Christophe Darcel

List of Publications by Year
in descending order

56 papers	3,518 citations	117625 34 h-index	155660 55 g-index
60 all docs	60 docs citations	60 times ranked	2709 citing authors

#	Article	IF	Citations
1	Iron Catalysis in Reduction and Hydrometalation Reactions. Chemical Reviews, 2019, 119, 2550-2610.	47.7	338
2	Ironâ€Catalyzed Î±â€Alkylation of Ketones with Alcohols. Angewandte Chemie - International Edition, 2015, 54, 14483-14486.	13.8	230
3	Nâ€Heterocyclic Carbene Ligands and Iron: An Effective Association for Catalysis. Advanced Synthesis and Catalysis, 2013, 355, 19-33.	4.3	167
4	Iron-Catalyzed Câ€“H Borylation of Arenes. Journal of the American Chemical Society, 2015, 137, 4062-4065.	13.7	166
5	Selective Reduction of Esters to Aldehydes under the Catalysis of Wellâ€Defined NHCâ€“Iron Complexes. Angewandte Chemie - International Edition, 2013, 52, 8045-8049.	13.8	138
6	Wellâ€Defined Cyclopentadienyl NHC Iron Complex as the Catalyst for Efficient Hydrosilylation of Amides to Amines and Nitriles. ChemCatChem, 2011, 3, 1747-1750.	3.7	136
7	NHC-carbene cyclopentadienyl iron based catalyst for a general and efficient hydrosilylation of imines. Chemical Communications, 2012, 48, 151-153.	4.1	116
8	Nâ€Heterocyclic Carbene Pianoâ€Stool Iron Complexes as Efficient Catalysts for Hydrosilylation of Carbonyl Derivatives. Advanced Synthesis and Catalysis, 2011, 353, 239-244.	4.3	113
9	Amine synthesis via transition metal homogeneous catalysed hydrosilylation. RSC Advances, 2016, 6, 57603-57625.	3.6	106
10	Ironâ€Catalyzed Hydrosilylation of Esters. Advanced Synthesis and Catalysis, 2012, 354, 1879-1884.	4.3	104
11	Selective switchable iron-catalyzed hydrosilylation of carboxylic acids. Chemical Communications, 2012, 48, 10514.	4.1	102
12	Highly Enantiomerically Enriched Chlorophosphine Boranes:â€‰ Synthesis and Applications as P-Chirogenic Electrophilic Blocks. Journal of Organic Chemistry, 2003, 68, 4293-4301.	3.2	97
13	Cyclopentadienylâ€“NHC Iron Complexes for Solventâ€Free Catalytic Hydrosilylation of Aldehydes and Ketones. European Journal of Inorganic Chemistry, 2012, 2012, 1333-1337.	2.0	95
14	Iron Dihydride Complex as the Preâ€catalyst for Efficient Hydrosilylation of Aldehydes and Ketones Under Visible Light Activation. Advanced Synthesis and Catalysis, 2011, 353, 1279-1284.	4.3	89
15	When iron met phosphines: a happy marriage for reduction catalysis. Green Chemistry, 2015, 17, 2283-2303.	9.0	85
16	Sequential Catalysis for the Production of Sterically Hindered Amines: Ru(II)-Catalyzed Câ€“H Bond Activation and Hydrosilylation of Imines. ACS Catalysis, 2011, 1, 1221-1224.	11.2	80
17	Cobalt Carbonylâ€Based Catalyst for Hydrosilylation of Carboxamides. Advanced Synthesis and Catalysis, 2013, 355, 3358-3362.	4.3	70
18	[(NHC)Fe(CO)₄] Efficient Preâ€catalyst for Selective Hydroboration of Alkenes. ChemCatChem, 2014, 6, 763-766.	3.7	70

