

Christopher G Frost

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120
papers

6,601
citations

42
h-index

78
g-index

168
ext. papers

7,220
ext. citations

5.9
avg, IF

6.09
L-index

#	Paper	IF	Citations
120	Selectivity in palladium catalysed allylic substitution. <i>Tetrahedron: Asymmetry</i> , 1992 , 3, 1089-1122		456
119	Ruthenium-catalyzed meta sulfonation of 2-phenylpyridines. <i>Journal of the American Chemical Society</i> , 2011 , 133, 19298-301	16.4	391
118	Asymmetric palladium catalysed allylic substitution using phosphorus containing oxazoline ligands. <i>Tetrahedron Letters</i> , 1993 , 34, 3149-3150	2	382
117	Synthetic applications of rhodium catalysed conjugate addition. <i>Chemical Society Reviews</i> , 2010 , 39, 2093-105	38.95	284
116	Beyond C2 and C3: Transition-Metal-Catalyzed C-H Functionalization of Indole. <i>ACS Catalysis</i> , 2017 , 7, 5618-5627	13.1	268
115	Post-synthetic modification of tagged metal-organic frameworks. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 8482-6	16.4	255
114	Heterogeneous catalytic synthesis using microreactor technology. <i>Green Chemistry</i> , 2010 , 12, 1687	10	251
113	Ruthenium-catalysed δ activation for remote meta-selective C-H functionalisation. <i>Chemical Society Reviews</i> , 2017 , 46, 7145-7153	58.5	202
112	Advances in indium-catalysed organic synthesis. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2000 , 3015-3019		182
111	Indium Triflate: An Efficient Catalyst For Acylation Reactions. <i>Synlett</i> , 1999 , 1999, 1743-1744	2.2	159
110	Catalytic meta-selective C-H functionalization to construct quaternary carbon centres. <i>Chemical Communications</i> , 2015 , 51, 12807-10	5.8	130
109	Ratiometric electrochemical detection of alkaline phosphatase. <i>Chemical Communications</i> , 2015 , 51, 5615-18	5.8	122
108	Label-free impedimetric aptasensor with antifouling surface chemistry: A prostate specific antigen case study. <i>Sensors and Actuators B: Chemical</i> , 2015 , 209, 306-312	8.5	116
107	Remote C6-Selective Ruthenium-Catalyzed C-H Alkylation of Indole Derivatives via δ Activation. <i>ACS Catalysis</i> , 2017 , 7, 2616-2623	13.1	111
106	Silver phosphanes partnered with carborane monoanions: synthesis, structures and use as highly active Lewis acid catalysts in a hetero-Diels-Alder reaction. <i>Chemistry - A European Journal</i> , 2002 , 8, 2088-98	4.8	110
105	Easy-separable magnetic nanoparticle-supported Pd catalysts: Kinetics, stability and catalyst re-use. <i>Journal of Catalysis</i> , 2009 , 268, 318-328	7.3	98
104	Sulfur-tagged metal-organic frameworks and their post-synthetic oxidation. <i>Chemical Communications</i> , 2009 , 4218-20	5.8	92

