Catherine S J Cazin

List of Publications by Citations

126	5,615	41	71
papers	citations	h-index	g-index
163	6,189	6.8	6.03
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
126	The development of palladium catalysts for CC and Cheteroatom bond forming reactions of aryl chloride substrates. *Coordination Chemistry Reviews*, **2004**, 248, 2283-2321	23.2	535
125	N-heterocyclic carbene gold(I) and copper(I) complexes in C-H bond activation. *Accounts of Chemical Research*, **2012**, 45, 778-87	24.3	292
124	Carboxylation of N-H/C-H bonds using N-heterocyclic carbene copper(I) complexes. *Angewandte Chemie - International Edition*, **2010**, 49, 8674-7	16.4	275
123	Copper N-heterocyclic carbene complexes in catalysis. *Catalysis Science and Technology*, **2013**, 3, 912	5.5	159
122	Copper□NHC complexes in catalysis. *Coordination Chemistry Reviews*, **2015**, 293-294, 48-79	23.2	159
121	High-Activity Catalysts for Suzuki Coupling and Amination Reactions with Deactivated Aryl Chloride Substrates: Importance of the Palladium Source. *Organometallics*, **2003**, 22, 987-999	3.8	147
120	[Pd(IPr*)(cinnamyl)Cl]: an efficient pre-catalyst for the preparation of tetra-ortho-substituted biaryls by Suzuki-Miyaura cross-coupling. *Chemistry - A European Journal*, **2012**, 18, 4517-21	4.8	142
119	Highly active catalysts for the Suzuki coupling of aryl chlorides. *Chemical Communications*, **2001**, 1540-1	5.8	142
118	Simple mixed tricyclohexylphosphane-triarylphosphite complexes as extremely high-activity catalysts for the Suzuki coupling of aryl chlorides. *Angewandte Chemie - International Edition*, **2002**, 41, 4120-2	16.4	133
117	Copper N-heterocyclic carbene (NHC) complexes as carbene transfer reagents. *Chemical Communications*, **2010**, 46, 6924-5	5.8	113
116	Room-temperature activation of aryl chlorides in Suzuki-Miyaura coupling using a [Pd(micro-Cl)Cl(NHC)]2 complex (NHC = N-heterocyclic carbene). *Chemical Communications*, **2008**, 3190-2	5.8	111
115	Simple and versatile synthesis of copper and silver N-heterocyclic carbene complexes in water or organic solvents. *Dalton Transactions*, **2010**, 39, 4489-91	4.3	110
114	Copper-Catalyzed Regioselective Formation of Tri- and Tetrasubstituted Vinylboronates in Air. *ACS Catalysis*, **2014**, 4, 1564-1569	13.1	105
113	A novel catalytic one-pot synthesis of carbazoles via consecutive amination and C-H activation. *Chemical Communications*, **2002**, 2310-1	5.8	98
112	Silica-supported imine palladacycles□ecyclable catalysts for the Suzuki reaction?. *Journal of Organometallic Chemistry*, **2001**, 633, 173-181	2.3	96
111	A general synthetic route to [Cu(X)(NHC)] (NHC = N-heterocyclic carbene, X = Cl, Br, I) complexes. *Chemical Communications*, **2013**, 49, 10483-5	5.8	92
110	Carboxylation of N?H/C?H Bonds Using N-Heterocyclic Carbene Copper(I) Complexes. *Angewandte Chemie*, **2010**, 122, 8856-8859	3.6	86

109	Influence of a Very Bulky N-Heterocyclic Carbene in Gold-Mediated Catalysis. *Organometallics*, **2011**, 30, 5463-5470	3.8	81
108	The isolation of [Pd{OC(O)H}(H)(NHC)(PR3)] (NHC = N-heterocyclic carbene) and its role in alkene and alkyne reductions using formic acid. *Journal of the American Chemical Society*, **2013**, 135, 4588-91	16.4	80
