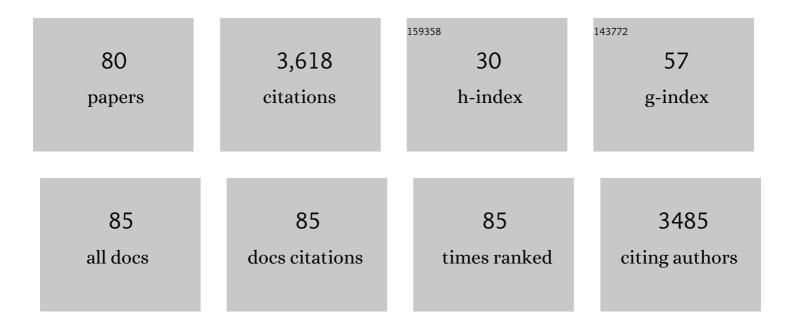
Claire L Mcmullin

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Computational Studies of Carboxylate-Assisted C–H Activation and Functionalization at Group 8–10 Transition Metal Centers. Chemical Reviews, 2017, 117, 8649-8709. | 23.0 | 472 |
| 2 | Accurate modelling of Pd(0) + PhX oxidative addition kinetics. Dalton Transactions, 2010, 39, 10833. | 1.6 | 179 |
| 3 | Reaction of Cu ^I with Dialkyl Peroxides: Cu ^{II} -Alkoxides, Alkoxy Radicals, and Catalytic C–H Etherification. Journal of the American Chemical Society, 2012, 134, 17350-17353. | 6.6 | 143 |
| 4 | Remote C6-Selective Ruthenium-Catalyzed C–H Alkylation of Indole Derivatives via σ-Activation. ACS Catalysis, 2017, 7, 2616-2623. | 5.5 | 141 |
| 5 | Azulene-Derived Fluorescent Probe for Bioimaging: Detection of Reactive Oxygen and Nitrogen Species by Two-Photon Microscopy. Journal of the American Chemical Society, 2019, 141, 19389-19396. | 6.6 | 125 |
| 6 | C–H Functionalization Reactivity of a Nickel–Imide. Journal of the American Chemical Society, 2012, 134, 10114-10121. | 6.6 | 122 |
| 7 | A Stable Calcium Alumanyl. Angewandte Chemie - International Edition, 2020, 59, 3928-3932. | 7.2 | 117 |
| 8 | 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. Journal of the American Chemical Society, 2015, 137, 9659-9669. | 6.6 | 108 |
| 9 | Ruthenium atalyzed <i>para</i> ‧elective Câ^'H Alkylation of Aniline Derivatives. Angewandte Chemie - International Edition, 2017, 56, 15131-15135. | 7.2 | 108 |
| 10 | Computed ligand effects on the oxidative addition of phenyl halides to phosphine supported palladium(0) catalysts. Dalton Transactions, 2014, 43, 13545-13556. | 1.6 | 100 |
| 11 | Copper(II) Anilides in sp ³ C-H Amination. Journal of the American Chemical Society, 2014, 136, 10930-10940. | 6.6 | 99 |
| 12 | Ruthenium(II)-Catalyzed C–H Functionalization Using the Oxazolidinone Heterocycle as a Weakly Coordinating Directing Group: Experimental and Computational Insights. ACS Catalysis, 2016, 6, 5520-5529. | 5.5 | 87 |
| 13 | Easy access to nucleophilic boron through diborane to magnesium boryl metathesis. Nature Communications, 2017, 8, 15022. | 5.8 | 87 |
| 14 | Combined Experimental and Computational Investigations of Rhodium- and Ruthenium-Catalyzed C–H Functionalization of Pyrazoles with Alkynes. Journal of Organic Chemistry, 2014, 79, 1954-1970. | 1.7 | 75 |
| 15 | The Challenge of Palladium-Catalyzed Aromatic Azidocarbonylation: From Mechanistic and Catalyst Deactivation Studies to a Highly Efficient Process. Organometallics, 2014, 33, 736-752. | 1.1 | 68 |
| 16 | Dehydrogenative Boron Homocoupling of an Amineâ€Borane. Angewandte Chemie - International Edition, 2013, 52, 9776-9780. | 7.2 | 66 |
| 17 | The Importance of Kinetic and Thermodynamic Control when Assessing Mechanisms of Carboxylate-Assisted C–H Activation. Journal of the American Chemical Society, 2019, 141, 8896-8906. | 6.6 | 66 |
| 18 | Azulene–boronate esters: colorimetric indicators for fluoride in drinking water. Chemical Communications, 2017, 53, 12580-12583. | 2.2 | 65 |

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|----|---|-----|-----------|
| 19 | A Stable Calcium Alumanyl. Angewandte Chemie, 2020, 132, 3956-3960. | 1.6 | 60 |
| 20 | A ligand knowledge base for carbenes (LKB-C): maps of ligand space. Dalton Transactions, 2009, , 8183. | 1.6 | 59 |
