Mark R Crimmin

List of Publications by Citations

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160

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114 4,326 35 papers citations h-index

4,941 8.3 5.98 ext. citations avg, IF L-index

62

g-index

#	Paper	IF	Citations
114	Calcium-mediated intramolecular hydroamination catalysis. <i>Journal of the American Chemical Society</i> , 2005 , 127, 2042-3	16.4	345
113	Intramolecular hydroamination of aminoalkenes by calcium and magnesium complexes: a synthetic and mechanistic study. <i>Journal of the American Chemical Society</i> , 2009 , 131, 9670-85	16.4	237
112	Heterofunctionalization catalysis with organometallic complexes of calcium, strontium and barium. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2010 , 466, 927-963	2.4	228
111	Calcium-Catalyzed Intermolecular Hydrophosphination. <i>Organometallics</i> , 2007 , 26, 2953-2956	3.8	173
110	Heavier Group 2 Element Catalyzed Hydrophosphination of Carbodiimides. <i>Organometallics</i> , 2008 , 27, 497-499	3.8	129
109	Triazenide complexes of the heavier alkaline earths: synthesis, characterization, and suitability for hydroamination catalysis. <i>Inorganic Chemistry</i> , 2008 , 47, 7366-76	5.1	127
108	Heavier group 2 metals and intermolecular hydroamination: a computational and synthetic assessment. <i>Journal of the American Chemical Society</i> , 2009 , 131, 12906-7	16.4	125
107	Cation Charge Density and Precatalyst Selection in Group 2-Catalyzed Aminoalkene Hydroamination. <i>Organometallics</i> , 2011 , 30, 1493-1506	3.8	110
106	Heavier alkaline Earth amides as catalysts for the Tischenko reaction. <i>Organic Letters</i> , 2007 , 9, 331-3	6.2	95
105	Oxidative addition of carbon-fluorine and carbon-oxygen bonds to Al(I). <i>Chemical Communications</i> , 2015 , 51, 15994-6	5.8	93
104	Kinetic stability of heteroleptic (beta-diketiminato) heavier alkaline-earth (Ca, Sr, Ba) amides. <i>Dalton Transactions</i> , 2005 , 278-84	4.3	91
103	Homogeneous Catalysis with Organometallic Complexes of Group 2. <i>Topics in Organometallic Chemistry</i> , 2013 , 191-241	0.6	90
102	Bis(trimethylsilyl)methyl derivatives of calcium, strontium and barium: potentially useful dialkyls of the heavy alkaline earth elements. <i>Chemistry - A European Journal</i> , 2008 , 14, 11292-5	4.8	89
101	A step beyond the Feltham-Enemark notation: spectroscopic and correlated ab initio computational support for an antiferromagnetically coupled M(II)-(NO)- description of Tp*M(NO) (M = Co, Ni). <i>Journal of the American Chemical Society</i> , 2011 , 133, 18785-801	16.4	83
100	Zirconocene dichloride catalyzed hydrodefluorination of C(sp 2)-F bonds. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 12559-63	16.4	81
99	Reactions of Fluoroalkenes with an Aluminium(I) Complex. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 6638-6642	16.4	72
98	Heavier Group-2-Element Catalyzed Hydroamination of Carbodiimides. <i>European Journal of Inorganic Chemistry</i> , 2008 , 2008, 4173-4179	2.3	72

(2004-2018)

