John F Hartwig

List of Publications by Year
in descending order

476	81,492	179 156	704 260
papers	citations	h-index	g-index

525	525	525	32152
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Progress, Challenges, and Opportunities with Artificial Metalloenzymes in Biosynthesis. Biochemistry, 2023, 62, 221-228.	1.2	15
2	Transitionâ€Metalâ€Catalyzed Monofluoroalkylation: Strategies for the Synthesis of Alkyl Fluorides by Câ^'C Bond Formation. Angewandte Chemie - International Edition, 2022, 61, .	7.2	34
3	Development of Chiral Ligands for the Transitionâ€Metalâ€Catalyzed Enantioselective Silylation and Borylation of Câ^'H Bonds. Angewandte Chemie - International Edition, 2022, 61, .	7.2	59
4	Development of Chiral Ligands for the Transitionâ€Metalâ€Catalyzed Enantioselective Silylation and Borylation of Câ^'H Bonds. Angewandte Chemie, 2022, 134, e202113343.	1.6	15
5	Directed Evolution of Artificial Metalloenzymes in Whole Cells. Angewandte Chemie, 2022, 134, e202110519.	1.6	2
6	Directed Evolution of Artificial Metalloenzymes in Whole Cells. Angewandte Chemie - International Edition, 2022, 61, .	7.2	14
7	Enantioselective hydroamination of unactivated terminal alkenes. CheM, 2022, 8, 532-542.	5.8	20
8	Assembly and Evolution of Artificial Metalloenzymes within E. coli Nissle 1917 for Enantioselective and Site-Selective Functionalization of Câ”€H and Câ•€ Bonds. Journal of the American Chemical Society, 2022, 144, 883-890.	6.6	16
9	Contra-thermodynamic Olefin Isomerization by Chain-Walking Hydroboration and Dehydroboration. Organic Letters, 2022, 24, 1005-1010.	2.4	2
10	Crossâ€Coupling between Hydrazine and Aryl Halides with Hydroxide Base at Low Loadings of Palladium by Rateâ€Determining Deprotonation of Bound Hydrazine. Angewandte Chemie, 2021, 133, 403-412.	1.6	5
11	Ruthenium-Catalyzed Hydroamination of Unactivated Terminal Alkenes with Stoichiometric Amounts of Alkene and an Ammonia Surrogate by Sequential Oxidation and Reduction. Journal of the American Chemical Society, 2021, 143, 359-368.	6.6	29
12	Crossâ€Coupling between Hydrazine and Aryl Halides with Hydroxide Base at Low Loadings of Palladium by Rateâ€Determining Deprotonation of Bound Hydrazine. Angewandte Chemie - International Edition, 2021, 60, 399-408.	7.2	15
13	Abiotic reduction of ketones with silanes catalysed by carbonic anhydrase through an enzymatic zinc hydride. Nature Chemistry, 2021, 13, 312-318.	6.6	30
14	Ruthenium-Catalyzed, Chemoselective and Regioselective Oxidation of Polyisobutene. Journal of the American Chemical Society, 2021, 143, 4531-4535.	6.6	27
15	Site Selective Chlorination of C(sp³)â^'H Bonds Suitable for Lateâ€Stage Functionalization. Angewandte Chemie - International Edition, 2021, 60, 8276-8283.	7.2	28
16	Site Selective Chlorination of C(sp³)â^'H Bonds Suitable for Lateâ€Stage Functionalization. Angewandte Chemie, 2021, 133, 8357-8364.	1.6	9
17	Oxalohydrazide Ligands for Copperâ€Catalyzed Câ^'O Coupling Reactions with High Turnover Numbers. Angewandte Chemie - International Edition, 2021, 60, 8203-8211.	7.2	33
18	Oxalohydrazide Ligands for Copperâ€Catalyzed Câ^'O Coupling Reactions with High Turnover Numbers. Angewandte Chemie, 2021, 133, 8284-8292.	1.6	6

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19	Direct Observation of Diastereomeric Î±-C-Bound Enolates during Enantioselective Î±-Arylations: Synthesis, Characterization, and Reactivity of Arylpalladium Fluorooxindole Complexes. Journal of the American Chemical Society, 2021, 143, 11741-11750.	6.6	15