| 21 | Organometallic reactivity: the role of metal–ligand bond energies from a computational perspective. Dalton Transactions, 2011, 40, 11184. | 1.6 | 57 |
| 22 | Ligand effects in chromium diphosphine catalysed olefin co-trimerisation and diene trimerisation. Dalton Transactions, 2010, 39, 560-567. | 1.6 | 47 |
| 23 | α-Halo carbonyls enable meta selective primary, secondary and tertiary C–H alkylations by ruthenium catalysis. Organic and Biomolecular Chemistry, 2017, 15, 5993-6000. | 1.5 | 47 |
| 24 | Stable Fluorophosphines: Predicted and Realized Ligands for Catalysis. Angewandte Chemie - International Edition, 2012, 51, 118-122. | 7.2 | 46 |
| 25 | Ambiphilic Alâ^'Cu Bonding. Angewandte Chemie - International Edition, 2021, 60, 14390-14393. | 7.2 | 44 |
| | Catalytic Hydroarylation of Ethylene Using TpRu(L)(NCMe)Ph (L =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 472 T | | • • |
| 26 | 2012, 31, 6851-6860. | 1.1 | 43 |
| 27 | <i>N</i> , <i>N</i> ′-Bis(diphenylphosphino)diaminophenylphosphine Ligands for Chromium-Catalyzed Selective Ethylene Oligomerization Reactions. Organometallics, 2011, 30, 935-941. | 1.1 | 39 |
| 28 | Carbon–Carbon Bond Forming Reactions Promoted by Aluminyl and Alumoxane Anions: Introducing the Ethenetetraolate Ligand. Angewandte Chemie - International Edition, 2020, 59, 12806-12810. | 7.2 | 37 |
| 29 | Magnesium Boryl Reactivity with 9â€BBN and Ph ₃ B: Rational Bâ^Bâ€2 Bond Formation and Diborane Isomerization. Angewandte Chemie - International Edition, 2017, 56, 16363-16366. | 7.2 | 36 |
| 30 | Dihydrogen Activation by Lithium―and Sodiumâ€Aluminyls. Angewandte Chemie - International Edition, 2021, 60, 22289-22292. | 7.2 | 33 |
| 31 | Reductive Dimerization of CO by a Na/Mg(I) Diamide. Journal of the American Chemical Society, 2021, 143, 17851-17856. | 6.6 | 31 |
| 32 | Rubidium and caesium aluminyls: synthesis, structures and reactivity in C–H bond activation of benzene. Chemical Communications, 2022, 58, 1390-1393. | 2.2 | 31 |
| 33 | Coordination Chemistry of 4-Methyl-2,6,7-trioxa-1-phosphabicyclo[2,2,1]heptane: Preparation and Characterization of Ru(II) Complexes. Inorganic Chemistry, 2012, 51, 4791-4801. | 1.9 | 30 |
| 34 | Diphosphanes derived from phobane and phosphatrioxa-adamantane: similarities, differences and anomalies. Dalton Transactions, 2011, 40, 7137. | 1.6 | 28 |
| 35 | <i>N</i> , <i>N</i> â€Ðiphospholylamines—A New Family of Ligands for Highly Active, Chromiumâ€Based, Selective Ethene Oligomerisation Catalysts. ChemCatChem, 2013, 5, 2946-2954. | 1.8 | 28 |
| 36 | Rutheniumâ€Catalyzed <i>para</i> â€Selective Câ^'H Alkylation of Aniline Derivatives. Angewandte Chemie, 2017, 129, 15327-15331. | 1.6 | 28 |

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|----|--|-----|-----------|
| 37 | Combined Experimental and Computational Investigations of Rhodiumâ€Catalysed CH Functionalisation of Pyrazoles with Alkenes. Chemistry - A European Journal, 2015, 21, 3087-3096. | 1.7 | 27 |
| 38 | The first ring-expanded NHC–copper(<scp>i</scp>) phosphides as catalysts in the highly selective hydrophosphination of isocyanates. Chemical Communications, 2020, 56, 13359-13362. | 2.2 | 27 |
| 39 | Computational study of PtBu3 as ligand in the palladium-catalysed amination of phenylbromide with morpholineâ ⁻ †. Journal of Molecular Catalysis A, 2010, 324, 48-55. | 4.8 | 26 |