97	A combined experimental and computational study on the reaction of fluoroarenes with Mg-Mg, Mg-Zn, Mg-Al and Al-Zn bonds. <i>Chemical Science</i> , 2018 , 9, 2348-2356	9.4	65
96	Organometallic chemistry using partially fluorinated benzenes. <i>Chemical Communications</i> , 2017 , 53, 361	5- 863	3 63
95	Beta-diketiminato calcium and magnesium amides; model complexes for hydroamination catalysis. <i>Inorganic Chemistry</i> , 2009 , 48, 4445-53	5.1	63
94	Trifluoromethyl coordination and C-F bond activation at calcium. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 6339-42	16.4	59
93	Addition of Carbon-Fluorine Bonds to a Mg(I)-Mg(I) Bond: An Equivalent of Grignard Formation in Solution. <i>Journal of the American Chemical Society</i> , 2016 , 138, 12763-12766	16.4	58
92	Synthesis, Characterization, and Solution Lability of N-Heterocyclic Carbene Adducts of the Heavier Group 2 Bis(trimethylsilyl)amides. <i>Organometallics</i> , 2008 , 27, 3939-3946	3.8	55
91	Diketiminato Calcium Acetylides: Synthesis, Solution Dimerization, and Catalytic Carbon arbon Bond Formation. <i>Organometallics</i> , 2008 , 27, 6300-6306	3.8	52
90	Heavier group 2 element-catalysed hydroamination of isocyanates. <i>Chemical Communications</i> , 2008 , 520	06:8	51
89	Dimerization of Diketiminato Calcium Complexes through Dihapto-Acetylide Ligation. Organometallics, 2005 , 24, 1184-1188	3.8	51
88	Magnesium, zinc, aluminium and gallium hydride complexes of the transition metals. <i>Chemical Communications</i> , 2017 , 53, 1348-1365	5.8	50
87	Selective Oxidation of Methane to Methanol Over Cu- and Fe-Exchanged Zeolites: The Effect of Si/Al Molar Ratio. <i>Catalysis Letters</i> , 2016 , 146, 483-492	2.8	50
86	Room temperature catalytic carbon-hydrogen bond alumination of unactivated arenes: mechanism and selectivity. <i>Chemical Science</i> , 2018 , 9, 5435-5440	9.4	49
85	Reversible alkene binding and allylic C-H activation with an aluminium(i) complex. <i>Chemical Science</i> , 2019 , 10, 2452-2458	9.4	47
84	Reactions of Diketiminate-Stabilized Calcium Amides with 9-Borabicyclo[3.3.1]nonane (9-BBN). <i>Organometallics</i> , 2007 , 26, 4076-4079	3.8	42
83	A hexagonal planar transition-metal complex. <i>Nature</i> , 2019 , 574, 390-393	50.4	39
82	Reactions of Fluoroalkenes with an Aluminium(I) Complex. <i>Angewandte Chemie</i> , 2018 , 130, 6748-6752	3.6	38
81	Addition of aluminium, zinc and magnesium hydrides to rhodium(iii). Chemical Science, 2015, 6, 5617-562	23.4	38
80	Solution- and solid-state characterisation of a configurationally-stable beta-diketiminato-supported calcium primary amide. <i>Dalton Transactions</i> , 2004 , 3166-8	4.3	38

