Claire L Mcmullin

List of Publications by Citations

Source: https://exaly.com/author-pdf/4752954/claire-l-mcmullin-publications-by-citations.pdf

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

2,660 28 76 50 h-index g-index citations papers 85 3,190 5.52 7.9 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
76	Computational Studies of Carboxylate-Assisted C-H Activation and Functionalization at Group 8-10 Transition Metal Centers. <i>Chemical Reviews</i> , 2017 , 117, 8649-8709	68.1	343
75	Accurate modelling of Pd(0) + PhX oxidative addition kinetics. <i>Dalton Transactions</i> , 2010 , 39, 10833-6	4.3	163
74	Reaction of Cu(I) with dialkyl peroxides: Cu(II)-alkoxides, alkoxy radicals, and catalytic C-H etherification. <i>Journal of the American Chemical Society</i> , 2012 , 134, 17350-3	16.4	121
73	C-H functionalization reactivity of a nickel-imide. <i>Journal of the American Chemical Society</i> , 2012 , 134, 10114-21	16.4	112
7 2	Remote C6-Selective Ruthenium-Catalyzed CH Alkylation of Indole Derivatives via EActivation. <i>ACS Catalysis</i> , 2017 , 7, 2616-2623	13.1	111
71	Experimental and DFT Studies Explain Solvent Control of C-H Activation and Product Selectivity in the Rh(III)-Catalyzed Formation of Neutral and Cationic Heterocycles. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9659-69	16.4	90
70	Computed ligand effects on the oxidative addition of phenyl halides to phosphine supported palladium(0) catalysts. <i>Dalton Transactions</i> , 2014 , 43, 13545-56	4.3	80
69	Copper(II) anilides in sp[]C-H amination. <i>Journal of the American Chemical Society</i> , 2014 , 136, 10930-40	16.4	76
68	Azulene-Derived Fluorescent Probe for Bioimaging: Detection of Reactive Oxygen and Nitrogen Species by Two-Photon Microscopy. <i>Journal of the American Chemical Society</i> , 2019 , 141, 19389-19396	16.4	73
67	Ruthenium-Catalyzed para-Selective C-H Alkylation of Aniline Derivatives. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 15131-15135	16.4	72
66	A Stable Calcium Alumanyl. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 3928-3932	16.4	72
65	Ruthenium(II)-Catalyzed CII Functionalization Using the Oxazolidinone Heterocycle as a Weakly Coordinating Directing Group: Experimental and Computational Insights. <i>ACS Catalysis</i> , 2016 , 6, 5520-5	5 23 1	69
64	Easy access to nucleophilic boron through diborane to magnesium boryl metathesis. <i>Nature Communications</i> , 2017 , 8, 15022	17.4	68
63	Combined experimental and computational investigations of rhodium- and ruthenium-catalyzed C-H functionalization of pyrazoles with alkynes. <i>Journal of Organic Chemistry</i> , 2014 , 79, 1954-70	4.2	68
62	Dehydrogenative boron homocoupling of an amine-borane. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 9776-80	16.4	62
61	The Challenge of Palladium-Catalyzed Aromatic Azidocarbonylation: From Mechanistic and Catalyst Deactivation Studies to a Highly Efficient Process. <i>Organometallics</i> , 2014 , 33, 736-752	3.8	56
60	Azulene-boronate esters: colorimetric indicators for fluoride in drinking water. <i>Chemical Communications</i> , 2017 , 53, 12580-12583	5.8	55

(2010-2009)

