.8	27
73	Insertion of benzyl isocyanide into a Zr-P bond and rearrangement. Atom-economical synthesis of a phosphaalkene. *Chemical Communications*, **2007**, 4172-4	5.8	27
72	Rapid Dissolution of BaSO by Macropa, an 18-Membered Macrocycle with High Affinity for Ba. *Journal of the American Chemical Society*, **2018**, 140, 17071-17078	16.4	26
71	Redox non-innocence permits catalytic nitrene carbonylation by (dadi)Ti	9.4	25
70	Ligand-sensitive but not ligand-diagnostic: evaluating Cr valence-to-core X-ray emission spectroscopy as a probe of inner-sphere coordination. *Inorganic Chemistry*, **2015**, 54, 205-14	5.1	25
69	Synthesis of 2-Chromenes via Hydrazine-Catalyzed Ring-Closing Carbonyl-Olefin Metathesis. *ACS Catalysis*, **2019**, 9, 9259-9264	13.1	19
68	Crystalline Coordination Networks of Zero-Valent Metal Centers: Formation of a 3-Dimensional Ni(0) Framework with m-Terphenyl Diisocyanides. *Journal of the American Chemical Society*, **2017**, 139, 17257-17260	16.4	17
67	Anticancer activity of hydroxy- and sulfonamide-azobenzene platinum(II) complexes in cisplatin-resistant ovarian cancer cells. *Journal of Inorganic Biochemistry*, **2017**, 174, 102-110	4.2	17
66	Macrocyclic Ligands with an Unprecedented Size-Selectivity Pattern for the Lanthanide Ions. *Journal of the American Chemical Society*, **2020**, 142, 13500-13506	16.4	16
65	Fe(IV) alkylidenes are actually Fe(II), and a related octahedral Fe(II) alkylidene is a conjugated vinyl complex. *Polyhedron*, **2016**, 116, 47-56	2.7	16
64	Synthetic Methods for the Preparation of a Functional Analogue of Ru360, a Potent Inhibitor of Mitochondrial Calcium Uptake. *Inorganic Chemistry*, **2017**, 56, 3123-3126	5.1	15
63	Synthesis, characterization, and biological properties of rhenium(I) tricarbonyl complexes bearing nitrogen-donor ligands. *Journal of Organometallic Chemistry*, **2020**, 907, 121064	2.3	14

62	Bisphosphine phenol and phenolate complexes of Mn(i): manganese(i) catalyzed Tishchenko reaction. *Dalton Transactions*, **2018**, 47, 12652-12655	4.3	13
61	Stabilizing coordinated radicals via metal-ligand covalency: a structural, spectroscopic, and theoretical investigation of group 9 tris(dithiolene) complexes. *Inorganic Chemistry*, **2015**, 54, 3660-9	5.1	12
60	Late-Stage Modification of Electronic Properties of Antiaromatic and Diradicaloid Indeno[1,2-]fluorene Analogues via Sulfur Oxidation. *Journal of Organic Chemistry*, **2020**, 85, 10846-10857	4.2	12
59	An Approach to Carbide-Centered Cluster Complexes. *Inorganic Chemistry*, **2019**, 58, 4812-4819	5.1	11
58	Structure, Spectroscopy, and Reactivity of a Mononuclear Copper Hydroxide Complex in Three Molecular Oxidation States. *Journal of the American Chemical Society*, **2020**, 142, 12265-12276	16.4	11
57	Dispersion forces play a role in (MeIPr)Fe([double bond, length as m-dash]NAd)R (Ad = adamantyl; R = Pe, 1-nor) insertions and Fe-R bond dissociation enthalpies (BDEs). *Dalton Transactions*, **2018**, 47, 6025-6030	4.3	11
56	Amino Phosphine Mn Catalysts for 1,4-Transfer Hydrogenation of Chalcones and Allylic Alcohol Isomerization. *Organometallics*, **2019**, 38, 4387-4391	3.8	11
55	Physical properties, ligand substitution reactions, and biological activity of Co(iii)-Schiff base complexes. *Dalton Transactions*, **2019**, 48, 5987-6002	4.3	10
54	The Hydrazine-O 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	16.4	10
53	Synthesis and optical activity analysis of chiral titanium(IV) sec-butoxide and its group IV analogues. *Tetrahedron: Asymmetry*, **2008**, 19, 543-548		10
52	Monoradicals and Diradicals of Dibenzofluoreno[3,2-]fluorene Isomers: Mechanisms of Electronic Delocalization. *Journal of the American Chemical Society*, **2020**,	16.4	10
51	Oxyaapa: A Picolinate-Based Ligand with Five Oxygen Donors that Strongly Chelates Lanthanides. *Inorganic Chemistry*, **2020**, 59, 5116-5132	5.1	9
50	Expanding the Scope of Ligand Substitution from [M(SCPh] (M = Ni, Pd, Pt) To Afford New Heteroleptic Dithiolene Complexes. *Inorganic Chemistry*, **2017**, 56, 10257-10267	5.1	9
49	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. *Angewandte Chemie - International Edition*, **2020**, 59, 627-631	16.4	9
48	Carbonylative, Catalytic Deoxygenation of 2,3-Disubstituted Epoxides with Inversion of Stereochemistry: An Alternative Alkene Isomerization Method. *Journal of the American Chemical Society*, **2020**, 142, 8029-8035	16.4	9
47	Pseudophedrine-Derived Myers Enolates: Structures and Influence of Lithium Chloride on Reactivity and Mechanism. *Journal of the American Chemical Society*, **2019**, 141, 5444-5460	16.4	8
46	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	3.8	7
45	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. *Inorganic Chemistry*, **2021**, 60, 9199-9211	5.1	7