20	Copperâ€Catalyzed Dehydrogenative Amidation of Light Alkanes. Angewandte Chemie - International Edition, 2021, 60, 18467-18471.	7.2	12
21	Copperâ€Catalyzed Dehydrogenative Amidation of Light Alkanes. Angewandte Chemie, 2021, 133, 18615-18619.	1.6	6
22	Mechanistic Investigation of the Iron-Catalyzed Azidation of Alkyl C(sp³)â€“H Bonds with Zhdankinâ€™s Î»³-Azidoiodane. Journal of the American Chemical Society, 2021, 143, 16184-16196.	6.6	28
23	gemâ€Difluoroallylation of Aryl Halides and Pseudo Halides with Difluoroallylboron Reagents in High Regioselectivity. Angewandte Chemie - International Edition, 2021, 60, 25746-25752.	7.2	24
24	Selective, Catalytic Oxidations of Câ€“H Bonds in Polyethylenes Produce Functional Materials with Enhanced Adhesion. CheM, 2021, 7, 137-145.	5.8	77
25	Direct Arylation of Simple Arenes with Aryl Bromides by Synergistic Silver and Palladium Catalysis. ACS Catalysis, 2021, 11, 1430-1434.	5.5	32
26	Site-Selective Silver-Catalyzed Câ€“H Bond Deuteration of Five-Membered Aromatic Heterocycles and Pharmaceuticals. ACS Catalysis, 2021, 11, 1119-1127.	5.5	39
27	Unnatural biosynthesis by an engineered microorganism with heterologously expressed natural enzymes and an artificial metalloenzyme. Nature Chemistry, 2021, 13, 1186-1191.	6.6	56
28	Copperâ€Mediated Fluorination of Aryl Trisiloxanes with Nucleophilic Fluoride. Chemistry - A European Journal, 2020, 26, 1759-1762.	1.7	6
29	Palladium-Catalyzed Oxidative Dehydrosilylation for Contra-Thermodynamic Olefin Isomerization. ACS Catalysis, 2020, 10, 8736-8741.	5.5	9
30	Desymmetrization of difluoromethylene groups by Câ€“F bond activation. Nature, 2020, 583, 548-553.	13.7	83
31	Catalytic asymmetric addition of an amine Nâ€“H bond across internal alkenes. Nature, 2020, 588, 254-260.	13.7	64
32	Mechanism of Ni-Catalyzed Oxidations of Unactivated C(sp³)â€“H Bonds. Journal of the American Chemical Society, 2020, 142, 19239-19248.	6.6	46
33	Application of Trimethylgermanyl-Substituted Bisphosphine Ligands with Enhanced Dispersion Interactions to Copper-Catalyzed Hydroboration of Disubstituted Alkenes. Journal of the American Chemical Society, 2020, 142, 18213-18222.	6.6	73
34	Copper-Catalyzed Defluorinative Borylation and Silylation of gem-Difluoroallyl Groups. Organic Letters, 2020, 22, 6805-6809.	2.4	23
35	Effects of ligands on the migratory insertion of alkenes into rhodiumâ€“oxygen bonds. Chemical Science, 2020, 11, 10449-10456.	3.7	7
36	Mechanism of the Iridium-Catalyzed Silylation of Aromatic Câ€“H Bonds. Journal of the American Chemical Society, 2020, 142, 10494-10505.	6.6	28

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37	Diverse functionalization of strong alkyl Câ€“H bonds by undirected borylation. Science, 2020, 368, 736-741.	6.0	131
38	Palladium-Catalyzed Oxidation of Î²-C(sp³)â€“H Bonds of Primary Alkylamines through a Rare Four-Membered Palladacycle Intermediate. Journal of the American Chemical Society, 2020, 142, 7912-7919.	6.6	37
39	Iridiumâ€Catalyzed Silylation of Fiveâ€Membered Heteroarenes: High Sterically Derived Selectivity from a Pyridylâ€Imidazoline Ligand. Angewandte Chemie, 2020, 132, 6130-6137.	1.6	16