59	A ligand knowledge base for carbenes (LKB-C): maps of ligand space. <i>Dalton Transactions</i> , 2009 , 8183-9	64.3	51
58	Organometallic reactivity: the role of metal-ligand bond energies from a computational perspective. <i>Dalton Transactions</i> , 2011 , 40, 11184-91	4.3	48
57	Ligand effects in chromium diphosphine catalysed olefin co-trimerisation and diene trimerisation. <i>Dalton Transactions</i> , 2010 , 560-7	4.3	41
56	The Importance of Kinetic and Thermodynamic Control when Assessing Mechanisms of Carboxylate-Assisted C-H Activation. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8896-8906	16.4	40
55	Catalytic Hydroarylation of Ethylene Using TpRu(L)(NCMe)Ph (L = 2,6,7-Trioxa-1-phosphabicyclo[2,2,1]heptane): Comparison to TpRu(L?)(NCMe)Ph Systems (L? = CO, PMe3, P(pyr)3, or P(OCH2)3CEt). <i>Organometallics</i> , 2012 , 31, 6851-6860	3.8	40
54	Stable fluorophosphines: predicted and realized ligands for catalysis. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 118-22	16.4	38
53	Halo carbonyls enable meta selective primary, secondary and tertiary C-H alkylations by ruthenium catalysis. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 5993-6000	3.9	38
52	A Stable Calcium Alumanyl. <i>Angewandte Chemie</i> , 2020 , 132, 3956-3960	3.6	38
51	N,N?-Bis(diphenylphosphino)diaminophenylphosphine Ligands for Chromium-Catalyzed Selective Ethylene Oligomerization Reactions. <i>Organometallics</i> , 2011 , 30, 935-941	3.8	36
50	Magnesium Boryl Reactivity with 9-BBN and Ph B: Rational B-BSBond Formation and Diborane Isomerization. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 16363-16366	16.4	29
49	Coordination chemistry of 4-methyl-2,6,7-trioxa-1-phosphabicyclo[2,2,1]heptane: preparation and characterization of Ru(II) complexes. <i>Inorganic Chemistry</i> , 2012 , 51, 4791-801	5.1	29
48	Combined experimental and computational investigations of rhodium-catalysed C - H functionalisation of pyrazoles with alkenes. <i>Chemistry - A European Journal</i> , 2015 , 21, 3087-96	4.8	26
47	N,N-Diphospholylamines New Family of Ligands for Highly Active, Chromium-Based, Selective Ethene Oligomerisation Catalysts. <i>ChemCatChem</i> , 2013 , 5, 2946-2954	5.2	25
46	Ruthenium-Catalyzed para-Selective CH Alkylation of Aniline Derivatives. <i>Angewandte Chemie</i> , 2017 , 129, 15327-15331	3.6	24
45	Cage Phosphinites: Ligands for Efficient Nickel-Catalyzed Hydrocyanation of 3-Pentenenitrile. <i>Organometallics</i> , 2011 , 30, 974-985	3.8	24
44	Subtleties in asymmetric catalyst structure: the resolution of a 6-phospha-2,4,8-trioxa-adamantane and its applications in asymmetric hydrogenation catalysis. <i>Chemical Communications</i> , 2010 , 46, 100-2	5.8	23
43	Diphosphanes derived from phobane and phosphatrioxa-adamantane: similarities, differences and anomalies. <i>Dalton Transactions</i> , 2011 , 40, 7137-46	4.3	22
42	Computational study of PtBu3 as ligand in the palladium-catalysed amination of phenylbromide with morpholine. <i>Journal of Molecular Catalysis A</i> , 2010 , 324, 48-55		22