103	Enantioselective palladium catalysed allylic substitution with thienyl oxazoline ligands. <i>Tetrahedron Letters</i> , 1993 , 34, 2015-2018	2	91
102	Rhodium-catalysed aryl transfer to aldehydes: counterion effects with nitrogen containing ligands. <i>Tetrahedron Letters</i> , 2001 , 42, 6957-6960	2	84
101	Preparation of novel Sulfur and phosphorus containing oxazolines as ligands for asymmetric catalysis. <i>Tetrahedron</i> , 1994 , 50, 799-808	2.4	74
100	Ruthenium-Catalyzed para-Selective C-H Alkylation of Aniline Derivatives. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 15131-15135	16.4	72
99	Transition metal complexes of the chelating phosphine borane ligand Ph ₂ PCH ₂ Ph ₂ P.BH ₃ . <i>Dalton Transactions</i> , 2004 , 3883-92	4.3	70
98	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
97	Indium triflate-an efficient catalyst for hetero Diels-Alder reactions. <i>Tetrahedron Letters</i> , 1999 , 40, 5621-5624	2	66
96	Recent developments in aromatic heteroatom coupling reactions. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1998 , 2615		61
95	Efficient aromatic and heteroatom acylations using catalytic indium complexes with lithium perchlorate. <i>Tetrahedron Letters</i> , 2001 , 42, 773-775	2	61
94	Sulfides tethered to oxazolines: Ligands for enantioselective catalysis. <i>Tetrahedron Letters</i> , 1993 , 34, 7793-7796	2	61
93	Counterion effects in indium-catalysed aromatic electrophilic substitution reactions. <i>Tetrahedron Letters</i> , 2002 , 43, 4789-4791	2	60
92	Rhodium-catalyzed conjugate addition-enantioselective protonation: the synthesis of alpha,alpha'-dibenzyl esters. <i>Organic Letters</i> , 2007 , 9, 2119-22	6.2	55
91	Rhodium catalysed addition of boronic acids to anhydrides: a new method for the synthesis of ketones. <i>Chemical Communications</i> , 2001 , 2316-7	5.8	55
90	Alternatives to organoboron reagents in rhodium-catalyzed conjugate additions. <i>Chemistry - an Asian Journal</i> , 2010 , 5, 386-96	4.5	54
89	A novel immobilization strategy for electrochemical detection of cancer biomarkers: DNA-directed immobilization of aptamer sensors for sensitive detection of prostate specific antigens. <i>Analyst, The</i> , 2015 , 140, 2628-33	5	51
88	Phosphine-olefin ligands: a facile dehydrogenative route to catalytically active rhodium complexes. <i>Chemical Communications</i> , 2006 , 3408-10	5.8	49
87	Enantioselective palladium catalysed allylic substitution with sulfur-containing oxazoline ligands. <i>Tetrahedron: Asymmetry</i> , 1993 , 4, 1785-1788		49
86	Ruthenium-catalyzed C-H functionalization of arylpyrazoles: regioselective acylation with acid chlorides. <i>Organic Letters</i> , 2013 , 15, 5862-5	6.2	48

85	Rhodium catalysed tandem conjugate addition-protonation: an enantioselective synthesis of 2-substituted succinic esters. <i>Chemical Communications</i> , 2004 , 1984-5	5.8	48
84	Dipyridyl beta-diketonate complexes: versatile polydentate metalloligands for metal-organic frameworks and hydrogen-bonded networks. <i>Chemical Communications</i> , 2010 , 46, 5067-9	5.8	47
83	Community sewage sensors for monitoring public health. <i>Environmental Science & Technology</i> , 2015 , 49, 5845-6	10.3	46
82	Indium-Catalysed Aryl and Alkyl Sulfonylation of Aromatics. <i>Synlett</i> , 2001 , 2001, 0830-0832	2.2	46
81	Synthesis of functionalised (triorganostannyl)tetrazoles: supramolecular structures of n-[2-(triorganostannyl)tetrazol-5-yl]pyridine (n = 2, 3 or 4). <i>Dalton Transactions RSC</i> , 2000 , 663-669		45
80	Subtle structural variation in copper metal-organic frameworks: syntheses, structures, magnetic properties and catalytic behaviour. <i>Dalton Transactions</i> , 2008 , 6788-95	4.3	44
79	Chelating Monoborane Phosphines: Rational and High-Yield Synthesis of [(COD)Rh{(E)-BH3)Ph2PCH2PPh2}][PF6] (COD = 1,5-cyclooctadiene). <i>Organometallics</i> , 2001 , 20, 4434-4436 ³⁸		44
78	Robust and reusable supported palladium catalysts for cross-coupling reactions in flow. <i>Catalysis Science and Technology</i> , 2014 , 4, 948	5.5	42
77	Enantioselective rhodium-catalysed addition of boronic acids using C2-symmetric aryl diphosphite ligands. <i>Journal of Organometallic Chemistry</i> , 2003 , 680, 206-211	2.3	42
76	Tandem and Domino Catalytic Strategies for Enantioselective Synthesis. <i>Synthesis</i> , 2007 , 2007, 1-21	2.9	41
75	Site-selective modification of peptides using rhodium and palladium catalysis: complementary electrophilic and nucleophilic arylation. <i>Chemical Communications</i> , 2007 , 3903-5	5.8	40
74	[(PPh3)Ag(CB11H6Y6)] (Y = H, Br): highly active, selective and recyclable Lewis acids for a hetero-Diels-Alder reaction. <i>Chemical Communications</i> , 2001 , 2286-2287	5.8	39
73	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
72	Catalytic Arylation of Sulfamoyl Chlorides: A Practical Synthesis of Sulfonamides. <i>Synlett</i> , 2002 , 2002, 1928-1930	2.2	38
71	Mechanistic insight into ruthenium catalysed meta-sulfonation of 2-phenylpyridine. <i>Catalysis Science and Technology</i> , 2016 , 6, 7068-7076	5.5	38
70	Approaches towards molecular amplification for sensing. <i>Analyst, The</i> , 2016 , 141, 3157-218	5	37
69	A novel DNA biosensor using a ferrocenyl intercalator applied to the potential detection of human population biomarkers in wastewater. <i>Environmental Science & Technology</i> , 2015 , 49, 5609-17	10.3	36
68	The rhodium-catalysed 1,2-addition of arylboronic acids to aldehydes and ketones with sulfonated S-Phos. <i>Tetrahedron Letters</i> , 2009 , 50, 7365-7368	2	35