79	Beryllium derivatives of a phenyl-substituted Ediketiminate: a well-defined ring opening reaction of tetrahydrofuran. <i>Dalton Transactions</i> , 2013 , 42, 9720-6	4.3	35
78	Bis(diphenylphosphido) derivatives of the heavier group 2 elements. <i>Inorganic Chemistry</i> , 2007 , 46, 1041	1 9 Б	35
77	Carbodiimide insertion reactions of homoleptic heavier alkaline earth amides and phosphides. <i>Dalton Transactions</i> , 2010 , 39, 7393-400	4.3	33
76	Carbon Chain Growth by Sequential Reactions of CO and CO with [W(CO)] and an Aluminum(I) Reductant. <i>Journal of the American Chemical Society</i> , 2018 , 140, 13614-13617	16.4	33
75	Enantioselective Synthesis of the Cyclopiazonic Acid Family Using Sulfur Ylides. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 1346-1350	16.4	32
74	Ligand-based carbon-nitrogen bond forming reactions of metal dinitrosyl complexes with alkenes and their application to C-H bond functionalization. <i>Accounts of Chemical Research</i> , 2014 , 47, 517-29	24.3	32
73	Zirconocene Dichloride Catalyzed Hydrodefluorination of C?F bonds. <i>Angewandte Chemie</i> , 2012 , 124, 12727-12731	3.6	32
72	Bis(EB-H) complexes of copper(i): precursors to a heterogeneous amine-borane dehydrogenation catalyst. <i>Dalton Transactions</i> , 2015 , 44, 12530-4	4.3	30
71	Catalytic hydroacetylenation of carbodiimides with homoleptic alkaline earth hexamethyldisilazides. <i>Dalton Transactions</i> , 2014 , 43, 14249-56	4.3	30
70	Functionalisation of Carbon E luorine Bonds with Main Group Reagents. <i>Synthesis</i> , 2017 , 49, 810-821	2.9	28
69	Weakly Coordinated Zinc and Aluminum EComplexes of Copper(I). Organometallics, 2014, 33, 2685-2688	3.8	28
68	Catalytic 2,3,4-hexatriene formation by terminal alkyne coupling at calcium. <i>Chemical Communications</i> , 2009 , 2299-301	5.8	28
67	Selective Reduction of CO to a Formate Equivalent with Heterobimetallic GoldCopper Hydride Complexes. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 15127-15130	16.4	26
66	Defluorosilylation of Industrially Relevant Fluoroolefins Using Nucleophilic Silicon Reagents. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 12514-12518	16.4	26
65	Yttrium-Catalyzed AmineBilane Dehydrocoupling: Extended Reaction Scope with a Phosphorus-Based Ligand. <i>Organometallics</i> , 2015 , 34, 4369-4375	3.8	26
64	Synthesis of ⊞iketiminato calcium silylamides and their reactions with triethylaluminium. <i>New Journal of Chemistry</i> , 2010 , 34, 1572	3.6	26
63	Catalytic and Stoichiometric Cumulene Formation within Dimeric Group 2 Acetylides. Organometallics, 2013 , 32, 4961-4972	3.8	25
62	Insertion reactions of beta-diketiminate-stabilised calcium amides with 1,3-dialkylcarbodiimides. Dalton Transactions, 2008, 4474-81	4.3	25

(2020-2014)

