

Xin Hong

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

137
papers

5,580
citations

41
h-index

70
g-index

157
ext. papers

7,119
ext. citations

11.5
avg, IF

6.44
L-index

#	Paper	IF	Citations
137	Synthesis of Axially Chiral N-Arylindoles via Atroposelective Cyclization of Ynamides Catalyzed by Chiral Brønsted Acids.. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	7
136	Cp*Co(III)-Catalyzed Enantioselective Hydroarylation of Unactivated Terminal Alkenes via C-H Activation. <i>Journal of the American Chemical Society</i> , 2021 , 143, 19112-19120	16.4	13
135	Nickel-Catalyzed Domino Cross-Electrophile Coupling Dicarbofunctionalization Reaction To Afford Vinylcyclopropanes. <i>ACS Catalysis</i> , 2021 , 11, 14369-14380	13.1	1
134	Asymmetric dearomatization catalysed by chiral Brønsted acids via activation of ynamides. <i>Nature Chemistry</i> , 2021 , 13, 1093-1100	17.6	14
133	Entropic Path Sampling: Computational Protocol to Evaluate Entropic Profile along a Reaction Path. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 10713-10719	6.4	1
132	Isolated boron in zeolite for oxidative dehydrogenation of propane. <i>Science</i> , 2021 , 372, 76-80	33.3	48
131	Mechanism and Selectivity Control in Ni- and Pd-Catalyzed Cross-Couplings Involving Carbon-Oxygen Bond Activation. <i>Accounts of Chemical Research</i> , 2021 , 54, 2158-2171	24.3	11
130	Bimetallic Cooperative Catalysis for Decarbonylative Heteroarylation of Carboxylic Acids via C-O/C-H Coupling. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 10690-10699	16.4	22
129	Bimetallic Cooperative Catalysis for Decarbonylative Heteroarylation of Carboxylic Acids via C-O/C-H Coupling. <i>Angewandte Chemie</i> , 2021 , 133, 10785-10794	3.6	2
128	Direct Synthesis of Ketones from Methyl Esters by Nickel-Catalyzed Suzuki-Miyaura Coupling. <i>Angewandte Chemie</i> , 2021 , 133, 13588-13595	3.6	3
127	Direct Synthesis of Ketones from Methyl Esters by Nickel-Catalyzed Suzuki-Miyaura Coupling. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 13476-13483	16.4	6
126	Kinetic Resolution of Tertiary Benzyl Alcohols via Palladium/Chiral Norbornene Cooperative Catalysis. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 12824-12828	16.4	11
125	Understanding the Structure-Activity Relationship of Ni-Catalyzed Amide C-N Bond Activation using Distortion/Interaction Analysis. <i>ChemCatChem</i> , 2021 , 13, 3536-3542	5.2	2
124	Low-Temperature Nickel-Catalyzed C-N Cross-Coupling via Kinetic Resolution Enabled by a Bulky and Flexible Chiral N-Heterocyclic Carbene Ligand. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 16077-16084	16.4	10
123	Rhodium(III)-Catalyzed Asymmetric Reductive Cyclization of Cyclohexadienone-Containing 1,6-Dienes via an Anti-Michael/Michael Cascade Process. <i>ACS Catalysis</i> , 2021 , 11, 8015-8022	13.1	4
122	Low-Temperature Nickel-Catalyzed C-N Cross-Coupling via Kinetic Resolution Enabled by a Bulky and Flexible Chiral N-Heterocyclic Carbene Ligand. <i>Angewandte Chemie</i> , 2021 , 133, 16213-16220	3.6	0
121	A [15]paracyclophenone and its fluorenone-containing derivatives: syntheses and binding to nerve agent mimics via aryl-CH hydrogen bonding interactions. <i>Organic Chemistry Frontiers</i> , 2021 , 8, 25-31	5.2	2

