

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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206121

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all docs

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docs citations

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times ranked

3959
citing authors

#	ARTICLE	IF	CITATIONS
1	An Eighteen-Membered Macrocyclic Ligand for Actinium-225 Targeted Alpha Therapy. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14712-14717.	7.2	163
2	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
3	The Myth of d ⁸ Copper(III). <i>Journal of the American Chemical Society</i> , 2019, 141, 18508-18520.	6.6	139
4	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
5	Photoactivated in Vitro Anticancer Activity of Rhenium(I) Tricarbonyl Complexes Bearing Water-Soluble Phosphines. <i>Inorganic Chemistry</i> , 2018, 57, 1311-1331.	1.9	121
6	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.	6.6	120
7	Highly conductive and chemically stable alkaline anion exchange membranes via ROMP of trans-cyclooctene derivatives. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 9729-9734.	3.3	118
8	Diastereo- and Enantioselective Formal [3 + 2] Cycloaddition of Cyclopropyl Ketones and Alkenes via Ti-Catalyzed Radical Redox Relay. <i>Journal of the American Chemical Society</i> , 2018, 140, 3514-3517.	6.6	107
9	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
10	Spectroscopic Evidence for a 3d ¹⁰ Ground State Electronic Configuration and Ligand Field Inversion in [Cu(CF ₃) ₃] ₄ . <i>Journal of the American Chemical Society</i> , 2016, 138, 1922-1931.	6.6	99
11	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, 2327-2341.	6.6	95
12	Bis(thiosemicarbazone) Complexes of Cobalt(III). Synthesis, Characterization, and Anticancer Potential. <i>Inorganic Chemistry</i> , 2017, 56, 6609-6623.	1.9	82
13	Insertion Reactions and Catalytic Hydrophosphination by Triamidoamine-Supported Zirconium Complexes. <i>Organometallics</i> , 2010, 29, 2557-2565.	1.1	75
14	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
15	Zirconium-Catalyzed Heterodehydrocoupling of Primary Phosphines with Silanes and Germanes. <i>Inorganic Chemistry</i> , 2007, 46, 6855-6857.	1.9	58
16	X-ray Spectroscopic Interrogation of Transition-Metal-Mediated Homogeneous Catalysis: Primer and Case Studies. <i>ACS Catalysis</i> , 2017, 7, 1776-1791.	5.5	55
17	Mechanistic variety in zirconium-catalyzed bond-forming reaction of arsines. <i>Dalton Transactions</i> , 2008, , 4488.	1.6	54
18	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

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19	Rapid Dissolution of BaSO ₄ by Macropa, an 18-Membered Macrocyclic with High Affinity for Ba ²⁺ . <i>Journal of the American Chemical Society</i> , 2018, 140, 17071-17078.	6.6	45
20	Switchable living nickel(II)-diimine catalyst for ethylene polymerisation. <i>Chemical Communications</i> , 2019, 55, 7607-7610.	2.2	43
21	Combinatorial Synthesis to Identify a Potent, Necrosis-Inducing Rhenium Anticancer Agent. <i>Inorganic Chemistry</i> , 2019, 58, 3895-3909.	1.9	43
22	Monoradicals and Diradicals of Dibenzofluoreno[3,2- <i>b</i>]fluorene Isomers: Mechanisms of Electronic Delocalization. <i>Journal of the American Chemical Society</i> , 2020, 142, 20444-20455.	6.6	43
23	Rare Examples of Fe(IV) Alkyl-Imide Migratory Insertions: Impact of Fe-C Covalency in (Me ₂ IPr)Fe(=NAd)R ₂ (R = <i>neo</i> -Pe, 1-nor). <i>Journal of the American Chemical Society</i> , 2017, 139, 12145-12148.	6.6	42
24	Redox non-innocence permits catalytic nitrene carbonylation by (dadi)Ti(=NAd) (Ad = adamantyl). <i>Chemical Science</i> , 2017, 8, 3410-3418.	3.7	39
25	General Preparation of (N ₃)ZrX (N ₃ =) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 507 Td (N(CH ₃) ₂) ₂ Hydride Surrogate. <i>Organometallics</i> , 2009, 28, 573-581.	1.1	37
26	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
27	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
28	Neutral Fe(IV) alkylidenes, including some that bind dinitrogen. <i>Chemical Communications</i> , 2016, 52, 3891-3894.	2.2	33
29	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
30	Synthesis of 2-H-Chromenes via Hydrazine-Catalyzed Ring-Closing Carbonyl-Olefin Metathesis. <i>ACS Catalysis</i> , 2019, 9, 9259-9264.	5.5	31
31	Crystalline Coordination Networks of Zero-Valent Metal Centers: Formation of a 3-Dimensional Ni(0) Framework with <i>m</i> -Terphenyl Diisocyanides. <i>Journal of the American Chemical Society</i> , 2017, 139, 17257-17260.	6.6	30
32	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
33	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
34	Synthetic Methods for the Preparation of a Functional Analogue of Ru360, a Potent Inhibitor of Mitochondrial Calcium Uptake. <i>Inorganic Chemistry</i> , 2017, 56, 3123-3126.	1.9	26
35	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.	1.5	26
36	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