61	Rhodium Catalyzed, Carbon Hydrogen Bond Directed Hydrodefluorination of Fluoroarenes. <i>Organometallics</i> , 2014 , 33, 7027-7030	3.8	24
60	Cobalt-mediated, enantioselective synthesis of C(2) and C(1) dienes. <i>Journal of the American Chemical Society</i> , 2010 , 132, 16365-7	16.4	24
59	Beta-diketiminate C-H activation with heavier group 2 alkyls. <i>Dalton Transactions</i> , 2009 , 9715-7	4.3	24
58	Reversible Coordination of Boron-, Aluminum-, Zinc-, Magnesium-, and Calcium-Hydrogen Bonds to Bent {CuL} Fragments: Heavy [Complexes of the Lightest Coinage Metal. <i>Inorganic Chemistry</i> , 2017 , 56, 8669-8682	5.1	23
57	Reversibility in the protonolysis of a beta-diketiminate stabilised calcium bis(trimethylsilyl)amide with benzylamine. <i>Dalton Transactions</i> , 2008 , 1292-4	4.3	23
56	Isomerization of Cyclooctadiene to Cyclooctyne with a Zinc/Zirconium Heterobimetallic Complex. Angewandte Chemie - International Edition, 2016, 55, 6951-3	16.4	22
55	Reactivity of [HC{(C(Me)N(Dipp))}2Ca{N(SiMe3)2}(THF)] (Dipp = C6H3iPr2-2,6) with C⊞ acids: Synthesis of heteroleptic calcium B-organometallics. <i>Journal of Organometallic Chemistry</i> , 2006 , 691, 1242-1250	2.3	21
54	Reactions of an Aluminum(I) Reagent with 1,2-, 1,3-, and 1,5-Dienes: Dearomatization, Reversibility, and a Pericyclic Mechanism. <i>Inorganic Chemistry</i> , 2020 , 59, 4608-4616	5.1	20
53	Trajectory of Approach of a Zinc-Hydrogen Bond to Transition Metals. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 16031-16034	16.4	20
52	Reactions of Fluoroalkanes with Mg-Mg Bonds: Scope, sp C-F/sp C-F Coupling and Mechanism. <i>Chemistry - A European Journal</i> , 2018 , 24, 16282-16286	4.8	20
51	Preparation and properties of a series of structurally diverse aluminium hydrides supported by Ediketiminate and bis(amide) ligands. <i>Dalton Transactions</i> , 2013 , 42, 15199-206	4.3	18
50	Palladium-Catalyzed Carbon-Fluorine and Carbon-Hydrogen Bond Alumination of Fluoroarenes and Heteroarenes. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 12687-12691	16.4	18
49	Breaking Carbon E luorine Bonds with Main Group Nucleophiles. <i>Synlett</i> , 2019 , 30, 2233-2246	2.2	16
48	A metallmide dependent, catalytic CH functionalisation of triphenylphosphonium methylide. <i>Chemical Science</i> , 2013 , 4, 691-695	9.4	15
47	Activation and Functionalization of C-C Bonds of Alkylidene Cyclopropanes at Main Group Centers. <i>Journal of the American Chemical Society</i> , 2020 , 142, 11967-11971	16.4	14
46	A Highly Chemoselective, Zr-Catalyzed CD Bond Functionalization of Benzofuran. <i>Organometallics</i> , 2013 , 32, 5260-5262	3.8	14
45	Binuclear Hiketiminate complexes of copper(i). Dalton Transactions, 2017, 46, 2081-2090	4.3	13
44	Cooperative strategies for CO homologation. <i>Dalton Transactions</i> , 2020 , 49, 16587-16597	4.3	13

43	Synthesis of [RuCl2(NO)2(THF)] and its double C-N bond-forming reactions with alkenes. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 4484-7	16.4	13
42	Mild spCarbon-Oxygen Bond Activation by an Isolable Ruthenium(II) Bis(dinitrogen) Complex: Experiment and Theory. <i>Organometallics</i> , 2017 , 36, 3654-3663	3.8	12
41	Wittig-olefination via an yttrium-coordinated betaine. Chemical Communications, 2012, 48, 1745-7	5.8	12
40	[(TMEDA)Co(NO)2][BPh4]: A versatile synthetic entry point to four and five coordinate {Co(NO)2}10 complexes. <i>Journal of Organometallic Chemistry</i> , 2011 , 696, 3974-3981	2.3	12
39	Heterobimetallic Rebound: A Mechanism for Diene-to-Alkyne Isomerization with MZr Hydride Complexes (M = Al, Zn, and Mg). <i>Organometallics</i> , 2018 , 37, 949-956	3.8	11
38	Palladium-catalysed C-F alumination of fluorobenzenes: mechanistic diversity and origin of selectivity. <i>Chemical Science</i> , 2020 , 11, 7842-7849	9.4	11
37	Palladium-catalysed magnesiation of benzene. <i>Chemical Communications</i> , 2018 , 54, 12326-12328	5.8	11
36	Selective Reduction of CO2 to a Formate Equivalent with Heterobimetallic GoldCopper Hydride Complexes. <i>Angewandte Chemie</i> , 2017 , 129, 15323-15326	3.6	10
35	Unravelling nucleophilic aromatic substitution pathways with bimetallic nucleophiles. <i>Chemical Communications</i> , 2019 , 55, 1805-1808	5.8	10
34	Reversible insertion of CO into an aluminium-carbon bond. <i>Chemical Communications</i> , 2019 , 55, 6181-61	8 48	10
33	Defluoroalkylation of sp C-F Bonds of Industrially Relevant Hydrofluoroolefins. <i>Chemistry - A European Journal</i> , 2020 , 26, 5365-5368	4.8	10
32	Tunable Binding of Dinitrogen to a Series of Heterobimetallic Hydride Complexes. <i>Organometallics</i> , 2018 , 37, 4521-4526	3.8	10
31	Chemoselective C-C Bond Activation of the Most Stable Ring in Biphenylene*. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 2619-2623	16.4	10
30	Catalytic C-H to C-M (M = Al, Mg) bond transformations with heterometallic complexes. <i>Chemical Science</i> , 2020 , 12, 1993-2000	9.4	10
29	Re-evaluating selectivity as a determining factor in peroxidative methane oxidation by multimetallic copper complexes. <i>Catalysis Science and Technology</i> , 2015 , 5, 4108-4115	5.5	9
28	Isolation of an unusual [Cu] nanocluster through sequential addition of copper(i) to a polynucleating ligand. <i>Dalton Transactions</i> , 2017 , 46, 2077-2080	4.3	8
27	Dihydridoboranes: Selective Reagents for Hydroboration and Hydrodefluorination. <i>Organic Letters</i> , 2019 , 21, 7289-7293	6.2	8
26	Defluorosilylation of Industrially Relevant Fluoroolefins Using Nucleophilic Silicon Reagents. Angewandte Chemie, 2019 , 131, 12644-12648	3.6	8