107	Decarboxylation of aromatic carboxylic acids by gold(I)-N-heterocyclic carbene (NHC) complexes. *Chemical Communications*, **2011**, 47, 5455-7	5.8	80
106	Mixed Phosphite/N-Heterocyclic Carbene Complexes: Synthesis, Characterization and Catalytic Studies. *Organometallics*, **2010**, 29, 1443-1450	3.8	80
105	Mixed N-heterocyclic carbene/phosphite ruthenium complexes: towards a new generation of olefin metathesis catalysts. *Chemical Communications*, **2010**, 46, 7115-7	5.8	77
104	Mixed phosphine/N-heterocyclic carbene palladium complexes: synthesis, characterization and catalytic use in aqueous Suzuki-Miyaura reactions. *Dalton Transactions*, **2013**, 42, 7345-53	4.3	73
103	Heteroleptic Bis(N-heterocyclic carbene)Copper(I) Complexes: Highly Efficient Systems for the [3+2] Cycloaddition of Azides and Alkynes. *Organometallics*, **2012**, 31, 7969-7975	3.8	72
102	Reaction Intermediates in the Synthesis of New Hydrido, N-Heterocyclic Dicarbene Iridium(III) Pincer Complexes. *Organometallics*, **2009**, 28, 4028-4047	3.8	72
101	N-heterocyclic carbene copper(I) catalysed N-methylation of amines using CO2. *Dalton Transactions*, **2015**, 44, 18138-44	4.3	71
100	An unprecedented, figure-of-eight, dinuclear iridium(I) dicarbene and new iridium(III) 'pincer' complexes. *Chemical Communications*, **2008**, 3983-5	5.8	70
99	Highly Active [Pd(□Cl)(Cl)(NHC)]2 (NHC = N-Heterocyclic Carbene) in the Cross-Coupling of Grignard Reagents with Aryl Chlorides. *Organometallics*, **2009**, 28, 2915-2919	3.8	67
98	Phosphine and arsine adducts of N-donor palladacycles as catalysts in the Suzuki coupling of aryl bromides. *Dalton Transactions*, **2003**, 3350	4.3	64
97	Hydrogenation of C-C multiple bonds mediated by [Pd(NHC)(PCy(3))] (NHC=N-heterocyclic carbene) under mild reaction conditions. *Chemistry - A European Journal*, **2009**, 15, 2509-11	4.8	56
96	Copper(I) Complexes Bearing Carbenes Beyond Classical N-Heterocyclic Carbenes: Synthesis and Catalytic Activity in □lick Chemistry□*Advanced Synthesis and Catalysis*, **2015**, 357, 3155-3161	5.6	55
95	Synthesis and Reactivity of Ruthenium Phosphite Indenylidene Complexes. *Organometallics*, **2012**, 31, 7415-7426	3.8	52
94	Activation of hydrogen by palladium(0): formation of the mononuclear dihydride complex trans-[Pd(H)2(IPr)(PCy3)]. *Angewandte Chemie - International Edition*, **2009**, 48, 5182-6	16.4	51
93	Tandem ammonia borane dehydrogenation/alkene hydrogenation mediated by [Pd(NHC)(PR3)] (NHC = N-heterocyclic carbene) catalysts. *Chemical Communications*, **2013**, 49, 1005-7	5.8	48
92	An unusual cationic Ru(II) indenylidene complex and its Ru(III) derivative--efficient catalysts for high temperature olefin metathesis reactions. *Chemical Communications*, **2012**, 48, 1266-8	5.8	48

91	A cooperative Pd-Cu system for direct C-H bond arylation. *Chemical Communications*, **2014**, 50, 8927-9	5.8	45
90	Oxygen binding to [Pd(L)(L')] (L= NHC, L' = NHC or PR3, NHC = N-heterocyclic carbene). synthesis and structure of a paramagnetic trans-[Pd(NHC)2(μ1)-O2)2] complex. *Journal of the American Chemical Society*, **2011**, 133, 1290-3	16.4	45
89	A simple synthetic entryway into palladium cross-coupling catalysis. *Chemical Communications*, **2017**, 53, 7990-7993	5.8	43
88	Phosphites as ligands in ruthenium-benzylidene catalysts for olefin metathesis. *Chemical Communications*, **2011**, 47, 7060-2	5.8	43
