

Claire L McMullin

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.

76
papers

2,660
citations

28
h-index

50
g-index

85
ext. papers

3,190
ext. citations

7.9
avg, IF

5.52
L-index

#	Paper	IF	Citations
76	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	5.1	3
75	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
74	Ambiphilic Al-Cu Bonding. <i>Angewandte Chemie</i> , 2021 , 133, 14511-14514	3.6	4
73	Ambiphilic Al-Cu Bonding. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 14390-14393	16.4	14
72	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	3.7	1
71	Dihydrogen Activation by Lithium- and Sodium-Aluminyls. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 22289-22292	16.4	5
70	Dihydrogen Activation by Lithium- and Sodium-Aluminyls. <i>Angewandte Chemie</i> , 2021 , 133, 22463-22466	3.6	1
69	Seven-Membered Cyclic Potassium Diamidoaluminyls. <i>Chemistry - A European Journal</i> , 2021 , 27, 14971-14980	16.4	4
68	Double insertion of CO into an Al-Te multiple bond. <i>Chemical Communications</i> , 2021 , 57, 2673-2676	5.8	4
67	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
66	[BO ₂] as a Synthon for the Generation of Boron-Centered Carbamate and Carboxylate Isosteres. <i>Angewandte Chemie</i> , 2020 , 132, 13730-13734	3.6	4
65	[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
64	Carbon-Carbon Bond Forming Reactions Promoted by Aluminyl and Alumoxane Anions: Introducing the Ethenetetraolate Ligand. <i>Angewandte Chemie</i> , 2020 , 132, 12906-12910	3.6	9
63	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	5.8	3
62	A Stable Calcium Alumanyl. <i>Angewandte Chemie</i> , 2020 , 132, 3956-3960	3.6	38
61	A Stable Calcium Alumanyl. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 3928-3932	16.4	72
60	Phosphinoborane interception at magnesium by borane-assisted phosphine-borane dehydrogenation. <i>Dalton Transactions</i> , 2020 , 49, 14584-14591	4.3	2

59	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
58	Synthesis and reactivity of alkaline-earth stannanide complexes by hydride-mediated distannane metathesis and organostannane dehydrogenation. <i>Dalton Transactions</i> , 2020 , 49, 10523-10534	4.3	3
57	Nucleophilic Magnesium Silanide and Silaamidinate Derivatives. <i>Inorganic Chemistry</i> , 2020 , 59, 13679-13689	6.8	2
56	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
55	Snapshots of magnesium-centred diborane heterolysis by an outer sphere S2 process. <i>Chemical Science</i> , 2019 , 10, 6672-6682	9.4	14
54	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
53	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
52	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	3.9	0
51	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
50	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
49	Calcium stannyl formation by organostannane dehydrogenation. <i>Chemical Communications</i> , 2019 , 55, 12964-12967	5.8	8
48	Magnesium-Mediated Nucleophilic Borylation of Carbonyl Electrophiles. <i>Organometallics</i> , 2018 , 37, 4457-4464	3.4	12
47	Remote C6-Selective Ruthenium-Catalyzed C-H Alkylation of Indole Derivatives via E-Activation. <i>ACS Catalysis</i> , 2017 , 7, 2616-2623	13.1	111
46	Easy access to nucleophilic boron through diborane to magnesium boryl metathesis. <i>Nature Communications</i> , 2017 , 8, 15022	17.4	68
45	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
44	Large, weakly basic bis(carboranyl)phosphines: an experimental and computational study. <i>Dalton Transactions</i> , 2017 , 46, 5218-5228	4.3	16
43	Ruthenium-Catalyzed para-Selective C-H Alkylation of Aniline Derivatives. <i>Angewandte Chemie</i> , 2017 , 129, 15327-15331	3.6	24
42	Ruthenium-Catalyzed para-Selective C-H Alkylation of Aniline Derivatives. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 15131-15135	16.4	72