40	In Praise of Basic Research as a Vehicle to Practical Applications: Palladiumâ€Catalyzed Coupling to Form Carbonâ€Nitrogen Bonds. Israel Journal of Chemistry, 2020, 60, 177-179.	1.0	11
41	Effect of Ligand Structure on the Electron Density and Activity of Iridium Catalysts for the Borylation of Alkanes. ACS Catalysis, 2020, 10, 3415-3424.	5.5	32
42	Nickel-catalysed anti-Markovnikov hydroarylation of unactivated alkenes with unactivated arenes facilitated by non-covalent interactions. Nature Chemistry, 2020, 12, 276-283.	6.6	129
43	Iridiumâ€Catalyzed Silylation of Fiveâ€Membered Heteroarenes: High Sterically Derived Selectivity from a Pyridylâ€Imidazoline Ligand. Angewandte Chemie - International Edition, 2020, 59, 6074-6081.	7.2	42
44	Contra-thermodynamic Olefin Isomerization by Chain-Walking Hydrofunctionalization and Formal Retro-hydrofunctionalization. Organic Letters, 2019, 21, 7129-7133.	2.4	11
45	Palladium-Catalyzed Î±-Arylation of Carboxylic Acids and Secondary Amides via a Traceless Protecting Strategy. Journal of the American Chemical Society, 2019, 141, 11749-11753.	6.6	35
46	Stereodivergent Construction of Tertiary Fluorides in Vicinal Stereogenic Pairs by Allylic Substitution with Iridium and Copper Catalysts. Journal of the American Chemical Society, 2019, 141, 13066-13073.	6.6	155
47	Siteâ€Selective Functionalization of (sp³)Câ^'H Bonds Catalyzed by Artificial Metalloenzymes Containing an Iridiumâ€Porphyrin Cofactor. Angewandte Chemie - International Edition, 2019, 58, 13954-13960.	7.2	62
48	Siteâ€Selective Functionalization of (sp 3)Câ^'H Bonds Catalyzed by Artificial Metalloenzymes Containing an Iridiumâ€Porphyrin Cofactor. Angewandte Chemie, 2019, 131, 14092-14098.	1.6	5
49	Unusual Electronic Effects of Ancillary Ligands on the Perfluoroalkylation of Aryl Iodides and Bromides Mediated by Copper(I) Pentafluoroethyl Complexes of Substituted Bipyridines. Journal of the American Chemical Society, 2019, 141, 19458-19465.	6.6	16
50	Palladium-catalyzed Î±-arylation for the addition of small rings to aromatic compounds. Nature Communications, 2019, 10, 4083.	5.8	17
51	Origin of the Difference in Reactivity between Ir Catalysts for the Borylation of Câ€“H Bonds. Journal of the American Chemical Society, 2019, 141, 16479-16485.	6.6	41
52	Nobleâ^'Metal Substitution in Hemoproteins: An Emerging Strategy for Abiological Catalysis. Accounts of Chemical Research, 2019, 52, 326-335.	7.6	104
53	Iridium-catalyzed silylation of unactivated Câ€“H bonds. Tetrahedron, 2019, 75, 4059-4070.	1.0	29
54	New â€œCatsâ€•in the House: Chemistry Meets Biology in Artificial Metalloenzymes and Repurposed Metalloenzymes. Accounts of Chemical Research, 2019, 52, 1145-1145.	7.6	11

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55	Iridium-Catalyzed Silylation of Câ€“H Bonds in Unactivated Arenes: A Sterically Encumbered Phenanthroline Ligand Accelerates Catalysis. Journal of the American Chemical Society, 2019, 141, 7063-7072.	6.6	57
56	Palladium-Catalyzed Methylation of Aryl, Heteroaryl, and Vinyl Boronate Esters. Organic Letters, 2019, 21, 1337-1341.	2.4	24
57	Sequential Xanthalation and O-Trifluoromethylation of Phenols: AÂProcedure for the Synthesis of Aryl Trifluoromethyl Ethers. Journal of Organic Chemistry, 2019, 84, 15767-15776.	1.7	12
58	Enantioselective Î±-functionalizations of ketones via allylic substitution of silyl enol ethers. Nature Chemistry, 2019, 11, 177-183.	6.6	32