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19	(Cyclopentadienyl)iron(II) Complexes of N-Heterocyclic Carbenes Bearing a Malonate or Imidate Backbone: Synthesis, Structure, and Catalytic Potential in Hydrosilylation. Organometallics, 2013, 32, 4643-4655.	2.3	67
20	Unexpected selectivity in ruthenium-catalyzed hydrosilylation of primary amides: synthesis of secondary amines. Chemical Communications, 2013, 49, 3691.	4.1	64
21	Methylation of secondary amines with dialkyl carbonates and hydrosilanes catalysed by iron complexes. Chemical Communications, 2014, 50, 14229-14232.	4.1	62
22	Ruthenium(ii) catalysed synthesis of unsaturated oxazolines via arene Câ€“H bond alkenylation. Green Chemistry, 2012, 14, 2706.	9.0	58
23	KnÃ¶lker-Type Iron Complexes Bearing an N-Heterocyclic Carbene Ligand: Synthesis, Characterization, and Catalytic Dehydration of Primary Amides. Organometallics, 2015, 34, 4521-4528.	2.3	56
24	Versatile synthesis of P-chiral (ephedrine) AMPP ligands via their borane complexes. Structural consequences in Rh-catalyzed hydrogenation of methyl Î±-acetamidocinnamate. Tetrahedron: Asymmetry, 1999, 10, 4729-4743.	1.8	50
25	Phosphaneâ€Pyridine Iron Complexes: Synthesis, Characterization and Application in Reductive Amination through the Hydrosilylation Reaction. European Journal of Inorganic Chemistry, 2012, 2012, 3546-3550.	2.0	50
26	Iron piano-stool phosphine complexes for catalytic hydrosilylation reaction. Inorganica Chimica Acta, 2012, 380, 301-307.	2.4	49
27	Enantiodivergent synthesis of P-chirogenic phosphines. Comptes Rendus Chimie, 2010, 13, 1213-1226.	0.5	48
28	Configurational Stability of Chlorophosphines. Inorganic Chemistry, 2003, 42, 420-427.	4.0	47
29	Ironâ€Catalysed Switchable Synthesis of Pyrrolidines vs Pyrrolidinones by Reductive Amination of Levulinic Acid Derivatives via Hydrosilylation. Advanced Synthesis and Catalysis, 2019, 361, 1781-1786.	4.3	43
30	Iron-Catalyzed Hydrogen Transfer Reduction of Nitroarenes with Alcohols: Synthesis of Imines and Aza Heterocycles. Journal of Organic Chemistry, 2021, 86, 1023-1036.	3.2	42
31	Cyclopentadienyl N-heterocyclic carbeneâ€“nickel complexes as efficient pre-catalysts for the hydrosilylation of imines. Catalysis Science and Technology, 2013, 3, 3111.	4.1	41
32	Modular P-Chirogenic Aminophosphane-Phosphinite Ligands for Rh-Catalyzed Asymmetric Hydrogenation: A New Model for Prediction of Enantioselectivity. European Journal of Organic Chemistry, 2007, 2007, 2078-2090.	2.4	39
33	Ironâ€Catalyzed Dehydrogenative Borylation of Terminal Alkynes. Advanced Synthesis and Catalysis, 2018, 360, 3649-3654.	4.3	36
34	A convenient nickel-catalysed hydrosilylation of carbonyl derivatives. Catalysis Science and Technology, 2013, 3, 81-84.	4.1	34
35	Synthesis of new ironâ€“NHC complexes as catalysts for hydrosilylation reactions. Applied Organometallic Chemistry, 2013, 27, 459-464.	3.5	32
36	Cationic iron(II) complexes of the mixed cyclopentadienyl (Cp) and the N-heterocyclic carbene (NHC) ligands as effective precatalysts for the hydrosilylation of carbonyl compounds. Journal of Organometallic Chemistry, 2014, 762, 81-87.	1.8	31