120	Azobenzene-Based Macrocyclic Arenes: Synthesis, Crystal Structures, and Light-Controlled Molecular Encapsulation and Release. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 5766-5770	16.4	16
119	Selective Separation of Phenanthrene from Aromatic Isomer Mixtures by a Water-Soluble Azobenzene-Based Macrocyclic. <i>Journal of the American Chemical Society</i> , 2021 , 143, 3081-3085	16.4	16
118	Divergent rhodium-catalyzed electrochemical vinylic C-H annulation of acrylamides with alkynes. <i>Nature Communications</i> , 2021 , 12, 930	17.4	15
117	An axial-to-axial chirality transfer strategy for atroposelective construction of C _N axial chirality. <i>CheM</i> , 2021 , 7, 1917-1932	16.2	9
116	Towards Data-Driven Design of Asymmetric Hydrogenation of Olefins: Database and Hierarchical Learning. <i>Angewandte Chemie</i> , 2021 , 133, 22986	3.6	1
115	Towards Data-Driven Design of Asymmetric Hydrogenation of Olefins: Database and Hierarchical Learning. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 22804-22811	16.4	3
114	Atroposelective synthesis of α -aryl peptoid atropisomers a palladium(ii)-catalyzed asymmetric C-H alkynylation strategy. <i>Chemical Science</i> , 2021 , 12, 9391-9397	9.4	13
113	Predicting Regioselectivity in Radical C _H Functionalization of Heterocycles through Machine Learning. <i>Angewandte Chemie</i> , 2020 , 132, 13355-13361	3.6	10
112	Carboxylate breaks the arene C-H bond a hydrogen-atom-transfer mechanism in electrochemical cobalt catalysis. <i>Chemical Science</i> , 2020 , 11, 5790-5796	9.4	8
111	Catalytic and Photochemical Strategies to Stabilized Radicals Based on Anomeric Nucleophiles. <i>Journal of the American Chemical Society</i> , 2020 , 142, 11102-11113	16.4	21
110	Synthesis of Aluminophosphate Molecular Sieves in Alkaline Media. <i>Chemistry - A European Journal</i> , 2020 , 26, 11408-11411	4.8	1
109	Catalytic enantioselective desymmetrizing functionalization of alkyl radicals via Cu(i)/CPA cooperative catalysis. <i>Nature Catalysis</i> , 2020 , 3, 401-410	36.5	43
108	Iron-Catalyzed Asymmetric Hydrosilylation of Vinylcyclopropanes via Stereospecific C-C Bond Cleavage. <i>IScience</i> , 2020 , 23, 100985	6.1	13
107	Scaling relationships and volcano plots of homogeneous transition metal catalysis. <i>Dalton Transactions</i> , 2020 , 49, 3652-3657	4.3	3
106	Diastereoselective olefin amidoacylation via photoredox PCET/nickel-dual catalysis: reaction scope and mechanistic insights. <i>Chemical Science</i> , 2020 , 11, 4131-4137	9.4	18
105	Pillararene Host-Guest Complexation Induced Chirality Amplification: A New Way to Detect Cryptochiral Compounds. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 10868-10872	16.4	58
104	Nickel-Catalyzed Alkyl-Alkyl Cross-Electrophile Coupling Reaction of 1,3-Dimesylates for the Synthesis of Alkylcyclopropanes. <i>Journal of the American Chemical Society</i> , 2020 , 142, 5017-5023	16.4	22
103	Formation of phytosterol photooxidation products: A chemical reaction mechanism for light-induced oxidation. <i>Food Chemistry</i> , 2020 , 333, 127430	8.5	5