87	Highly Active Well-Defined Palladium Precatalysts for the Efficient Amination of Aryl Chlorides. *Organometallics*, **2011**, 30, 4432-4436	3.8	43
86	Conducting Olefin Metathesis Reactions in Air: Breaking the Paradigm. *ACS Catalysis*, **2015**, 5, 2697-2701	13.1	42
85	Copper(i)-NHC complexes as NHC transfer agents. *Dalton Transactions*, **2017**, 46, 628-631	4.3	39
84	A new stable C(NHC)--CH--C(NHC)N-heterocyclic dicarbene ligand: its mono- and dinuclear Ir(I) and Ir(I)-Rh(I) complexes. *Dalton Transactions*, **2009**, 3824-32	4.3	38
83	Generalization of the Copper to Late-Transition-Metal Transmetallation to Carbenes beyond N-Heterocyclic Carbenes. *Chemistry - A European Journal*, **2016**, 22, 9404-9	4.8	38
82	Di- and tri-alkylphosphine adducts of S-donor palladacycles as catalysts in the Suzuki coupling of aryl chlorides. *Dalton Transactions*, **2004**, 3864-8	4.3	36
81	Recent advances in the design and use of immobilised N-heterocyclic carbene ligands for transition-metal catalysis. *Comptes Rendus Chimie*, **2009**, 12, 1173-1180	2.7	35
80	A simple access to transition metal cyclopropenylidene complexes. *Chemical Communications*, **2015**, 51, 4778-81	5.8	34
79	Highly efficient catalytic hydrodehalogenation of polychlorinated biphenyls (PCBs). *Chemical Communications*, **2009**, 5752-3	5.8	33
78	Synthesis of Homoleptic and Heteroleptic Bis-N-heterocylic Carbene Group 11 Complexes. *Organometallics*, **2015**, 34, 419-425	3.8	31
77	Palladium(0) NHC complexes: a new avenue to highly efficient phosphorescence. *Chemical Science*, **2015**, 6, 3248-3261	9.4	31
76	A Mechanistically and Operationally Simple Route to Metal-N-Heterocyclic Carbene (NHC) Complexes. *Chemistry - A European Journal*, **2020**, 26, 4515-4519	4.8	31
75	Selective ethenolysis and oestrogenicity of compounds from cashew nut shell liquid. *Green Chemistry*, **2014**, 16, 2846-2856	10	30
74	Simple tricyclohexylphosphine-palladium complexes as efficient catalysts for the Stille coupling of deactivated aryl chlorides. *Chemical Communications*, **2002**, 2608-9	5.8	30

73	Remarkable Base Effect in the Synthesis of Mono- and Dinuclear Iridium(I) NHC Complexes. *Organometallics*, **2009**, 28, 2460-2470	3.8	29
72	Mixed N-Heterocyclic Carbene/Phosphite Ruthenium Complexes: The Effect of a Bulkier NHC.. *Organometallics*, **2013**, 32, 6240-6247	3.8	28
71	Versatile Relay and Cooperative Palladium(0) N-Heterocyclic Carbene/Copper(I) N-Heterocyclic Carbene Catalysis for the Synthesis of Tri- and Tetrasubstituted Alkenes. *ChemCatChem*, **2015**, 7, 2108-2112	5.2	28
70	[Pd(NHC)(PR3)] (NHC = N-heterocyclic carbene) catalysed alcohol oxidation using molecular oxygen. *Dalton Transactions*, **2012**, 41, 12619-23	4.3	28
69	Energetics of the ruthenium-halide bond in olefin metathesis (pre)catalysts. *Dalton Transactions*, **2013**, 42, 7312-7	4.3	28
68	Mono- and dinuclear cobalt complexes with chelating or bridging bidentate P,N phosphino- and phosphinito-oxazoline ligands: synthesis, structures and catalytic ethylene oligomerisation. *Dalton Transactions*, **2007**, 4472-82	4.3	27
67	Towards environmentally friendlier Suzuki–Miyaura reactions with precursors of Pd-NHC (NHC = N-heterocyclic carbene) complexes. *Green Chemistry*, **2018**, 20, 3246-3252	10	27