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37	β -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
38	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
39	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
40	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
41	Late-Stage Modification of Electronic Properties of Antiaromatic and Diradicaloid Indeno[1,2- <i>b</i>]fluorene Analogues via Sulfur Oxidation. <i>Journal of Organic Chemistry</i> , 2020, 85, 10846-10857.	1.7	21
42	A Tale of Two Isomers: Enhanced Antiaromaticity/Diradical Character versus Deleterious Ring-Opening of Benzofuran-fused <i>s</i> -indacenes and Dicyclopenta[<i>b</i> , <i>g</i>]naphthalenes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22385-22392.	7.2	21
43	Fe(IV) alkylidenes are actually Fe(II), and a related octahedral Fe(II) σ -alkylidene is a conjugated vinyl complex. <i>Polyhedron</i> , 2016, 116, 47-56.	1.0	20
44	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
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 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
47	H ₂ BZmacropa-NCS: A Bifunctional Chelator for Actinium-225 Targeted Alpha Therapy. <i>Bioconjugate Chemistry</i> , 2022, 33, 1222-1231.	1.8	16
48	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
49	Dispersion forces play a role in (Me ₂ IPr)Fe(η -NAd)R ₂ (Ad = adamantyl; R =) <i>TJ ETQq1 1 0.784314 rgBT /Overlo Transactions</i> , 2018, 47, 6025-6030.	1.6	15
50	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
51	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
52	The Hydrazine-O ₂ Redox Couple as a Platform for Organocatalytic Oxidation: Benzo[<i>c</i>]cinnoline-Catalyzed Oxidation of Alkyl Halides to Aldehydes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12494-12498.	7.2	14
53	Bisphosphine phenol and phenolate complexes of Mn(ⁱ): manganese(ⁱ) catalyzed Tishchenko reaction. <i>Dalton Transactions</i> , 2018, 47, 12652-12655.	1.6	14
54	An Approach to Carbide-Centered Cluster Complexes. <i>Inorganic Chemistry</i> , 2019, 58, 4812-4819.	1.9	14

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55	Synthesis of 1,2-Dihydroquinolines via Hydrazine-Catalyzed Ring-Closing Carbonyl-Olefin Metathesis. <i>Organic Letters</i> , 2020, 22, 6026-6030.	2.4	14
56	Oxyaapa: A Picolinate-Based Ligand with Five Oxygen Donors that Strongly Chelates Lanthanides. <i>Inorganic Chemistry</i> , 2020, 59, 5116-5132.	1.9	14