102	Optically Active Flavaglines-Inspired Molecules by a Palladium-Catalyzed Decarboxylative Dearomative Asymmetric Allylic Alkylation. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12039-12045	16.4	9
101	Understanding the mechanism and reactivity of Pd-catalyzed C-P bond metathesis of aryl phosphines: a computational study. <i>Organic and Biomolecular Chemistry</i> , 2020 , 18, 5414-5419	3.9	1
100	Predicting Regioselectivity in Radical C-H Functionalization of Heterocycles through Machine Learning. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 13253-13259	16.4	27
99	Computation-Guided Development of the "Click" -Quinone Methide Cycloaddition with Improved Kinetics. <i>Organic Letters</i> , 2020 , 22, 2920-2924	6.2	2
98	Atroposelective Synthesis of Axially Chiral Styrenes via an Asymmetric C \equiv N Functionalization Strategy. <i>Chem</i> , 2020 , 6, 497-511	16.2	61
97	Engaging Sulfonamides: Intramolecular Cross-Electrophile Coupling Reaction of Sulfonamides with Alkyl Chlorides. <i>Journal of Organic Chemistry</i> , 2020 , 85, 1775-1793	4.2	9
96	Enantioselective Synthesis of Atropisomeric Anilides via Pd(II)-Catalyzed Asymmetric C-H Olefination. <i>Journal of the American Chemical Society</i> , 2020 , 142, 18266-18276	16.4	36
95	Directed B \equiv N functionalization of the closo-dodecaborate cluster via concerted iodination-deprotonation: reaction mechanism and origins of regioselectivity. <i>Organic Chemistry Frontiers</i> , 2020 , 7, 3648-3655	5.2	6
94	Constraining Homo- and Heteroanion Dimers in Ultraclose Proximity within a Self-Assembled Hexacationic Cage. <i>Journal of the American Chemical Society</i> , 2020 , 142, 20182-20190	16.4	15
93	Decarbonylative Suzuki-Miyaura Cross-Coupling of Aryl Chlorides. <i>Organic Letters</i> , 2020 , 22, 6434-6440	6.2	14
92	Versatility of Boron-Mediated Coupling Reaction of Oxetanes and Epoxides with CO ₂ : Selective Synthesis of Cyclic Carbonates or Linear Polycarbonates. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 13056-13063	8.3	21
91	Dearomative 1,4-difunctionalization of naphthalenes via palladium-catalyzed tandem Heck/Suzuki coupling reaction. <i>Nature Communications</i> , 2020 , 11, 4380	17.4	19
90	Organocatalytic Enantioselective Conia-Ene-Type Carbocyclization of Ynamide Cyclohexanones: Regiodivergent Synthesis of Morphans and Normorphans. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16252-16259	16.4	48
89	Palladium-catalyzed decarbonylative Suzuki-Miyaura cross-coupling of amides by carbon-nitrogen bond activation. <i>Chemical Science</i> , 2019 , 10, 9865-9871	9.4	49
88	How Solvents Control the Stereospecificity of Ni-Catalyzed Miyaura Borylation of Allylic Pivalates. <i>ACS Catalysis</i> , 2019 , 9, 9589-9598	13.1	14
87	Synthesis of Biaryls via Decarbonylative Palladium-Catalyzed Suzuki-Miyaura Cross-Coupling of Carboxylic Acids. <i>Science</i> , 2019 , 19, 749-759	6.1	46
86	Understanding the axial chirality control of quinidine-derived ammonium cation-directed O-alkylation: a computational study. <i>Organic and Biomolecular Chemistry</i> , 2019 , 17, 1916-1923	3.9	6
85	Nickel-Catalyzed Kumada Coupling of Boc-Activated Aromatic Amines via Nondirected Selective Aryl C-N Bond Cleavage. <i>Organic Letters</i> , 2019 , 21, 1226-1231	6.2	35