25	Synthesis and coordination chemistry of tri-substituted benzamidrazones. <i>Dalton Transactions</i> , 2011 , 40, 514-22	4.3	8
24	Group 11 Borataalkene Complexes: Models for Alkene Activation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 12013-12019	16.4	8
23	Isomerization of Cyclooctadiene to Cyclooctyne with a Zinc/Zirconium Heterobimetallic Complex. <i>Angewandte Chemie</i> , 2016 , 128, 7065-7067	3.6	8
22	Yttrium-catalysed dehydrocoupling of alanes with amines. <i>Chemical Communications</i> , 2014 , 50, 9536-8	5.8	7
21	Defluorosilylation of trifluoromethane: upgrading an environmentally damaging fluorocarbon. <i>Chemical Communications</i> , 2020 , 56, 12929-12932	5.8	7
20	Stereoisomerism of bis(Ezincane) Complexes: Evidence for an Intramolecular Pathway. <i>Chemistry - A European Journal</i> , 2017 , 23, 5682-5686	4.8	6
19	Selective Hydrodefluorination of Hexafluoropropene to Industrially Relevant Hydrofluoroolefins. <i>Advanced Synthesis and Catalysis</i> , 2019 , 361, 3351-3358	5.6	6
18	Catalyst control of selectivity in the C-O bond alumination of biomass derived furans. <i>Chemical Science</i> , 2020 , 11, 7850-7857	9.4	6
17	Trajectory of Approach of a Zinc⊞ydrogen Bond to Transition Metals. <i>Angewandte Chemie</i> , 2016 , 128, 16265-16268	3.6	6
16	Organocatalyzed Fluoride Metathesis. <i>Organic Letters</i> , 2020 , 22, 9351-9355	6.2	6
16	Organocatalyzed Fluoride Metathesis. <i>Organic Letters</i> , 2020 , 22, 9351-9355 Group 11 Borataalkene Complexes: Models for Alkene Activation. <i>Angewandte Chemie</i> , 2021 , 133, 1212		
15	Group 11 Borataalkene Complexes: Models for Alkene Activation. <i>Angewandte Chemie</i> , 2021 , 133, 1212 Enantioselective Synthesis of the Cyclopiazonic Acid Family Using Sulfur Ylides. <i>Angewandte Chemie</i>	20 ₅ .16217	266
15 14	Group 11 Borataalkene Complexes: Models for Alkene Activation. <i>Angewandte Chemie</i> , 2021 , 133, 1212 Enantioselective Synthesis of the Cyclopiazonic Acid Family Using Sulfur Ylides. <i>Angewandte Chemie</i> , 2018 , 130, 1360-1364	2 0₅.162 17 3.6	2 6 6
15 14 13	Group 11 Borataalkene Complexes: Models for Alkene Activation. <i>Angewandte Chemie</i> , 2021 , 133, 1212 Enantioselective Synthesis of the Cyclopiazonic Acid Family Using Sulfur Ylides. <i>Angewandte Chemie</i> , 2018 , 130, 1360-1364 The partial dehydrogenation of aluminium dihydrides. <i>Chemical Science</i> , 2019 , 10, 8083-8093 Palladium-Catalyzed Carbon Eluorine and Carbon Hydrogen Bond Alumination of Fluoroarenes	3.6 9.4	2 6 5 4
15 14 13	Group 11 Borataalkene Complexes: Models for Alkene Activation. <i>Angewandte Chemie</i> , 2021 , 133, 1212 Enantioselective Synthesis of the Cyclopiazonic Acid Family Using Sulfur Ylides. <i>Angewandte Chemie</i> , 2018 , 130, 1360-1364 The partial dehydrogenation of aluminium dihydrides. <i>Chemical Science</i> , 2019 , 10, 8083-8093 Palladium-Catalyzed Carbon Bluorine and Carbon Hydrogen Bond Alumination of Fluoroarenes and Heteroarenes. <i>Angewandte Chemie</i> , 2017 , 129, 12861-12865 Palladium-Catalysed C-H Bond Zincation of Arenes: Scope, Mechanism, and the Role of	3.6 9.4 3.6	266 5 5 4
15 14 13 12	Group 11 Borataalkene Complexes: Models for Alkene Activation. <i>Angewandte Chemie</i> , 2021 , 133, 1212 Enantioselective Synthesis of the Cyclopiazonic Acid Family Using Sulfur Ylides. <i>Angewandte Chemie</i> , 2018 , 130, 1360-1364 The partial dehydrogenation of aluminium dihydrides. <i>Chemical Science</i> , 2019 , 10, 8083-8093 Palladium-Catalyzed Carbon Bluorine and Carbon Hydrogen Bond Alumination of Fluoroarenes and Heteroarenes. <i>Angewandte Chemie</i> , 2017 , 129, 12861-12865 Palladium-Catalysed C-H Bond Zincation of Arenes: Scope, Mechanism, and the Role of Heterometallic Intermediates. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 6145-6153	3.6 9.4 3.6	266 5 5 4