59	Carbon(sp3)-nitrogen bond-forming reductive elimination from phosphine-ligated alkylpalladium(II) amide complexes: A DFT study. Tetrahedron, 2019, 75, 137-143.	1.0	5
60	A Multicatalytic Approach to the Hydroaminomethylation of Î±â€Olefins. Angewandte Chemie, 2019, 131, 3406-3410.	1.6	9
61	A Multicatalytic Approach to the Hydroaminomethylation of Î±â€Olefins. Angewandte Chemie - International Edition, 2019, 58, 3368-3372.	7.2	39
62	Traceless Silylation of Î²-C(sp³)â€“H Bonds of Alcohols via Perfluorinated Acetals. Journal of the American Chemical Society, 2018, 140, 1502-1507.	6.6	41
63	Stereodivergent Allylation of Azaaryl Acetamides and Acetates by Synergistic Iridium and Copper Catalysis. Journal of the American Chemical Society, 2018, 140, 1239-1242.	6.6	195
64	Rhodium-Catalyzed Regioselective Silylation of Alkyl Câ€“H Bonds for the Synthesis of 1,4-Diols. Journal of the American Chemical Society, 2018, 140, 1460-1470.	6.6	76
65	Reductive Elimination from Phosphine-Ligated Alkylpalladium(II) Amido Complexes To Form sp³ Carbonâ€“Nitrogen Bonds. Journal of the American Chemical Society, 2018, 140, 4893-4904.	6.6	21
66	Mechanism of the Ullmann Biaryl Ether Synthesis Catalyzed by Complexes of Anionic Ligands: Evidence for the Reaction of Iodoarenes with Ligated Anionic Cu^I Intermediates. Journal of the American Chemical Society, 2018, 140, 793-806.	6.6	83
67	Transitionâ€Metalâ€Catalyzed Selective Functionalization of C(sp³)â^'H Bonds in Natural Products. Angewandte Chemie - International Edition, 2018, 57, 4234-4241.	7.2	271
68	Ãœbergangsmetallâ€katalysierte selektive Funktionalisierung von C(sp³)â€Hâ€Bindungen in Naturstoffen. Angewandte Chemie, 2018, 130, 4309-4317.	1.6	65
69	Trimethylphosphate as a Methylating Agent for Cross Coupling: A Slow-Release Mechanism for the Methylation of Arylboronic Esters. Journal of the American Chemical Society, 2018, 140, 17197-17202.	6.6	61
70	Reductive Elimination to Form C(sp³)â€“N Bonds from Palladium(II) Primary Alkyl Complexes. Organometallics, 2018, 37, 3243-3247.	1.1	12
71	Iridium-Catalyzed, Î²-Selective C(sp3)â€“H Silylation of Aliphatic Amines To Form Silapyrrolidines and 1,2-Amino Alcohols. Journal of the American Chemical Society, 2018, 140, 18032-18038.	6.6	77
72	Enantioselective Synthesis of Tertiary Allylic Fluorides by Iridiumâ€Catalyzed Allylic Fluoroalkylation. Angewandte Chemie, 2018, 130, 13309-13313.	1.6	19

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73	Iridiumâ€Catalyzed, Silylâ€Directed, periâ€Borylation of Câˆ'H Bonds in Fused Polycyclic Arenes and Heteroarenes. Angewandte Chemie, 2018, 130, 10320-10324.	1.6	13
74	Iridiumâ€Catalyzed, Silylâ€Directed, periâ€Borylation of Câˆ'H Bonds in Fused Polycyclic Arenes and Heteroarenes. Angewandte Chemie - International Edition, 2018, 57, 10163-10167.	7.2	36
75	Mechanistic Studies of Palladium-Catalyzed Aminocarbonylation of Aryl Chlorides with Carbon Monoxide and Ammonia. Journal of the American Chemical Society, 2018, 140, 7979-7993.	6.6	55
76	Synthesis of heteroaromatic trifluoromethyl ethers with trifluoromethyl triflate as the source of the trifluoromethoxy group. Chemical Communications, 2018, 54, 10124-10127.	2.2	39
77	Cooperative asymmetric reactions combining photocatalysis and enzymatic catalysis. Nature, 2018, 560, 355-359.	13.7	230
78	Enantioselective Synthesis of Tertiary Allylic Fluorides by Iridiumâ€Catalyzed Allylic Fluoroalkylation. Angewandte Chemie - International Edition, 2018, 57, 13125-13129.	7.2	54