| 40 | Subtleties in asymmetric catalyst structure: the resolution of a 6-phospha-2,4,8-trioxa-adamantane and its applications in asymmetric hydrogenation catalysis. Chemical Communications, 2010, 46, 100-102. | 2.2 | 26 |
| 41 | Cage Phosphinites: Ligands for Efficient Nickel-Catalyzed Hydrocyanation of 3-Pentenenitrile. Organometallics, 2011, 30, 974-985. | 1.1 | 26 |
| 42 | Diborane heterolysis and P(<scp>v</scp>) reduction by Ph ₃ Pî€O coordination to magnesium. Chemical Communications, 2019, 55, 9035-9038. | 2.2 | 25 |
| 43 | Understanding electronic effects on carboxylate-assisted C–H activation at ruthenium: the importance of kinetic and thermodynamic control. Faraday Discussions, 2019, 220, 386-403. | 1.6 | 23 |
| 44 | On the reactivity of Al-group 11 (Cu, Ag, Au) bonds. Dalton Transactions, 2022, 51, 3913-3924. | 1.6 | 23 |
| 45 | Cobalt PCP Pincer Complexes via an Unexpected Sequence of Ortho Metalations. Organometallics, 2014, 33, 5686-5692. | 1.1 | 21 |
| 46 | Complete methane-to-methanol catalytic cycle: A DFT study of oxygen atom transfer from N2O to late-row (MNi, Cu, Zn) β-diketiminate CH activation catalysts. Polyhedron, 2013, 52, 945-956. | 1.0 | 20 |
| 47 | Magnesium-Mediated Nucleophilic Borylation of Carbonyl Electrophiles. Organometallics, 2018, 37, 4457-4464. | 1.1 | 20 |
| 48 | Sevenâ€Membered Cyclic Potassium Diamidoalumanyls. Chemistry - A European Journal, 2021, 27, 14971-14980. | 1.7 | 20 |
| 49 | Is restricted M–P rotation a common feature of enantioselective monophos catalysts? An example of restricted Rh–P rotation in a secondary phosphine complex. Tetrahedron: Asymmetry, 2010, 21, 1206-1209. | 1.8 | 19 |
| 50 | Snapshots of magnesium-centred diborane heterolysis by an outer sphere S _N 2 process. Chemical Science, 2019, 10, 6672-6682. | 3.7 | 19 |
| 51 | Potassium Aluminyl Promoted Carbonylation of Ethene. Angewandte Chemie - International Edition, 2022, 61, . | 7.2 | 19 |
| 52 | Large, weakly basic bis(carboranyl)phosphines: an experimental and computational study. Dalton Transactions, 2017, 46, 5218-5228. | 1.6 | 18 |
| 53 | Rhodium Complexes of Cyclopropenylidene Carbene Ligands: Synthesis, Structure, and Hydroformylation Catalysis. Organometallics, 2009, 28, 1476-1479. | 1.1 | 17 |
| 54 | Magnesium Boryl Reactivity with 9â€BBN and Ph ₃ B: Rational Bâ^'B′ Bond Formation and Diborane Isomerization. Angewandte Chemie, 2017, 129, 16581-16584. | 1.6 | 17 |

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Cyclopropenylidene carbene ligands in palladium catalysed coupling reactions: carbene ligand rotation and application to the Stille reaction. Dalton Transactions, 2011, 40, 5316. | 1.6 | 15 |
| 56 | Azulenes with aryl substituents bearing pentafluorosulfanyl groups: synthesis, spectroscopic and halochromic properties. New Journal of Chemistry, 2019, 43, 992-1000. | 1.4 | 15 |
| 57 | [BO ₂] ^{â~`} as a Synthon for the Generation of Boron entered Carbamate and Carboxylate Isosteres. Angewandte Chemie - International Edition, 2020, 59, 13628-13632. | 7.2 | 15 |
| 58 | Double insertion of CO ₂ into an Al–Te multiple bond. Chemical Communications, 2021, 57, 2673-2676. | 2.2 | 15 |
| 59 | Calcium stannyl formation by organostannane dehydrogenation. Chemical Communications, 2019, 55, 12964-12967. | 2.2 | 14 |
| 60 | Tuning ligand structure in chiral bis(phosphite) and mixed phosphite–phosphinite PCP-palladium pincer complexes. Dalton Transactions, 2011, 40, 9034. | 1.6 | 13 |