84	Enantioselective Synthesis of Atropisomers Featuring Pentatomic Heteroaromatics by Pd-Catalyzed C \equiv N Alkynylation. <i>ACS Catalysis</i> , 2019 , 9, 1956-1961	13.1	117
83	Tuning the LUMO Energy of an Organic Interphase to Stabilize Lithium Metal Batteries. <i>ACS Energy Letters</i> , 2019 , 4, 644-650	20.1	80
82	Highly Chemoselective, Transition-Metal-Free Transamidation of Unactivated Amides and Direct Amidation of Alkyl Esters by N-C/O-C Cleavage. <i>Journal of the American Chemical Society</i> , 2019 , 141, 11161-11172	16.4	1198
81	A diquat-containing macrocyclic anion acceptor in pure water. <i>Chemical Communications</i> , 2019 , 55, 8297-8300	3.00	5
80	Generalized ionothermal synthesis of silica-based zeolites. <i>Microporous and Mesoporous Materials</i> , 2019 , 286, 163-168	5.3	13
79	Unexpected Stability of CO-Coordinated Palladacycle in Bidentate Auxiliary Directed C(sp ³) \equiv C Bond Activation: A Combined Experimental and Computational Study. <i>Organometallics</i> , 2019 , 38, 2022-2030	2.8	5
78	Highly-chemoselective step-down reduction of carboxylic acids to aromatic hydrocarbons palladium catalysis. <i>Chemical Science</i> , 2019 , 10, 5736-5742	9.4	30
77	Total Syntheses of Rhodomolleins XX and XXII: A Reductive Epoxide-Opening/Beckwith-Dowd Approach. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8556-8560	16.4	29
76	Poly(thioether)s from Closed-System One-Pot Reaction of Carbonyl Sulfide and Epoxides by Organic Bases. <i>Journal of the American Chemical Society</i> , 2019 , 141, 5490-5496	16.4	39
75	C-H Acidity and Arene Nucleophilicity as Orthogonal Control of Chemoselectivity in Dual C-H Bond Activation. <i>Organic Letters</i> , 2019 , 21, 2360-2364	6.2	13
74	Total Syntheses of (+)-Sarcophytin, (+)-Chatancin, (-)-3-Oxochatancin, and (-)-Pavidolide B: A Divergent Approach. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 5100-5104	16.4	11
73	A Unified Explanation for Chemoselectivity and Stereospecificity of Ni-Catalyzed Kumada and Cross-Electrophile Coupling Reactions of Benzylic Ethers: A Combined Computational and Experimental Study. <i>Journal of the American Chemical Society</i> , 2019 , 141, 5835-5855	16.4	24
72	Nucleophile-Dependent Z/ E- and Regioselectivity in the Palladium-Catalyzed Asymmetric Allylic C-H Alkylation of 1,4-Dienes. <i>Journal of the American Chemical Society</i> , 2019 , 141, 5824-5834	16.4	53
71	Cobalt-Catalyzed Asymmetric Synthesis of gem-Bis(silyl)alkanes by Double Hydrosilylation of Aliphatic Terminal Alkynes. <i>Chem</i> , 2019 , 5, 881-895	16.2	66
70	Computational studies on Ni-catalyzed amide C-N bond activation. <i>Chemical Communications</i> , 2019 , 55, 11330-11341	5.8	25
69	Aluminum-Catalyzed Selective Hydroboration of Alkenes and Alkynylsilanes. <i>Organic Process Research and Development</i> , 2019 , 23, 1703-1708	3.9	9
68	Rhodium(III)-Catalyzed Asymmetric Borylative Cyclization of Cyclohexadienone-Containing 1,6-Dienes: An Experimental and DFT Study. <i>Journal of the American Chemical Society</i> , 2019 , 141, 12770-12779	16.4	33
67	Direct Synthesis of Aluminosilicate IWR Zeolite from a Strong Interaction between Zeolite Framework and Organic Template. <i>Journal of the American Chemical Society</i> , 2019 , 141, 18318-18324	16.4	15