7	Palladium-Catalysed CH Bond Zincation of Arenes: Scope, Mechanism, and the Role of Heterometallic Intermediates. <i>Angewandte Chemie</i> , 2021 , 133, 6210-6218	3.6	3
6	Repurposing of F-gases: challenges and opportunities in fluorine chemistry. <i>Chemical Society Reviews</i> ,	58.5	2
5	Reactions of aluminium(i) with transition metal carbonyls: scope, mechanism and selectivity of CO homologation. <i>Chemical Science</i> , 2021 , 12, 14845-14854	9.4	1
4	Chemoselective CI Bond Activation of the Most Stable Ring in Biphenylene**. <i>Angewandte Chemie</i> , 2021 , 133, 2651-2655	3.6	1
3	Alumination of aryl methyl ethers: switching between sp and sp C-O bond functionalisation with Pd-catalysis. <i>Chemical Communications</i> , 2021 , 57, 11673-11676	5.8	O
2	Au(I) Catalyzed HF Transfer: Tandem Alkyne Hydrofluorination and Perfluoroarene Functionalization <i>ACS Catalysis</i> , 2022 , 12, 3411-3419	13.1	O
1	Synthesis of [RuCl2(NO)2(THF)] and its Double C?N Bond-Forming Reactions with Alkenes. <i>Angewandte Chemie</i> , 2011 , 123, 4576-4579	3.6	