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37	Direct synthesis of dicarbonyl PCP-iron hydride complexes and catalytic dehydrogenative borylation of styrene. Dalton Transactions, 2016, 45, 11101-11108.	3.3	29
38	Iron-catalysed tandem isomerisation/hydrosilylation reaction of allylic alcohols with amines. RSC Advances, 2014, 4, 25892.	3.6	25
39	Iron-Catalyzed Reduction and Hydroelementation Reactions. Topics in Organometallic Chemistry, 2015, , 173-216.	0.7	25
40	Multiâ€Step Reactions Involving Ironâ€Catalysed Reduction and Hydrogen Borrowing Reactions. European Journal of Inorganic Chemistry, 2019, 2019, 2471-2487.	2.0	21
41	Sustainable oxidative cleavage of catechols for the synthesis of muconic acid and muconolactones including lignin upgrading. Green Chemistry, 2020, 22, 6204-6211.	9.0	21
42	A Concise Route to Cyclic Amines from Nitroarenes and Ketoacids under Ironâ€Catalyzed Hydrosilylation Conditions. Advanced Synthesis and Catalysis, 2021, 363, 3859-3865.	4.3	18
43	Ising-type Magnetic Anisotropy and Slow Relaxation of the Magnetization in Four-Coordinate Amido-Pyridine Fe^{II} Complexes. Inorganic Chemistry, 2016, 55, 10968-10977.	4.0	17
44	Ironâ€Catalysed Reductive Amination of Carbonyl Derivatives with Ï‰â€Amino Fatty Acids to Access Cyclic Amines. ChemSusChem, 2019, 12, 3008-3012.	6.8	17
45	Organophosphorus and Iron Catalysis: Good Partners for Hydrometalation of Olefins and Alkynes. Journal of Organic Chemistry, 2020, 85, 14298-14306.	3.2	14
46	Alkenes as hydrogen trappers to control the regio-selective ruthenium(<scp>ii</scp>) catalyzed ortho Câ€“H silylation of amides and anilides. Organic Chemistry Frontiers, 2021, 8, 514-521.	4.5	14
47	1,2,4â€Triazoleâ€Based Nâ€Heterocyclic CarbÂene Nickel Complexes â€“ Synthesis and Catalytic Application. European Journal of Inorganic Chemistry, 2015, 2015, 5226-5231.	2.0	12
48	Nâ€Heterocyclic Carbene Iron Silyl Hydride Complexes. Israel Journal of Chemistry, 2017, 57, 1216-1221.	2.3	11
49	Ironâ€catalyzed hydrosilylation of diacids in the presence of amines: a new route to cyclic amines. ChemCatChem, 2020, 12, 5449-5455.	3.7	9
50	Tandem Fe/Zn or Fe/In Catalysis for the Selective Synthesis of Primary and Secondary AminesÂvia Selective Reduction of Primary Amides. ChemCatChem, 2022, 14, .	3.7	8
51	Design of P-Chirogenic Aminophosphineâ€“Phosphinite Ligands at Both Phosphorus Centers: Origin of Enantioselectivities in Pd-Catalyzed Allylic Reactions. Journal of Organic Chemistry, 2020, 85, 14391-14410.	3.2	7
52	Synthesis of Lactams by Reductive Amination of Carbonyl Derivatives with Ï‰ â€Amino Fatty Acids under Hydrosilylation Conditions. European Journal of Organic Chemistry, 2021, 2021, 5536.	2.4	4
53	Singleâ€Step Sustainable Production of Hydroxyâ€Functionalized 2â€Imidazolines from Carbohydrates. ChemSusChem, 2022, 15, .	6.8	4
54	Selective Iron Catalyzed Synthesis of Nâ€alkylated Indolines and Indoles. Chemistry - A European Journal, 0, , .	3.3	4

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55	Multi-Step Reactions Involving Iron-Catalysed Reduction and Hydrogen Borrowing Reactions. European Journal of Inorganic Chemistry, 2019, 2019, 2469-2469.	2.0	0
56	Pierre Dixneuf: A Pioneering Career in Organometallic Chemistry Highlighting Ruthenium as a Star Metal in Homogeneous Catalysis. Organometallics, 2021, 40, 1551-1554.	2.3	0