41	Azulene-boronate esters: colorimetric indicators for fluoride in drinking water. <i>Chemical Communications</i> , 2017 , 53, 12580-12583	5.8	55
40	Magnesium Boryl Reactivity with 9-BBN and Ph ₃ B: Rational BB? Bond Formation and Diborane Isomerization. <i>Angewandte Chemie</i> , 2017 , 129, 16581-16584	3.6	15
39	Magnesium Boryl Reactivity with 9-BBN and Ph ₃ B: Rational B-BS Bond Formation and Diborane Isomerization. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 16363-16366	16.4	29
38	α-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
37	Ruthenium(II)-Catalyzed C-H Functionalization Using the Oxazolidinone Heterocycle as a Weakly Coordinating Directing Group: Experimental and Computational Insights. <i>ACS Catalysis</i> , 2016 , 6, 5520-5529	13.1	69
36	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
35	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
34	Computational Studies on Heteroatom-Assisted C-H Activation and Functionalisation at Group 8 and 9 Metal Centres. <i>Topics in Organometallic Chemistry</i> , 2015 , 53-76	0.6	6
33	Modelling and Rationalizing Organometallic Chemistry with Computation: Where Are We?. <i>Structure and Bonding</i> , 2015 , 1-37	0.9	12
32	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
31	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
30	Unexpectedly High Barriers to MB Rotation in Tertiary Phobane Complexes: PhobPR Behavior That Is Commensurate with tBu ₂ PR. <i>Organometallics</i> , 2014 , 33, 702-714	3.8	3
29	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
28	Cobalt PCP Pincer Complexes via an Unexpected Sequence of Ortho Metalations. <i>Organometallics</i> , 2014 , 33, 5686-5692	3.8	17
27	Correlations of the Structural Properties of a Complete R ₂ PX Series (X = Hydrogen or Halogen). <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 1843-1849	2.3	2
26	Copper(II) anilides in sp ² C-H amination. <i>Journal of the American Chemical Society</i> , 2014 , 136, 10930-40	16.4	76
25	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
24	Dehydrogenative boron homocoupling of an amine-borane. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 9776-80	16.4	62

23	Complete methane-to-methanol catalytic cycle: A DFT study of oxygen atom transfer from N ₂ O to late-row (MNi, Cu, Zn) Ediketimate CH activation catalysts. <i>Polyhedron</i> , 2013 , 52, 945-956	2.7	19
22	N,N-Diphospholylamines: A New Family of Ligands for Highly Active, Chromium-Based, Selective Ethene Oligomerisation Catalysts. <i>ChemCatChem</i> , 2013 , 5, 2946-2954	5.2	25
21	Dehydrogenative Boron Homocoupling of an Amine-Borane. <i>Angewandte Chemie</i> , 2013 , 125, 9958-9962	3.6	18
20	Stable Fluorophosphines: Predicted and Realized Ligands for Catalysis. <i>Angewandte Chemie</i> , 2012 , 124, 122-126	3.6	6
19	Stable fluorophosphines: predicted and realized ligands for catalysis. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 118-22	16.4	38
18	Catalytic Hydroarylation of Ethylene Using TpRu(L)(NCMe)Ph (L = 2,6,7-Trioxa-1-phospha-bicyclo[2,2,1]heptane): Comparison to TpRu(L')(NCMe)Ph Systems (L' = CO, PMe ₃ , P(pyr) ₃ , or P(OCH ₂) ₃ CEt). <i>Organometallics</i> , 2012 , 31, 6851-6860	3.8	40
17	Coordination chemistry of 4-methyl-2,6,7-trioxa-1-phospha-bicyclo[2,2,1]heptane: preparation and characterization of Ru(II) complexes. <i>Inorganic Chemistry</i> , 2012 , 51, 4791-801	5.1	29
16	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
15	C-H functionalization reactivity of a nickel-imide. <i>Journal of the American Chemical Society</i> , 2012 , 134, 10114-21	16.4	112
14	Cage Phosphinites: Ligands for Efficient Nickel-Catalyzed Hydrocyanation of 3-Pentenenitrile. <i>Organometallics</i> , 2011 , 30, 974-985	3.8	24
13	N,N'-Bis(diphenylphosphino)diaminophenylphosphine Ligands for Chromium-Catalyzed Selective Ethylene Oligomerization Reactions. <i>Organometallics</i> , 2011 , 30, 935-941	3.8	36
12	Organometallic reactivity: the role of metal-ligand bond energies from a computational perspective. <i>Dalton Transactions</i> , 2011 , 40, 11184-91	4.3	48
11	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
10	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
9	Diphosphanes derived from phobane and phosphatrioxa-adamantane: similarities, differences and anomalies. <i>Dalton Transactions</i> , 2011 , 40, 7137-46	4.3	22
8	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
7	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
6	Accurate modelling of Pd(0) + PhX oxidative addition kinetics. <i>Dalton Transactions</i> , 2010 , 39, 10833-6	4.3	163

- 5 Ligand effects in chromium diphosphine catalysed olefin co-trimerisation and diene trimerisation. *Dalton Transactions*, **2010**, 560-7 4.3 41
- 4 Is restricted M₂P rotation a common feature of enantioselective monophos catalysts? An example of restricted Rh₂P rotation in a secondary phosphine complex. *Tetrahedron: Asymmetry*, **2010**, 21, 1206-1209 18
- 3 Computational study of PtBu₃ as ligand in the palladium-catalysed amination of phenylbromide with morpholine. *Journal of Molecular Catalysis A*, **2010**, 324, 48-55 22
- 2 Rhodium Complexes of Cyclopropenylidene Carbene Ligands: Synthesis, Structure, and Hydroformylation Catalysis. *Organometallics*, **2009**, 28, 1476-1479 3.8 16
- 1 A ligand knowledge base for carbenes (LKB-C): maps of ligand space. *Dalton Transactions*, **2009**, 8183-964.3 51