66	A 3D Analogue of Phenyllithium: Solution-Phase, Solid-State, and Computational Study of the Lithiacarborane [Li-CB H]. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 19007-19013	16.4	8
65	Decarbonylative Phosphorylation of Carboxylic Acids via Redox-Neutral Palladium Catalysis. <i>Organic Letters</i> , 2019 , 21, 9256-9261	6.2	34
64	Reactivity Profiles of Diazo Amides, Esters, and Ketones in Transition-Metal-Free C-H Insertion Reactions. <i>Journal of the American Chemical Society</i> , 2019 , 141, 3558-3565	16.4	22
63	Migratory Aptitudes in Rearrangements of Destabilized Vinyl Cations. <i>Journal of Organic Chemistry</i> , 2019 , 84, 15154-15164	4.2	11
62	A double-site Lewis pair for highly active and living synthesis of sulfur-containing polymers. <i>Polymer Chemistry</i> , 2019 , 10, 6555-6560	4.9	7
61	Divergent pathway and reactivity control of intramolecular arene C-H vinylation by vinyl cations. <i>Organic and Biomolecular Chemistry</i> , 2019 , 17, 9135-9139	3.9	0
60	Cu/Chiral Phosphoric Acid-Catalyzed Asymmetric Three-Component Radical-Initiated 1,2-Dicarbofunctionalization of Alkenes. <i>Journal of the American Chemical Society</i> , 2019 , 141, 1074-1083	16.4	104
59	Engineered Cytochrome <i>c</i> -Catalyzed Lactone-Carbene B-H Insertion. <i>Synlett</i> , 2019 , 30, 378-382	2.2	16
58	Enantioselective Intramolecular Desymmetric α -Addition of Cyclohexanone to Propiolamide Catalyzed by Sodium L-Proline. <i>Chinese Journal of Chemistry</i> , 2019 , 37, 63-70	4.9	9
57	Temperature-dependent self-assembly of a purely organic cage in water. <i>Chemical Communications</i> , 2018 , 54, 3138-3141	5.8	22
56	Computational studies on Ni-catalyzed C-D bond activation of esters. <i>Journal of Organometallic Chemistry</i> , 2018 , 864, 68-80	2.3	18
55	Computational studies of cinchona alkaloid-catalyzed asymmetric Michael additions. <i>Chinese Chemical Letters</i> , 2018 , 29, 1585-1590	8.1	7
54	Mechanism and Origins of Chemo- and Regioselectivities of Pd-Catalyzed Intermolecular β -Bond Exchange between Benzocyclobutenones and Silacyclobutanes: A Computational Study. <i>Organometallics</i> , 2018 , 37, 592-602	3.8	25
53	Copper-Catalyzed Enantioselective Markovnikov Protoboration of β -Olefins Enabled by a Buttressed N-Heterocyclic Carbene Ligand. <i>Angewandte Chemie</i> , 2018 , 130, 1390-1394	3.6	26
52	The Distortion/Interaction Model for Analysis of Activation Energies of Organic Reactions 2018 , 371-402		2
51	Copper-Catalyzed Enantioselective Hydroboration of 1,1-Disubstituted Alkenes: Method Development, Applications and Mechanistic Studies. <i>Asian Journal of Organic Chemistry</i> , 2018 , 7, 103-106		11
50	Role of Subsurface Oxygen on Cu Surfaces for CO ₂ Electrochemical Reduction. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 16209-16215	3.8	49
49	Copper-Catalyzed Enantioselective Markovnikov Protoboration of β -Olefins Enabled by a Buttressed N-Heterocyclic Carbene Ligand. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 1376-1380	16.4	89