66	Two commercially available initiators for the retarded ring-opening metathesis polymerization of dicyclopentadiene. *Monatshefte Für Chemie*, **2014**, 145, 1513-1517	1.4	26
65	[Pd(NHC)(Eㅁ Cl)Cl]: Versatile and Highly Reactive Complexes for Cross-Coupling Reactions that Avoid Formation of Inactive Pd(I) Off-Cycle Products. *IScience*, **2020**, 23, 101377	6.1	24
64	Dinuclear N-heterocyclic carbene copper(I) complexes. *Coordination Chemistry Reviews*, **2018**, 355, 380-403	23.2	24
63	The "weak base route" leading to transition metal-N-heterocyclic carbene complexes. *Chemical Communications*, **2021**, 57, 3836-3856	5.8	23
62	Simple Mixed Tricyclohexylphosphane–Triarylphosphite Complexes as Extremely High-Activity Catalysts for the Suzuki Coupling of Aryl Chlorides. *Angewandte Chemie*, **2002**, 114, 4294-4296	3.6	22
61	Copper N-Heterocyclic Carbene Complexes As Active Catalysts for the Synthesis of 2-Substituted Oxazolines from Nitriles and Aminoalcohols. *Journal of Organic Chemistry*, **2015**, 80, 9910-4	4.2	21
60	Sequential Functionalization of Alkynes and Alkenes Catalyzed by Gold(I) and Palladium(II) N-Heterocyclic Carbene Complexes. *ChemCatChem*, **2016**, 8, 3381-3388	5.2	21
59	Neutral Dinuclear Copper(I)-NHC Complexes: Synthesis and Application in the Hydrosilylation of Ketones. *ACS Catalysis*, **2017**, 7, 238-242	13.1	19
58	Inner-Sphere versus Outer-Sphere Coordination of BF_4^- in a NHC-Gold(I) Complex. *Organometallics*, **2017**, 36, 2861-2869	3.8	19
57	Transition Metal-Catalyzed Carboxylation of Organic Substrates with Carbon Dioxide. *Topics in Organometallic Chemistry*, **2015**, 225-278	0.6	19
56	[Pd(Eㅁ Cl)Cl(IPr*)]2: a highly hindered pre-catalyst for the synthesis of tetra-ortho-substituted biaryls via Grignard reagent cross-coupling. *Organic and Biomolecular Chemistry*, **2014**, 12, 5586-9	3.9	19

55	Light-Stable Silver N-Heterocyclic Carbene Catalysts for the Alkynylation of Ketones in Air. *ChemCatChem*, **2016**, 8, 209-213	5.2	19
54	Highly active copper-N-heterocyclic carbene catalysts for the synthesis of phenols. *RSC Advances*, **2012**, 2, 11675	3.7	18
53	Highly Active [Pd(□Cl)Cl(NHC)]2 Complexes in the Mizoroki□Heck Reaction. *European Journal of Inorganic Chemistry*, **2013**, 2013, 2007-2010	2.3	18
52	Alkyne insertion reactions of [RuH(□2-S2CNEt2)(CO)(PPh3)2]: synthesis of alkenyl, alkynyl and enynyl complexes. *Journal of Organometallic Chemistry*, **2000**, 598, 20-23	2.3	18
51	Homoleptic and heteroleptic bis-NHC Cu(I) complexes as carbene transfer reagents. *Dalton Transactions*, **2016**, 45, 4970-3	4.3	18
50	Synthesis and reactivity of [Au(NHC)(Bpin)] complexes. *Chemical Communications*, **2019**, 55, 6799-6802	5.8	17
49	Reactions of Amines with Zwitterionic Quinoneimines: Synthesis of New Anionic and Zwitterionic Quinonoids. *European Journal of Organic Chemistry*, **2009**, 2009, 3340-3350	3.2	17
48	Au???H-C Hydrogen Bonds as Design Principle in Gold(I) Catalysis. *Angewandte Chemie - International Edition*, **2021**, 60, 21014-21024	16.4	17
47	Hydrophenoxylation of internal alkynes catalysed with a heterobimetallic Cu-NHC/Au-NHC system. *Dalton Transactions*, **2017**, 46, 2439-2444	4.3	16
46	Selective NaOH-catalysed hydration of aromatic nitriles to amides. *Catalysis Science and Technology* , **2015**, 5, 2865-2868	5.5	16