41	Complete methane-to-methanol catalytic cycle: A DFT study of oxygen atom transfer from N2O to late-row (MNi, Cu, Zn) Ediketiminate CH activation catalysts. <i>Polyhedron</i> , 2013 , 52, 945-956	2.7	19
40	Carbon-Carbon Bond Forming Reactions Promoted by Aluminyl and Alumoxane Anions: Introducing the Ethenetetraolate Ligand. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12806-12810	16.4	18
39	Dehydrogenative Boron Homocoupling of an Amine-Borane. <i>Angewandte Chemie</i> , 2013 , 125, 9958-9962	2 3.6	18
38	Is restricted MP rotation a common feature of enantioselective monophos catalysts? An example of restricted RhP rotation in a secondary phosphine complex. <i>Tetrahedron: Asymmetry</i> , 2010 , 21, 1206-1	209	18
37	Diborane heterolysis and P(v) reduction by PhP[double bond, length as m-dash]O coordination to magnesium. <i>Chemical Communications</i> , 2019 , 55, 9035-9038	5.8	17
36	Cobalt PCP Pincer Complexes via an Unexpected Sequence of Ortho Metalations. <i>Organometallics</i> , 2014 , 33, 5686-5692	3.8	17
35	Large, weakly basic bis(carboranyl)phosphines: an experimental and computational study. <i>Dalton Transactions</i> , 2017 , 46, 5218-5228	4.3	16
34	Rhodium Complexes of Cyclopropenylidene Carbene Ligands: Synthesis, Structure, and Hydroformylation Catalysis. <i>Organometallics</i> , 2009 , 28, 1476-1479	3.8	16
33	Magnesium Boryl Reactivity with 9-BBN and Ph3B: Rational B B ? Bond Formation and Diborane Isomerization. <i>Angewandte Chemie</i> , 2017 , 129, 16581-16584	3.6	15
32	Snapshots of magnesium-centred diborane heterolysis by an outer sphere S2 process. <i>Chemical Science</i> , 2019 , 10, 6672-6682	9.4	14
31	Ambiphilic Al-Cu Bonding. Angewandte Chemie - International Edition, 2021, 60, 14390-14393	16.4	14
30	Tuning ligand structure in chiral bis(phosphite) and mixed phosphite-phosphinite PCP-palladium pincer complexes. <i>Dalton Transactions</i> , 2011 , 40, 9034-41	4.3	13
29	Azulenes with aryl substituents bearing pentafluorosulfanyl groups: synthesis, spectroscopic and halochromic properties. <i>New Journal of Chemistry</i> , 2019 , 43, 992-1000	3.6	12
28	Understanding electronic effects on carboxylate-assisted C-H activation at ruthenium: the importance of kinetic and thermodynamic control. <i>Faraday Discussions</i> , 2019 , 220, 386-403	3.6	12
27	Modelling and Rationalizing Organometallic Chemistry with Computation: Where Are We?. <i>Structure and Bonding</i> , 2015 , 1-37	0.9	12
26	Cyclopropenylidene carbene ligands in palladium catalysed coupling reactions: carbene ligand rotation and application to the Stille reaction. <i>Dalton Transactions</i> , 2011 , 40, 5316-23	4.3	12
25	Magnesium-Mediated Nucleophilic Borylation of Carbonyl Electrophiles. <i>Organometallics</i> , 2018 , 37, 445	7 _{5:\$} 464	112
24	The first ring-expanded NHC-copper(i) phosphides as catalysts in the highly selective hydrophosphination of isocyanates. <i>Chemical Communications</i> , 2020 , 56, 13359-13362	5.8	11

(2020-2011)