48	Stereoretentive C(sp)-S Cross-Coupling. <i>Journal of the American Chemical Society</i> , 2018 , 140, 18140-18150.	16.4	30
47	Stepwise versus Concerted Reductive Elimination Mechanisms in the Carbon-Diide Bond Formation of (DPEphos)RhMeI ₂ Complex. <i>Organometallics</i> , 2018 , 37, 4711-4719	3.8	3
46	Palladium-Catalyzed Decarbonylative Borylation of Carboxylic Acids: Tuning Reaction Selectivity by Computation. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16721-16726	16.4	66
45	N-Heterocyclic Carbene-Cu-Catalyzed Enantioselective Allenyl Conjugate Addition. <i>Organic Letters</i> , 2018 , 20, 6896-6900	6.2	10
44	Catalytic asymmetric synthesis of chiral trisubstituted heteroaromatic allenes from 1,3-enynes. <i>Communications Chemistry</i> , 2018 , 1,	6.3	25
43	Computational Study of Mechanism and Thermodynamics of Ni/IPr-Catalyzed Amidation of Esters. <i>Molecules</i> , 2018 , 23,	4.8	12
42	Alternate Heme Ligation Steers Activity and Selectivity in Engineered Cytochrome P450-Catalyzed Carbene-Transfer Reactions. <i>Journal of the American Chemical Society</i> , 2018 , 140, 16402-16407	16.4	75
41	Palladium-Catalyzed Decarbonylative Borylation of Carboxylic Acids: Tuning Reaction Selectivity by Computation. <i>Angewandte Chemie</i> , 2018 , 130, 16963-16968	3.6	14
40	Palladium-Catalyzed Selective Five-Fold Cascade Arylation of the 12-Vertex Monocarborane Anion by B-H Activation. <i>Journal of the American Chemical Society</i> , 2018 , 140, 13798-13807	16.4	67
39	Rhodium-Catalyzed Asymmetric Addition of Organoboronic Acids to Aldimines Using Chiral Spiro Monophosphite-Olefin Ligands: Method Development and Mechanistic Studies. <i>Journal of Organic Chemistry</i> , 2018 , 83, 11873-11885	4.2	15
38	Coulombic-enhanced hetero radical pairing interactions. <i>Nature Communications</i> , 2018 , 9, 1961	17.4	21
37	Mechanisms and Origins of Chemo- and Regioselectivities of Ru(II)-Catalyzed Decarboxylative C-H Alkenylation of Aryl Carboxylic Acids with Alkynes: A Computational Study. <i>Journal of the American Chemical Society</i> , 2017 , 139, 7224-7243	16.4	112
36	Ni-mediated C-N activation of amides and derived catalytic transformations. <i>Science China Chemistry</i> , 2017 , 60, 1413-1424	7.9	34
35	Understanding trends in electrochemical carbon dioxide reduction rates. <i>Nature Communications</i> , 2017 , 8, 15438	17.4	369
34	The Origins of Dramatic Differences in Five-Membered vs Six-Membered Chelation of Pd(II) on Efficiency of C(sp)-H Bond Activation. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8514-8521	16.4	73
33	(2+1)-Cycloaddition Reactions Give Further Evidence of the Nitrenium-like Character of 1-Aza-2-azoniaallene Salts. <i>Journal of Organic Chemistry</i> , 2017 , 82, 4001-4005	4.2	3
32	Palladium-Catalyzed Suzuki-Miyaura Coupling of Aryl Esters. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1311-1318	16.4	165
31	Factors Controlling the Reactivity and Chemoselectivity of Resonance Destabilized Amides in Ni-Catalyzed Decarbonylative and Nondecarbonylative Suzuki-Miyaura Coupling. <i>Journal of the American Chemical Society</i> , 2017 , 139, 15522-15529	16.4	73