44	Deciphering the mechanism of O reduction with electronically tunable non-heme iron enzyme model complexes. *Chemical Science*, **2018**, 9, 5773-5780	9.4	6
43	The 4-Electron Cleavage of a N?N Double Bond by a Trimetallic TiNi Complex. *Inorganic Chemistry*, **2019**, 58, 11762-11772	5.1	6
42	Chiral-at-metal tetrahydrosalen complexes of resolved titanium(IV) sec-butoxides: Ligand wrapping and multiple asymmetric catalytic induction. *Inorganica Chimica Acta*, **2009**, 362, 3134-3146	2.7	6
41	Planar-Locked Ru-PNN Catalysts in 1-Phenylethanol Dehydrogenation. *Organometallics*, **2020**, 39, 3628-3644	3.8	6
40	The influences of carbon donor ligands on biomimetic multi-iron complexes for N reduction. *Chemical Science*, **2020**, 11, 12710-12720	9.4	6
39	Py-Macrodipa: A Janus Chelator Capable of Binding Medicinally Relevant Rare-Earth Radiometals of Disparate Sizes. *Journal of the American Chemical Society*, **2021**, 143, 10429-10440	16.4	6
38	An Eighteen-Membered Macrocyclic Ligand for Actinium-225 Targeted Alpha Therapy. *Angewandte Chemie*, **2017**, 129, 14904-14909	3.6	5
37	Resurgence of Organomanganese(I) Chemistry. Bidentate Manganese(I) Phosphine-Phenol(ate) Complexes. *Inorganic Chemistry*, **2019**, 58, 10527-10535	5.1	5
36	Reprint of "Anticancer activity of hydroxy- and sulfonamide-azobenzene platinum(II) complexes in cisplatin-resistant ovarian cancer cells". *Journal of Inorganic Biochemistry*, **2017**, 177, 335-343	4.2	5
35	Synthesis of 1,2-Dihydroquinolines via Hydrazine-Catalyzed Ring-Closing Carbonyl-Olefin Metathesis. *Organic Letters*, **2020**, 22, 6026-6030	6.2	5
34	Mechanistic Study of Isotactic Poly(propylene oxide) Synthesis using a Tethered Bimetallic Chromium Salen Catalyst. *ACS Catalysis*, **2020**, 10, 8960-8967	13.1	5
33	A robust nickel catalyst with an unsymmetrical propyl-bridged diphosphine ligand for catalyst-transfer polymerization. *Polymer Journal*, **2020**, 52, 83-92	2.7	5
32	A Nonheme Mononuclear {FeNO} Complex that Produces N O in the Absence of an Exogenous Reductant. *Angewandte Chemie - International Edition*, **2021**, 60, 21558-21564	16.4	5
31	Dinuclear nitrido-bridged ruthenium complexes bearing diimine ligands. *Dalton Transactions*, **2017**, 46, 14256-14263	4.3	4
30	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	4.3	4
29	Disodium Salts of Pseudoephedrine-Derived Myers Enolates: Stereoselectivity and Mechanism of Alkylation. *Journal of the American Chemical Society*, **2019**, 141, 16865-16876	16.4	4
28	{N,N-Bis[2-(trimethyl-silylamino)eth-yl]-N'-(trimethyl-silyl)ethane-1,2-diamin-ato(3-)-κ^{4}N}methyl-zirconium(IV). *Acta Crystallographica Section E: Structure Reports Online*, **2008**, 64, m477		4
27	A Mononuclear and High-Spin Tetrahedral Ti Complex. *Inorganic Chemistry*, **2020**, 59, 17834-17850	5.1	4