67	Rhodium Containing Magnetic Nanoparticles: Effective Catalysts for Hydrogenation and the 1,4-Addition of Boronic Acids. <i>Catalysis Letters</i> , 2008 , 122, 68-75	2.8	34
66	Rhodium-catalysed enantioselective synthesis of 4-arylchroman-2-ones. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 32-5	3.9	32
65	Copper-catalyzed one-pot synthesis of N-aryl oxazolidinones from amino alcohol carbamates. <i>Organic Letters</i> , 2014 , 16, 5020-3	6.2	31
64	BINOL-3,3'-trifluoro N,N-dimethyl phosphoramidites: through-space ¹⁹ F, ³¹ P spin-spin coupling with a remarkable dependency on temperature and solvent internal pressure. <i>Chemistry - A European Journal</i> , 2008 , 14, 7808-12	4.8	30
63	An electrochemical study of enzymatic oligonucleotide digestion. <i>Bioelectrochemistry</i> , 2004 , 63, 307-10	5.6	30
62	Taxane diterpenes 1. Control of relative and absolute stereochemistry in intramolecular pyrylium ylide-alkene cyclizations for the synthesis of taxol precursors. <i>Tetrahedron</i> , 1996 , 52, 14081-14102	2.4	30
61	Community Sewage Sensors towards Evaluation of Drug Use Trends: Detection of Cocaine in Wastewater with DNA-Directed Immobilization Aptamer Sensors. <i>Scientific Reports</i> , 2016 , 6, 21024	4.9	28
60	The Preparation of Functionalised Aryl Phosphines from Aryl Fluorides by Nucleophilic Aromatic Substitution with Potassium Diphenylphosphide. <i>Synlett</i> , 1993 , 1993, 509-510	2.2	28
59	Peptide modification through site-selective residue interconversion: application of the rhodium-catalysed 1,4-addition of aryl siloxanes and boronates. <i>Tetrahedron</i> , 2008 , 64, 9528-9539	2.4	27
58	Rhodium-catalysed addition of organotrialkoxysilanes to alpha-substituted acrylic esters. <i>Organic and Biomolecular Chemistry</i> , 2006 , 4, 3235-41	3.9	27
57	Catalytic asymmetric hydrosilylation of ketones using mixed-ligand ruthenium complexes. <i>Tetrahedron Letters</i> , 1999 , 40, 5617-5620	2	27
56	Enantiomerically Pure Acetals as Ligands for Asymmetric Catalysis. <i>Synlett</i> , 1994 , 1994, 551-552	2.2	27
55	Use of the Hydantoin Directing Group in Ruthenium(II)-Catalyzed C-H Functionalization. <i>Journal of Organic Chemistry</i> , 2016 , 81, 10081-10087	4.2	26
54	Ruthenium-Catalyzed para-Selective C ₆ H ₄ Alkylation of Aniline Derivatives. <i>Angewandte Chemie</i> , 2017 , 129, 15327-15331	3.6	24
53	Asymmetric addition of diethylzinc to aromatic aldehydes using enantiomerically pure hydroxymethyl oxazoline ligands. <i>Tetrahedron: Asymmetry</i> , 1993 , 4, 649-650		24
52	Ruthenium catalyzed remote C4-selective C-H functionalisation of carbazoles via δ -activation. <i>Chemical Communications</i> , 2017 , 53, 13039-13042	5.8	23
51	Rhodium catalysed conjugate addition of a chiral alkenyltrifluoroborate salt: the enantioselective synthesis of hermitamides A and B. <i>Organic and Biomolecular Chemistry</i> , 2008 , 6, 4340-7	3.9	23
50	Solid state interconversion of cages and coordination networks via conformational change of a semi-rigid ligand. <i>Chemical Communications</i> , 2010 , 46, 5064-6	5.8	22