23	Chiral palladacycles based on resorcinol monophosphite ligands: the role of the meta-hydroxyl in ligand C-H activation and catalysis. <i>Dalton Transactions</i> , 2011 , 40, 9042-50	4.3	10
22	[BO] as a Synthon for the Generation of Boron-Centered Carbamate and Carboxylate Isosteres. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 13628-13632	16.4	9
21	Carbon Larbon Bond Forming Reactions Promoted by Aluminyl and Alumoxane Anions: Introducing the Ethenetetraolate Ligand. <i>Angewandte Chemie</i> , 2020 , 132, 12906-12910	3.6	9
20	Calcium stannyl formation by organostannane dehydrogenation. <i>Chemical Communications</i> , 2019 , 55, 12964-12967	5.8	8
19	Computational Studies on Heteroatom-Assisted CH Activation and Functionalisation at Group 8 and 9 Metal Centres. <i>Topics in Organometallic Chemistry</i> , 2015 , 53-76	0.6	6
18	Stable Fluorophosphines: Predicted and Realized Ligands for Catalysis. <i>Angewandte Chemie</i> , 2012 , 124, 122-126	3.6	6
17	Reductive Dimerization of CO by a Na/Mg(I) Diamide. <i>Journal of the American Chemical Society</i> , 2021 , 143, 17851-17856	16.4	5
16	Dihydrogen Activation by Lithium- and Sodium-Aluminyls. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 22289-22292	16.4	5
15	[BO2] Las a Synthon for the Generation of Boron-Centered Carbamate and Carboxylate Isosteres. <i>Angewandte Chemie</i> , 2020 , 132, 13730-13734	3.6	4
14	Ambiphilic Allu Bonding. <i>Angewandte Chemie</i> , 2021 , 133, 14511-14514	3.6	4
13	Seven-Membered Cyclic Potassium Diamidoalumanyls. <i>Chemistry - A European Journal</i> , 2021 , 27, 14971	-1 4.9 80	4
13	Seven-Membered Cyclic Potassium Diamidoalumanyls. <i>Chemistry - A European Journal</i> , 2021 , 27, 14971 Double insertion of CO into an Al-Te multiple bond. <i>Chemical Communications</i> , 2021 , 57, 2673-2676	-1 4.9 80	4
		,	4 4 3
12	Double insertion of CO into an Al-Te multiple bond. <i>Chemical Communications</i> , 2021 , 57, 2673-2676 Unexpectedly High Barriers to MP Rotation in Tertiary Phobane Complexes: PhobPR Behavior That	5.8	4
12	Double insertion of CO into an Al-Te multiple bond. <i>Chemical Communications</i> , 2021 , 57, 2673-2676 Unexpectedly High Barriers to MP Rotation in Tertiary Phobane Complexes: PhobPR Behavior That Is Commensurate with tBu2PR. <i>Organometallics</i> , 2014 , 33, 702-714 Controlling Al-Interactions in Group 1 Metal Aluminyls (= Li, Na, and K). Facile Conversion of	5.8	3
12 11 10	Double insertion of CO into an Al-Te multiple bond. <i>Chemical Communications</i> , 2021 , 57, 2673-2676 Unexpectedly High Barriers to MP Rotation in Tertiary Phobane Complexes: PhobPR Behavior That Is Commensurate with tBu2PR. <i>Organometallics</i> , 2014 , 33, 702-714 Controlling Al- Interactions in Group 1 Metal Aluminyls (= Li, Na, and K). Facile Conversion of Dimers to Monomeric and Separated Ion Pairs. <i>Inorganic Chemistry</i> , 2021 , 60, 18423-18431 Reductive dehydrocoupling of diphenyltin dihydride with LiAlH: selective synthesis and structures of the first bicyclo[2.2.1]heptastannane-1,4-diide and bicyclo[2.2.2]octastannane-1,4-diide.	5.8 3.8 5.1	3
12 11 10	Double insertion of CO into an Al-Te multiple bond. <i>Chemical Communications</i> , 2021 , 57, 2673-2676 Unexpectedly High Barriers to MP Rotation in Tertiary Phobane Complexes: PhobPR Behavior That Is Commensurate with tBu2PR. <i>Organometallics</i> , 2014 , 33, 702-714 Controlling Al-Interactions in Group 1 Metal Aluminyls (= Li, Na, and K). Facile Conversion of Dimers to Monomeric and Separated Ion Pairs. <i>Inorganic Chemistry</i> , 2021 , 60, 18423-18431 Reductive dehydrocoupling of diphenyltin dihydride with LiAlH: selective synthesis and structures of the first bicyclo[2.2.1]heptastannane-1,4-diide and bicyclo[2.2.2]octastannane-1,4-diide. <i>Chemical Communications</i> , 2020 , 56, 336-339 Synthesis and reactivity of alkaline-earth stannanide complexes by hydride-mediated distannane	5.8 3.8 5.1 5.8	4333

Nucleophilic Magnesium Silanide and Silaamidinate Derivatives. *Inorganic Chemistry*, **2020**, 59, 13679-13689 2

4	Computational Studies of Heteroatom-Assisted C?H Activation at Ru, Rh, Ir, and Pd as a Basis for Heterocycle Synthesis and Derivatization 2016 , 1-44		2
3	DFT calculations bring insight to internal alkyne-to-vinylidene transformations at rhodium PNP- and PONOP-pincer complexes <i>RSC Advances</i> , 2021 , 11, 11793-11803	s-7	1
2	Dihydrogen Activation by Lithium- and Sodium-Aluminyls. <i>Angewandte Chemie</i> , 2021 , 133, 22463-22466 ₃	;.6	1
1	A computational study on the identity of the active catalyst structure for Ru(ii) carboxylate assisted C-H activation in acetonitrile. <i>Organic and Biomolecular Chemistry</i> , 2019 , 17, 6678-6686	;.9	O