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73	Catalyst-Controlled Regioselective Carbonylation of Isobutylene Oxide to Pivalolactone. ACS Catalysis, 2020, 10, 12537-12543.	5.5	8
74	Probing the electronic and mechanistic roles of the $\frac{1}{4}$ -sulfur atom in a synthetic Cu _Z model system. Chemical Science, 2020, 11, 3441-3447.	3.7	8
75	Synthesis of Aminosilane Chemical Vapor Deposition Precursors and Polycarbosilazanes through Manganese-Catalyzed Si ¹⁴ N Dehydrocoupling. ACS Sustainable Chemistry and Engineering, 2022, 10, 4218-4226.	3.2	8
76	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.	1.5	7
77	Oxidative Additions to Ti(IV) in [(dadi) ⁴] ^{IV} (THF) Involve Carbon-Carbon Bond Formation and Redox-Noninnocent Behavior. Organometallics, 2019, 38, 1502-1515.	1.1	7
78	A robust nickel catalyst with an unsymmetrical propyl-bridged diphosphine ligand for catalyst-transfer polymerization. Polymer Journal, 2020, 52, 83-92.	1.3	7
79	Iron Complexes of a Proton-Responsive SCS Pincer Ligand with a Sensitive Electronic Structure. Inorganic Chemistry, 2022, 61, 1644-1658.	1.9	7
80	H ₂ Activation across Manganese(I)-C Bonds: Atypical Metal-Ligand Cooperativity in the Aromatization/De aromatization Paradigm. Organometallics, 2022, 41, 67-75.	1.1	7
81	Activation of H ₂ with Dinuclear Manganese(I)-Phosphido Complexes. Organometallics, 2022, 41, 60-66.	1.1	7
82	Reversible Photoisomerization in a Ru ^{cis} -Dihydride Catalyst Accessed through Atypical Metal-Ligand Cooperative H ₂ Activation: Photoenhanced Acceptorless Alcohol Dehydrogenation. Organometallics, 2022, 41, 93-98.	1.1	7
83	Unrealized concepts of masked alkylidenes in (PNP)FeXY systems and alternative approaches to LnX _m Fe(IV)=CHR. Polyhedron, 2020, 181, 114460.	1.0	6
84	Reversible C-C Bond Formation, Halide Abstraction, and Electromers in Complexes of Iron Containing Redox-Noninnocent Pyridine-imine Ligands. Inorganic Chemistry, 2021, 60, 18662-18673.	1.9	6
85	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
86	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.	1.9	5
87	{ ^N , ^N -Bis[2-(trimethylsilylamino)ethyl]- ^N - ² -(trimethylsilyl)ethane-1,2-diaminato(3 ⁻)- ⁴ }] ²⁺ Acta Crystallographica Section E: Structure Reports Online, 2008, 64, m477-m477.	0.2	4
88	Hydrogenative Catalysis with Three-coordinate Zinc Complexes Supported with PN Ligands is Enhanced Compared to PNP Analogs. Chemistry - A European Journal, 2022, 28, .	1.7	4
89	Bench-stable Dinuclear Mn(I) Catalysts in ^E -selective Alkyne Semihydrogenation: A Mechanistic Investigation**. Chemistry - A European Journal, 2022, 28, .	1.7	4
90	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

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91	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
92	A hemilabile manganese(II) phenol complex and its coordination induced O-H bond weakening. <i>Dalton Transactions</i> , 2020, 49, 16217-16225.	1.6	3
93	Propellanes as Drop-In ROMP Initiators. <i>Organometallics</i> , 2021, 40, 3389-3396.	1.1	3
94	Controlling Tautomerization in Pyridine-Fused Phosphorus-Nitrogen Heterocycles. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	3
95	Electronically varied manganese tris-arylamide tripodal complexes. <i>Journal of Coordination Chemistry</i> , 2019, 72, 1287-1297.	0.8	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.	1.0	2
97	Electronic Structure of Ru ⁶⁺ Complexes with Electron-Rich Anilinopyridinate Ligands. <i>Inorganic Chemistry</i> , 2022, 61, 3443-3457.	1.9	2
98	Lowering the Symmetry of Cofacial Porphyrin Prisms for Selective Oxygen Reduction Electrocatalysis. <i>Inorganic Chemistry</i> , 0, , .	1.9	2
99	High- and low-spin chelate complexes of iron featuring ^η -C,X-CH ₂ C ₆ H ₄ X (X = NMe ₂ , PMe ₂ , PPh ₂) and ^η -C,P-CH ₂ PMe ₂ ligands. <i>Journal of Organometallic Chemistry</i> , 2017, 847, 132-139.	0.8	1
100	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
101	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
102	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
103	Synthesis and Characterization of 5-coordinate Tungsten Hydride Anions: [(^t Bu) ₃ SiNH)(^t Bu) ₃ SiN=) ₂ HWR]M. <i>Israel Journal of Chemistry</i> , 2017, 57, 982-989.	1.0	0
104	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