79	Chemoselective, Enzymatic Câ€"H Bond Amination Catalyzed by a Cytochrome P450 Containing an Ir(Me)-PIX Cofactor. Journal of the American Chemical Society, 2017, 139, 1750-1753.	6.6	147
80	Combining Rh-Catalyzed Diazocoupling and Enzymatic Reduction To Efficiently Synthesize Enantioenriched 2-Substituted Succinate Derivatives. ACS Catalysis, 2017, 7, 2548-2552.	5.5	32
81	Mechanistic Studies on Rhodium-Catalyzed Enantioselective Silylation of Aryl Câ€"H Bonds. Journal of the American Chemical Society, 2017, 139, 4879-4886.	6.6	36
82	A Chiral Nitrogen Ligand for Enantioselective, Iridiumâ€Catalyzed Silylation of Aromatic Câˆ'H Bonds. Angewandte Chemie, 2017, 129, 1112-1116.	1.6	8
83	Oxidation of Hindered Allylic Câ€"H Bonds with Applications to the Functionalization of Complex Molecules. ACS Catalysis, 2017, 7, 1998-2001.	5.5	18
84	Palladium-Catalyzed, Enantioselective Î±-Arylation of Î±-Fluorooxindoles. Organic Letters, 2017, 19, 1390-1393.	2.4	65
85	Enantioselective Borylation of Aromatic Câˆ'H Bonds with Chiral Dinitrogen Ligands. Angewandte Chemie - International Edition, 2017, 56, 7205-7208.	7.2	85
86	Palladium-Catalyzed Cross-Coupling of Ethyl Bromodifluoroacetate with Aryl Bromides or Triflates and Cross-Coupling of Ethyl Bromofluoroacetate with Aryl Iodides. Organic Letters, 2017, 19, 2610-2613.	2.4	42
87	Enantioselective Borylation of Aromatic Câˆ'H Bonds with Chiral Dinitrogen Ligands. Angewandte Chemie, 2017, 129, 7311-7314.	1.6	34
88	Iridiumâ€Catalyzed Enantioselective Allylic Substitution of Aliphatic Esters with Silyl Ketene Acetals as the Ester Enolates. Angewandte Chemie - International Edition, 2017, 56, 8887-8891.	7.2	42
89	Iridiumâ€Catalyzed Enantioselective Allylic Substitution of Aliphatic Esters with Silyl Ketene Acetals as the Ester Enolates. Angewandte Chemie, 2017, 129, 9013-9017.	1.6	14
90	Beyond Iron: Iridium-Containing P450 Enzymes for Selective Cyclopropanations of Structurally Diverse Alkenes. ACS Central Science, 2017, 3, 302-308.	5.3	85

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91	Catalyst-Controlled Site-Selective Bond Activation. Accounts of Chemical Research, 2017, 50, 549-555.	7.6	167
92	A Chiral Nitrogen Ligand for Enantioselective, Iridiumâ€Catalyzed Silylation of Aromatic Câˆ'H Bonds. Angewandte Chemie - International Edition, 2017, 56, 1092-1096.	7.2	66
93	Stereodivergent Allylic Substitutions with Aryl Acetic Acid Esters by Synergistic Iridium and Lewis Base Catalysis. Journal of the American Chemical Society, 2017, 139, 87-90.	6.6	250
94	Synthesis, Characterization, and Reactivity of Palladium Fluoroenolate Complexes. Journal of the American Chemical Society, 2017, 139, 16088-16091.	6.6	25
95	Snap deconvolution: An informatics approach to high-throughput discovery of catalytic reactions. Science, 2017, 357, 175-181.	6.0	79
96	Ir-Catalyzed Enantioselective, Intramolecular Silylation of Methyl Câ€"H Bonds. Journal of the American Chemical Society, 2017, 139, 12137-12140.	6.6	77
97	Catalytic Hydroxylation of Polyethylenes. ACS Central Science, 2017, 3, 895-903.	5.3	95
98	Site-selective oxidation, amination and epimerization reactions of complex polyols enabled by transfer hydrogenation. Nature Chemistry, 2017, 9, 1213-1221.	6.6	60