- 49 Lewis base-promoted hydrosilylation of cyclic malonates: synthesis of beta-substituted aldehydes and gamma-substituted amines. *Journal of Organic Chemistry*, **2009**, 74, 3599-602 4.2 22
- 48 Taxane diterpenes 5: Synthesis of the A- and C-rings: An unusual rearrangement of an N-hydroxyimino lactone. *Tetrahedron*, **1999**, 55, 6435-6452 2.4 22
- 47 Fine-tuning of ferrocene redox potentials towards multiplex DNA detection. *New Journal of Chemistry*, **2014**, 38, 5260-5263 3.6 21
- 46 A modular approach to catalytic synthesis using a dual-functional linker for Click and Suzuki coupling reactions. *Tetrahedron Letters*, **2010**, 51, 3913-3917 2 21
- 45 A simple and effective colorimetric technique for the detection of boronic acids and their derivatives. *Analytical Methods*, **2012**, 4, 2215 3.2 20
- 44 Ruthenium (II) complexes of the chelating phosphine borane H₂CIBDppm. *Journal of Organometallic Chemistry*, **2005**, 690, 2829-2834 2.3 20
- 43 Enantioselective rhodium-catalysed 1,4-additions of 2-heteroarylzinc donors using Me-DUPHOS. *Chemical Communications*, **2008**, 3795-7 5.8 19
- 42 An electrochemical gene detection assay utilising T7 exonuclease activity on complementary probe/target oligonucleotide sequences. *Electrochemistry Communications*, **2004**, 6, 1227-1232 5.1 19
- 41 Synthesis of Functionalised Phenylalanines Using Rhodium Catalysis in Water. *Advanced Synthesis and Catalysis*, **2003**, 345, 353-355 5.6 19
- 40 Signal transduction and amplification through enzyme-triggered ligand release and accelerated catalysis. *Chemical Science*, **2015**, 6, 4978-4985 9.4 18
- 39 Rhodium-catalyzed 1,4-additions to enantiopure acceptors: asymmetric synthesis of functionalized pyrrolizidinones. *Organic Letters*, **2009**, 11, 2491-4 6.2 18
- 38 Palladium catalysed mono-N-arylation of enantiopure diamines. *Tetrahedron: Asymmetry*, **1999**, 10, 1831-1834 18
- 37 Sequential Chelation-Assisted Aromatic C-H Functionalisation via Catalytic meta Sulfonation. *Synlett*, **2013**, 24, 2687-2690 2.2 17
- 36 Chelating Phosphane-Boranes as Hemilabile Ligands [Synthesis of [Mn(CO)₃(η²-H₃B₂Dppm)][BARF₄] and [Mn(CO)₄(η¹-H₃B₂Dppm)][BARF₄]. *European Journal of Inorganic Chemistry*, **2006**, 2006, 4068-4073 2.3 17
- 35 The arylation of bromo- and chloroenones using palladium-catalysed cross-coupling. *Tetrahedron Letters*, **2006**, 47, 2863-2866 2 17
- 34 Diphosphine mono-sulfides: readily available chiral monophosphines. *Tetrahedron: Asymmetry*, **2003**, 14, 705-710 17
- 33 Ratiometric electrochemical detection of hydrogen peroxide and glucose. *Organic and Biomolecular Chemistry*, **2017**, 15, 2459-2466 3.9 16
- 32 The effect of reaction conditions on the nature of cadmium 1,3,5-benzenetricarboxylate metal-organic frameworks. *Inorganica Chimica Acta*, **2011**, 366, 303-309 2.7 16