26	Isolation and X-ray Crystal Structure of an Electrogenerated TEMPO-N Charge-Transfer Complex. *Organic Letters*, **2021**, 23, 454-458	6.2	4
25	Chelating the Alpha Therapy Radionuclides Ac and Bi with 18-Membered Macrocyclic Ligands Macrodipa and Py-Macrodipa.. *Inorganic Chemistry*, **2021**,	5.1	4
24	Unrealized concepts of masked alkylidenes in (PNP)FeXY systems and alternative approaches to LnXmFe(IV)=CHR. *Polyhedron*, **2020**, 181, 114460	2.7	3
23	Probing the electronic and mechanistic roles of the □sulfur atom in a synthetic Cu model system. *Chemical Science*, **2020**, 11, 3441-3447	9.4	3
22	The Hydrazine□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	3.6	3
21	Catalyst-Controlled Regioselective Carbonylation of Isobutylene Oxide to Pivalolactone. *ACS Catalysis*, **2020**, 10, 12537-12543	13.1	3
20	Scrutinizing "Ligand Bands" via Polarized Single-Crystal X-ray Absorption Spectra of Copper(I) and Copper(II) Bis-2,2'-bipyridine Species. *Inorganic Chemistry*, **2020**, 59, 13416-13426	5.1	3
19	An Isolable Mononuclear Palladium(I) Amido Complex. *Journal of the American Chemical Society*, **2021**, 143, 10751-10759	16.4	3
18	A Tale of Two Isomers: Enhanced Antiaromaticity/Diradical Character versus Deleterious Ring-Opening of Benzofuran-fused s-Indacenes and Dicyclopenta[b,g]naphthalenes. *Angewandte Chemie - International Edition*, **2021**, 60, 22385-22392	16.4	3
17	Electronically varied manganese tris-arylacetamide tripodal complexes. *Journal of Coordination Chemistry*, **2019**, 72, 1287-1297	1.6	2
16	Oxidative Additions to Ti(IV) in [(dadi)4]TiIV(THF) Involve Carbon□Carbon Bond Formation and Redox-Noninnocent Behavior. *Organometallics*, **2019**, 38, 1502-1515	3.8	2
15	A hemilabile manganese(I)-phenol complex and its coordination induced O-H bond weakening. *Dalton Transactions*, **2020**, 49, 16217-16225	4.3	2
14	Iron Complexes of a Proton-Responsive SCS Pincer Ligand with a Sensitive Electronic Structure.. *Inorganic Chemistry*, **2022**,	5.1	2
13	High- and low-spin chelate complexes of iron featuring □C,X-CH2C6H4X (X□= NMe2, PMe2, PPh2) and □C,P-CH2PMe2 ligands. *Journal of Organometallic Chemistry*, **2017**, 847, 132-139	2.3	1
12	Propellanes as Drop-In ROMP Initiators. *Organometallics*, **2021**, 40, 3389-3396	3.8	1
11	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. *Angewandte Chemie*, **2020**, 132, 637-641	3.6	1
10	A Facially Coordinating Tris-Benzimidazole Ligand for Nonheme Iron Enzyme Models. *European Journal of Inorganic Chemistry*, **2021**, 2021, 654-657	2.3	1
9	Synthesis and coordination of a tert-butyl functionalized facially coordinating 2-histidine-1-carboxylate model ligand. *Journal of Coordination Chemistry*, **2021**, 74, 315-320	1.6	1

List of Publications

8	Synthesis of Aminosilane Chemical Vapor Deposition Precursors and Polycarbosilazanes through Manganese-Catalyzed Si□N Dehydrocoupling. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 4218-4226	8.3	1
7	Attempts at generating metathesis-active Fe(IV) and Co(IV) complexes via the reactions of (silox)2M(THF)2, [(silox)3M][Na(THF)2] (M□=□Fe, Co), and related species with propellanes and triphenylboron. *Polyhedron*, **2022**, 215, 115656	2.7	0
6	A Tale of Two Isomers: Enhanced Antiaromaticity/Diradical Character versus Deleterious Ring-Opening of Benzofuran-fused s-Indacenes and Dicyclopenta[b,g]naphthalenes. *Angewandte Chemie*, **2021**, 133, 22559-22566	3.6	0
5	H2 Activation across Manganese(I)□C Bonds: Atypical Metal□ligand Cooperativity in the Aromatization/Dearomatization Paradigm. *Organometallics*, **2022**, 41, 67-75	3.8	0
4	Activation of H2 with Dinuclear Manganese(I)-Phosphido Complexes. *Organometallics*, **2022**, 41, 60-66	3.8	0
3	Reversible Photoisomerization in a Ru cis-Dihydride Catalyst Accessed through Atypical Metal□ligand Cooperative H2 Activation: Photoenhanced Acceptorless Alcohol Dehydrogenation. *Organometallics*, **2022**, 41, 93-98	3.8	0
2	Synthesis and Characterization of 5-Coordinate Tungsten Hydride Anions: [(tBu3SiNH)(tBu3SiN=)2HWR]M. *Israel Journal of Chemistry*, **2017**, 57, 982-989	3.4	
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	