45	Ruthenium Olefin Metathesis Catalysts Containing Fluoride. *ACS Catalysis*, **2015**, 5, 3932-3939	13.1	16
44	Bulky-Yet-Flexible Carbene Ligands and Their Use in Palladium Cross-Coupling. *Inorganics*, **2019**, 7, 78	2.9	15
43	Palladate Precatalysts for the Formation of C□N and C□C Bonds. *Organometallics*, **2019**, 38, 2812-2817	3.8	15
42	Continuous Flow Synthesis of Metal-NHC Complexes*. *Chemistry - A European Journal*, **2021**, 27, 5653-5657	4.8	15
41	Simple Synthetic Routes to Carbene-M-Amido (M=Cu, Ag, Au) Complexes for Luminescence and Photocatalysis Applications. *Chemistry - A European Journal*, **2021**, 27, 11904-11911	4.8	15
40	Gold(i) catalysed regio- and stereoselective intermolecular hydroamination of internal alkynes: towards functionalised azoles. *Organic and Biomolecular Chemistry*, **2019**, 17, 3805-3811	3.9	14
39	Phosphite ligands in Ru-based olefin metathesis catalysts. *Monatshefte F□ Chemie*, **2015**, 146, 1043-1052	1.4	14
38	Insights into the Catalytic Activity of [Pd(NHC)(cin)Cl] (NHC=IPr, IPrCl, IPrBr) Complexes in the Suzuki□Miyaura Reaction. *ChemCatChem*, **2018**, 10, 601-611	5.2	14

37	Structure and reactivity of new iridium complexes with bis(oxazoline)-phosphonito ligands. *Inorganic Chemistry*, **2009**, 48, 11415-24	5.1	14
36	Mechanochemical synthesis of Cu(I)-N-heterocyclic carbene complexes. *Green Chemistry*, **2020**, 22, 5253-5256	9.8	14
35	Expedient Syntheses of Neutral and Cationic Au(I)–NHC Complexes. *Organometallics*, **2017**, 36, 3645-3653	3.8	13
34	Catalytic and Structural Studies of Hoveyda–Grubbs Type Pre-Catalysts Bearing Modified Ether Ligands. *Advanced Synthesis and Catalysis*, **2012**, 354, 2734-2742	5.6	13
33	Sustainability in Ru- and Pd-based catalytic systems using N-heterocyclic carbenes as ligands. *Chemical Society Reviews*, **2021**, 50, 3094-3142	58.5	13
32	Investigating the Structure and Reactivity of Azolyl-Based Copper(I)–NHC Complexes: The Role of the Anionic Ligand. *ACS Catalysis*, **2017**, 7, 8176-8183	13.1	12
31	Transition metal bifluorides. *Coordination Chemistry Reviews*, **2016**, 307, 65-80	23.2	11
30	The role of the metal in the dual-metal catalysed hydrophenoxylation of diphenylacetylene. *Catalysis Science and Technology*, **2018**, 8, 3638-3648	5.5	10
29	NHC–Copper Complexes and their Applications **2014**, 199-242		9
28	[Pd(NHC)(PR3)] Complexes: Versatile Tools for Tandem Dehydrogenation-Hydrogenation Processes. *Synlett*, **2013**, 24, 1877-1881	2.2	9
27	Synthesis of Di-Substituted Alkynes via Palladium-Catalyzed Decarboxylative Coupling and C-H Activation. *ChemistrySelect*, **2019**, 4, 5-9	1.8	9
26	Mizoroki–Heck Cross-Coupling of Acrylate Derivatives with Aryl Halides Catalyzed by Palladate Pre-Catalysts. *European Journal of Inorganic Chemistry*, **2019**, 2019, 4695-4699	2.3	8
25	A straightforward metal-free synthesis of 2-substituted thiazolines in air. *Green Chemistry*, **2015**, 17, 3090-3092	9.8	8
24	Copper(I)–N-Heterocyclic Carbene Complexes as Efficient Catalysts for the Synthesis of 1,4-Disubstituted 1,2,3-Sulfonyltriazoles in Air. *Organometallics*, **2018**, 37, 679-683	3.8	8
23	Synthesis, characterization and catalytic activity of stable [(NHC)H][ZnXY2] (NHC =N-Heterocyclic carbene, X, Y = Cl, Br) species. *Journal of Molecular Catalysis A*, **2016**, 423, 85-91		7