31	Catalytic enantioselective Dieckmann-type annulation: synthesis of pyrrolidines with quaternary stereogenic centers. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 1825-9	16.4	16
30	A New Method for Constructing Quaternary Carbon Centres: Tandem Rhodium-Catalysed 1,4-Addition/Intramolecular Cyclisation. <i>Advanced Synthesis and Catalysis</i> , 2007 , 349, 432-440	5.6	16
29	Probing subtle ligand effects in the enantioselective transfer hydrogenation of ketones. <i>Tetrahedron: Asymmetry</i> , 2000 , 11, 1845-1848		16
28	Tandem molybdenum catalyzed hydrosilylations: an expedient synthesis of beta-aryl aldehydes. <i>Organic Letters</i> , 2007 , 9, 4259-61	6.2	15
27	Concise synthesis of taxol a-ring components: Remote diastereoselective additions of alkenyl lithiums to aldehydes. <i>Tetrahedron Letters</i> , 1996 , 37, 9139-9142	2	15
26	Ruthenium-Catalyzed O- to S-Alkyl Migration: A Pseudoreversible Barton-McCombie Pathway. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 10944-8	16.4	14
25	Regioselective Transition-Metal-Catalyzed C-H Functionalization of Anilines. <i>Synthesis</i> , 2018 , 50, 2693-2706	6	13
24	Structure and reactivity of new phosphine ligands containing the hemi-labile sulfone moiety. <i>Dalton Transactions</i> , 2006 , 2251-62	4.3	13
23	Switching stereoselectivity in rhodium-catalysed 1,4-additions: The asymmetric synthesis of 2-substituted pyrrolizidinones. <i>Chemical Communications</i> , 2006 , 4389-91	5.8	11
22	Rhodium-catalysed conjugate addition of arylboronic acids to enantiopure dehydroamino acid derivatives. <i>Organic and Biomolecular Chemistry</i> , 2010 , 8, 5120-5	3.9	10
21	Copper Catalyzed Assembly of N-Aryloxazolidinones: Synthesis of Linezolid, Tedizolid, and Rivaroxaban. <i>European Journal of Organic Chemistry</i> , 2016 , 2016, 1305-1313	3.2	10
20	Exploring Rhodium-Catalysed Conjugate Addition of Chiral Alkenylboronates Using Chiral Olefin Ligands. <i>Synthesis</i> , 2010 , 2010, 3243-3247	2.9	9
19	Synthesis of Fluorescent Alanines by a Rhodium-Catalysed Conjugate Addition of Arylboronic Acids to Dehydroalanine Derivatives. <i>European Journal of Organic Chemistry</i> , 2013 , 2013, 550-556	3.2	8
18	A Peptide Nucleic Acid (PNA)-DNA Ferrocenyl Intercalator for Electrochemical Sensing. <i>Electroanalysis</i> , 2017 , 29, 917-922	3	8
17	Silyl-protected dioxaborinanes: application in the Suzuki cross-coupling reaction. <i>Organic and Biomolecular Chemistry</i> , 2014 , 12, 47-52	3.9	7
16	Ratiometric electrochemical detection of β -galactosidase. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 7122-7126	3.9	7
15	A Practical Synthesis of β -Substituted tert-Butyl Acrylates from Meldrum's Acid and Aldehydes. <i>Synthesis</i> , 2009 , 2009, 627-635	2.9	7
14	Recent developments in selective C-H functionalisation. <i>Organometallic Chemistry</i> , 2015 , 54-87	3	6

13	Ratiometric Electrochemistry: Improving the Robustness, Reproducibility and Reliability of Biosensors. <i>Molecules</i> , 2021 , 26,	4.8	6
12	Iterative Amination Strategy in the Synthesis of Peptidomimetics. <i>Chemistry Letters</i> , 1997 , 26, 1159-1160.	1.7	5
11	Catalytic applications of transition metals in organic synthesis. <i>Contemporary Organic Synthesis</i> , 1995 , 2, 65		5
10	Ruthenium-Catalyzed O- to S-Alkyl Migration: A Pseudoreversible Barton-McCombie Pathway. <i>Angewandte Chemie</i> , 2015 , 127, 11094-11098	3.6	4
9	Rhodium-catalysed 1,4-addition-halogenation: the crucial role of lithium halide. <i>Tetrahedron Letters</i> , 2008 , 49, 6217-6219	2	4
8	Indium Triflate Catalysed Ene and Friedel Crafts Additions to α -Imino Esters: A One-Pot Synthesis of α -Amino Acid Derivatives. <i>Letters in Organic Chemistry</i> , 2006 , 3, 228-230	0.6	4
7	Trans-selective rhodium catalysed conjugate addition of organoboron reagents to dihydropyranones. <i>Molecules</i> , 2015 , 20, 6153-66	4.8	3
6	Rhodium-Catalysed 1,4-Additions in Water: Synthesis of Succinic Esters and α -Amino Acid Derivatives. <i>Synlett</i> , 2004 , 2004, 2022-2024	2.2	3
5	Ratiometric electrochemical detection of Pd π Interactions: application towards electrochemical molecular logic gates. <i>Supramolecular Chemistry</i> , 2017 , 29, 749-757	1.8	2
4	A Highly Regioselective Palladium-Catalyzed O,S Rearrangement of Cyclic Thiocarbonates. <i>European Journal of Organic Chemistry</i> , 2017 , 2017, 6441-6444	3.2	2
3	An Organophosphorus(III)-Selective Chemodosimeter for the Ratiometric Electrochemical Detection of Phosphines. <i>Chemosensors</i> , 2019 , 7, 19	4	1
2	Coupling Reactions in Continuous-Flow Systems 2013 , 409-443		1
1	Indium(III) Triflate	1-6	