| 61 | Modelling and Rationalizing Organometallic Chemistry with Computation: Where Are We?. Structure and Bonding, 2015, , 1-37. | 1.0 | 13 |
| 62 | Ambiphilic Alâ^'Cu Bonding. Angewandte Chemie, 2021, 133, 14511-14514. | 1.6 | 13 |
| 63 | Carbon–Carbon Bond Forming Reactions Promoted by Aluminyl and Alumoxane Anions: Introducing the Ethenetetraolate Ligand. Angewandte Chemie, 2020, 132, 12906-12910. | 1.6 | 12 |
| 64 | Controlling Al– M Interactions in Group 1 Metal Aluminyls (M = Li, Na, and K). Facile Conversion of Dimers to Monomeric and Separated Ion Pairs. Inorganic Chemistry, 2021, 60, 18423-18431. | 1.9 | 12 |
| 65 | Chiral palladacycles based on resorcinol monophosphite ligands: the role of the meta-hydroxyl in ligand C–H activation and catalysis. Dalton Transactions, 2011, 40, 9042. | 1.6 | 10 |
| 66 | Phosphinoborane interception at magnesium by borane-assisted phosphine-borane dehydrogenation. Dalton Transactions, 2020, 49, 14584-14591. | 1.6 | 10 |
| 67 | Carbon–chalcogen bond formation initiated by [Al(NON ^{Dipp})(E)] ^{â^`} anions containing Al–E{16} (E{16} = S, Se) multiple bonds. Chemical Science, 2022, 13, 4635-4646. | 3.7 | 10 |
| 68 | Dihydrogen Activation by Lithium―and Sodiumâ€Aluminyls. Angewandte Chemie, 2021, 133, 22463-22466. | 1.6 | 9 |
| 69 | Computational Studies on Heteroatom-Assisted C–H Activation and Functionalisation at Group 8 and 9 Metal Centres. Topics in Organometallic Chemistry, 2015, , 53-76. | 0.7 | 7 |
| 70 | [BO 2] â^' as a Synthon for the Generation of Boron entered Carbamate and Carboxylate Isosteres. Angewandte Chemie, 2020, 132, 13730-13734. | 1.6 | 7 |
| 71 | Synthesis and reactivity of alkaline-earth stannanide complexes by hydride-mediated distannane metathesis and organostannane dehydrogenation. Dalton Transactions, 2020, 49, 10523-10534. | 1.6 | 6 |
| 72 | Nucleophilic Magnesium Silanide and Silaamidinate Derivatives. Inorganic Chemistry, 2020, 59, 13679-13689. | 1.9 | 6 |

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| 73 | Reductive dehydrocoupling of diphenyltin dihydride with LiAlH4: selective synthesis and structures of the first bicyclo[2.2.1]heptastannane-1,4-diide and bicyclo[2.2.2]octastannane-1,4-diide. Chemical Communications, 2020, 56, 336-339. | 2.2 | 5 |
| 74 | Isocyanate deoxygenation by a molecular magnesium silanide. Dalton Transactions, 2021, 51, 136-144. | 1.6 | 4 |
| 75 | Unexpectedly High Barriers to M–P Rotation in Tertiary Phobane Complexes: PhobPR Behavior That Is Commensurate with tBu2PR. Organometallics, 2014, 33, 702-714. | 1.1 | 3 |
| 76 | A computational study on the identity of the active catalyst structure for Ru(ii) carboxylate assisted C–H activation in acetonitrile. Organic and Biomolecular Chemistry, 2019, 17, 6678-6686. | 1.5 | 3 |
| 77 | Correlations of the Structural Properties of a Complete R ₂ PX Series (X = Hydrogen or) Tj ETQq1 1 0. | .784314 rg | gBT /Overloc |
| 78 | A Terphenyl Supported Dioxophosphorane Dimer: the Light Congener of Lawesson's and Woollins' Reagents. Chemistry - A European Journal, 2022, , . | 1.7 | 2 |
| 79 | DFT calculations bring insight to internal alkyne-to-vinylidene transformations at rhodium PNP- and PONOP-pincer complexes. RSC Advances, 2021, 11, 11793-11803. | 1.7 | 1 |
| 80 | Potassium Aluminyl Promoted Carbonylation of Ethene. Angewandte Chemie, 2022, 134, . | 1.6 | 0 |