22	Electronic effects in mixed N-heterocyclic carbene/phosphite indenylidene ruthenium metathesis catalysts. *Dalton Transactions*, **2019**, 48, 11326-11337	4.3	6
21	Ruthenium indenylidene "1(st) generation" olefin metathesis catalysts containing triisopropyl phosphite. *Beilstein Journal of Organic Chemistry*, **2015**, 11, 1520-7	2.5	6
20	Au???HC Hydrogen Bonds as Design Principle in Gold(I) Catalysis. *Angewandte Chemie*, **2021**, 133, 21182-21192	3.6	4

19	Au(I)-Catalyzed Hydration of 1-Iodoalkynes Leading to -Iodoketones. *European Journal of Organic Chemistry*, **2020**, 2020, 6790-6794	3.2	3
18	Aerobic synthesis of -sulfonylamidines mediated by N-heterocyclic carbene copper(I) catalysts. *Beilstein Journal of Organic Chemistry*, **2020**, 16, 482-491	2.5	3
17	Ruthenium-Indenylidene and Other Alkylidene Containing Olefin Metathesis Catalysts **2014**, 417-436		3
16	Medical Applications of NHC-Gold and -Copper Complexes **2014**, 173-198		3
15	General Mechanochemical Synthetic Protocol to Late Transition Metal-NHC (N-Heterocyclic Carbene) Complexes. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 9625-9631	8.3	3
14	Cu-NHC azide complex: synthesis and reactivity. *Chemical Communications*, **2019**, 55, 12068-12071	5.8	3
13	Synthesis and catalytic activity of palladium complexes bearing -heterocyclic carbenes (NHCs) and 1,4,7-triaza-9-phosphatricyclo[5.3.2.1]tridecane (CAP) ligands. *Dalton Transactions*, **2021**, 50, 9491-9499	4.3	3
12	Conversion of Pd(I) off-cycle species into highly efficient cross-coupling catalysts. *Dalton Transactions*, **2021**, 50, 5420-5427	4.3	3
11	N-Heterocyclic Carbenes: An Introductory Overview. *Catalysis By Metal Complexes*, **2010**, 1-22		2
10	Synthesis of Gold(I)-Trifluoromethyl Complexes and their Role in Generating Spectroscopic Evidence for a Gold(I)-Difluorocarbene Species. *Chemistry - A European Journal*, **2021**, 27, 8461-8467	4.8	2
9	Simple synthesis of [Ru(CO)(NHC)(-cymene)] complexes and their use in transfer hydrogenation catalysis. *Dalton Transactions*, **2021**, 50, 13012-13019	4.3	2
8	N-heterocyclic carbene complexes of palladium in oxygen atom transfer reactions involving the making and breaking of N-O bonds. *Inorganica Chimica Acta*, **2017**, 468, 285-293	2.7	1
7	A Simple Synthetic Route to Well-Defined [Pd(NHC)Cl(1-tBu-indenyl)] Pre-catalysts for Cross-Coupling Reactions. *European Journal of Inorganic Chemistry*,	2.3	1
6	Synthetic Access to Ring-Expanded N-Heterocyclic Carbene (RE-NHC) Copper Complexes and Their Performance in Click Chemistry. *Organometallics*, **2021**, 40, 1252-1261	3.8	1
5	Ligand-Directed Reactivity in Dioxygen and Water Binding to cis-[Pd(NHC)(-O)]. *Journal of the American Chemical Society*, **2018**, 140, 264-276	16.4	1
4	Synthetic Access to Aromatic -Haloketones. *Molecules*, **2022**, 27, 3583	4.8	1
3	A Simple Synthetic Route to [Rh(acac)(CO)(NHC)] Complexes: Ligand Property Diagnostic Tools and Precatalysts. *European Journal of Inorganic Chemistry*, **2021**, 2021, 3506-3511	2.3	0
2	Enthalpies of ligand substitution for [Mo(-C5H5)(CO)2(NO)] -The role of -bonding effects in metal-ligand bond strengths. *Journal of Chemical Thermodynamics*, **2014**, 73, 156-162	2.9	

List of Publications

1 1. Grignard Reagents and Palladium **2016**, 1-60