99	Mechanistic Studies of Copper-Catalyzed Asymmetric Hydroboration of Alkenes. Journal of the American Chemical Society, 2017, 139, 12758-12772.	6.6	113
100	Mechanistic Investigations of the Hydrogenolysis of Diaryl Ethers Catalyzed by Nickel Complexes of N-Heterocyclic Carbene Ligands. Journal of the American Chemical Society, 2017, 139, 17667-17676.	6.6	79
101	Regioselective, Asymmetric Formal Hydroamination of Unactivated Internal Alkenes. Angewandte Chemie - International Edition, 2016, 55, 776-780.	7.2	122
102	Rhodiumâ€Catalyzed Enantioselective Silylation of Cyclopropyl Câˆ'H Bonds. Angewandte Chemie - International Edition, 2016, 55, 8723-8727.	7.2	102
103	Synthesis of Aryldifluoroamides by Copperâ€Catalyzed Crossâ€Coupling. Angewandte Chemie, 2016, 128, 4643-4648.	1.6	15
104	Iridiumâ€Catalyzed Diastereoselective and Enantioselective Allylic Substitutions with Acyclic Î±â€Alkoxy Ketones. Angewandte Chemie, 2016, 128, 5913-5917.	1.6	41
105	Synthesis of Aryldifluoroamides by Copperâ€Catalyzed Crossâ€Coupling. Angewandte Chemie - International Edition, 2016, 55, 4567-4572.	7.2	54
106	Chemoâ€•and Regioselective Hydrogenolysis of Diaryl Ether Câˆ'O Bonds by a Robust Heterogeneous Ni/C Catalyst: Applications to the Cleavage of Complex Ligninâ€Related Fragments. Angewandte Chemie, 2016, 128, 1496-1500.	1.6	34
107	Rhodiumâ€Catalyzed Enantioselective Silylation of Cyclopropyl Câˆ'H Bonds. Angewandte Chemie, 2016, 128, 8865-8869.	1.6	32
108	Chemoâ€•and Regioselective Hydrogenolysis of Diaryl Ether Câˆ'O Bonds by a Robust Heterogeneous Ni/C Catalyst: Applications to the Cleavage of Complex Ligninâ€Related Fragments. Angewandte Chemie - International Edition, 2016, 55, 1474-1478.	7.2	129

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109	Trifluoromethylation of Arylsilanes with [(phen)CuCF₃]. Angewandte Chemie - International Edition, 2016, 55, 8054-8057.	7.2	44
110	Fluorodecarboxylation for the Synthesis of Trifluoromethyl Aryl Ethers. Angewandte Chemie, 2016, 128, 9910-9914.	1.6	25
111	Undirected, Homogeneous Câ€“H Bond Functionalization: Challenges and Opportunities. ACS Central Science, 2016, 2, 281-292.	5.3	614
112	Diverse Asymmetric Hydrofunctionalization of Aliphatic Internal Alkenes through Catalytic Regioselective Hydroboration. Journal of the American Chemical Society, 2016, 138, 6703-6706.	6.6	141
113	A decarboxylative approach for regioselective hydroarylation of alkynes. Nature Chemistry, 2016, 8, 1144-1151.	6.6	109
114	Copper-Mediated Câ€“N Coupling of Arylsilanes with Nitrogen Nucleophiles. Organic Letters, 2016, 18, 5244-5247.	2.4	25
115	An artificial metalloenzyme with the kinetics of native enzymes. Science, 2016, 354, 102-106.	6.0	296
116	Late Stage Azidation of Complex Molecules. ACS Central Science, 2016, 2, 715-724.	5.3	121
117	Polysilylether: A Degradable Polymer from Biorenewable Feedstocks. Angewandte Chemie - International Edition, 2016, 55, 11872-11876.	7.2	30
118	Palladium-Catalyzed Cross Coupling of Secondary and Tertiary Alkyl Bromides with a Nitrogen Nucleophile. ACS Central Science, 2016, 2, 647-652.	5.3	99
119	Iridiumâ€Catalyzed Regioâ€•and Enantioselective Allylic Substitution of Trisubstituted Allylic Electrophiles. Angewandte Chemie - International Edition, 2016, 55, 11651-11655.	7.2	31
120	Iridiumâ€Catalyzed Regioâ€•and Enantioselective Allylic Substitution of Trisubstituted Allylic Electrophiles. Angewandte Chemie, 2016, 128, 11823-11827.	1.6	11
121	Fragmentation of Lignin Samples with Commercial Pd/C under Ambient Pressure of Hydrogen. ACS Catalysis, 2016, 6, 7385-7392.	5.5	86
122	Fluorodecarboxylation for the Synthesis of Trifluoromethyl Aryl Ethers. Angewandte Chemie - International Edition, 2016, 55, 9758-9762.	7.2	83
123	Synthetic and Computational Studies on the Rhodium-Catalyzed Hydroamination of Aminoalkenes. ACS Catalysis, 2016, 6, 5651-5665.	5.5	20
124	Palladium-Catalyzed Enantioselective Î±-Arylation of Î±-Fluoroketones. Journal of the American Chemical Society, 2016, 138, 15980-15986.	6.6	73
125	Palladium-Catalyzed, Site-Selective Direct Allylation of Aryl Câ€“H Bonds by Silver-Mediated Câ€“H Activation: A Synthetic and Mechanistic Investigation. Journal of the American Chemical Society, 2016, 138, 15278-15284.	6.6	126
126	Polysilylether: A Degradable Polymer from Biorenewable Feedstocks. Angewandte Chemie, 2016, 128, 12051-12055.	1.6	7

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127	Trifluoromethylation of Arylsilanes with [(phen)CuCF₃]. Angewandte Chemie, 2016, 128, 8186-8189.	1.6	11
128	Abiological catalysis by artificial haem proteins containing noble metals in place of iron. Nature, 2016, 534, 534-537.	13.7	360
129	Iridiumâ€Catalyzed Diastereoselective and Enantioselective Allylic Substitutions with Acyclic Î±â€Alkoxy Ketones. Angewandte Chemie - International Edition, 2016, 55, 5819-5823.	7.2	90
130	Evolution of Câ€“H Bond Functionalization from Methane to Methodology. Journal of the American Chemical Society, 2016, 138, 2-24.	6.6	632
131	Assessment of the Electronic Factors Determining the Thermodynamics of â€œOxidative Additionâ€•of Câ€“H and Nâ€“H Bonds to Ir(I) Complexes. Journal of the American Chemical Society, 2016, 138, 149-163.	6.6	52
132	Iridium-Catalyzed, Hydrosilyl-Directed Borylation of Unactivated Alkyl Câ€“H Bonds. Journal of the American Chemical Society, 2016, 138, 762-765.	6.6	72
133	Metal-catalysed azidation of tertiary Câ€“H bonds suitable for late-stage functionalization. Nature, 2015, 517, 600-604.	13.7	372
134	Iridium-Catalyzed Silylation of Aryl Câ€“H Bonds. Journal of the American Chemical Society, 2015, 137, 592-595.	6.6	200
135	Nickelâ€Catalyzed Amination of Aryl Chlorides with Ammonia or Ammonium Salts. Angewandte Chemie - International Edition, 2015, 54, 3768-3772.	7.2	138
136	Catalytic Silylation of Unactivated Câ€“H Bonds. Chemical Reviews, 2015, 115, 8946-8975.	23.0	557
137	Iridium-Catalyzed Borylation of Primary Benzylic Câ€“H Bonds without a Directing Group: Scope, Mechanism, and Origins of Selectivity. Journal of the American Chemical Society, 2015, 137, 8633-8643.	6.6	131
138	Palladium-Catalyzed Arylation of Fluoroalkylamines. Journal of the American Chemical Society, 2015, 137, 8460-8468.	6.6	103
139	Generation, Characterization, and Tunable Reactivity of Organometallic Fragments Bound to a Protein Ligand. Journal of the American Chemical Society, 2015, 137, 8261-8268.	6.6	20
140	Development of a One-Pot Tandem Reaction Combining Ruthenium-Catalyzed Alkene Metathesis and Enantioselective Enzymatic Oxidation To Produce Aryl Epoxides. ACS Catalysis, 2015, 5, 3817-3822.	5.5	61
141	Rhodium-Catalyzed Enantioselective Silylation of Arene Câ€“H Bonds: Desymmetrization of Diarylmethanols. Journal of the American Chemical Society, 2015, 137, 6742-6745.	6.6	113
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