30	Trapping White Phosphorus within a Purely Organic Molecular Container Produced by Imine Condensation. <i>Angewandte Chemie</i> , 2017 , 129, 14737-14742	3.6	20
29	Iron-Catalyzed Hydroboration of Vinylcyclopropanes. <i>Organic Letters</i> , 2017 , 19, 5422-5425	6.2	40
28	Mechanism and Origins of Ligand-Controlled Stereoselectivity of Ni-Catalyzed Suzuki-Miyaura Coupling with Benzylic Esters: A Computational Study. <i>Journal of the American Chemical Society</i> , 2017 , 139, 12994-13005	16.4	78
27	Trapping White Phosphorus within a Purely Organic Molecular Container Produced by Imine Condensation. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14545-14550	16.4	55
26	N-heterocyclic Carbene-Cu-Catalyzed Enantioselective Conjugate Additions with Alkenylboronic Esters as Nucleophiles. <i>ACS Catalysis</i> , 2017 , 7, 5693-5698	13.1	19
25	The mechanism and regioselectivities of (NHC)nickel(ii)hydride-catalyzed cycloisomerization of dienes: a computational study. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 7131-7139	3.9	13
24	Experimental-Computational Synergy for Selective Pd(II)-Catalyzed C-H Activation of Aryl and Alkyl Groups. <i>Accounts of Chemical Research</i> , 2017 , 50, 2853-2860	24.3	150
23	Ligand-accelerated enantioselective methylene C(sp ³)-H bond activation. <i>Science</i> , 2016 , 353, 1023-1027	33.3	248
22	Nickel-Catalyzed Activation of Acyl C=O Bonds of Methyl Esters. <i>Angewandte Chemie</i> , 2016 , 128, 2860-2864	6.4	33
21	How Doped MoS ₂ Breaks Transition-Metal Scaling Relations for CO ₂ Electrochemical Reduction. <i>ACS Catalysis</i> , 2016 , 6, 4428-4437	13.1	193
20	Distortion-Controlled Reactivity and Molecular Dynamics of Dehydro-Diels-Alder Reactions. <i>Journal of the American Chemical Society</i> , 2016 , 138, 8247-52	16.4	51
19	Nickel-Catalyzed Activation of Acyl C-O Bonds of Methyl Esters. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 2810-4	16.4	115
18	Mechanism and Dynamics of Intramolecular C-H Insertion Reactions of 1-Aza-2-azoniaallene Salts. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9100-7	16.4	21
17	Conversion of amides to esters by the nickel-catalysed activation of amide C-N bonds. <i>Nature</i> , 2015 , 524, 79-83	50.4	377
16	Mechanistic Insights into Two-Phase Radical C-H Arylations. <i>ACS Central Science</i> , 2015 , 1, 456-462	16.8	22
15	Computational Exploration of Mechanism and Selectivities of (NHC)Nickel(II)hydride-Catalyzed Hydroalkenylations of Styrene with α -Olefins. <i>ACS Catalysis</i> , 2015 , 5, 5545-5555	13.1	45
14	Ligand-Controlled Diastereoselective 1,3-Dipolar Cycloadditions of Azomethine Ylides with Methacrylonitrile. <i>Organic Letters</i> , 2015 , 17, 6166-9	6.2	14
13	Iodoarene-Catalyzed Stereospecific Intramolecular sp ³ C-H Amination: Reaction Development and Mechanistic Insights. <i>Journal of the American Chemical Society</i> , 2015 , 137, 7564-7	16.4	111

12	Mechanisms and origins of switchable chemoselectivity of Ni-catalyzed C(aryl)-O and C(acyl)-O activation of aryl esters with phosphine ligands. <i>Journal of the American Chemical Society</i> , 2014 , 136, 2017-25	16.4	191
11	Mechanism, reactivity, and selectivity of nickel-catalyzed [4 + 4 + 2] cycloadditions of dienes and alkynes. <i>Journal of Organic Chemistry</i> , 2014 , 79, 12177-84	4.2	13
10	Why alkynyl substituents dramatically accelerate hexadehydro-Diels-Alder (HDDA) reactions: stepwise mechanisms of HDDA cycloadditions. <i>Organic Letters</i> , 2014 , 16, 5702-5	6.2	43
9	Distortion-accelerated cycloadditions and strain-release-promoted cycloreversions in the organocatalytic carbonyl-olefin metathesis. <i>Chemical Science</i> , 2014 , 5, 471-475	9.4	80
8	How tethers control the chemo- and regioselectivities of intramolecular cycloadditions between aryl-1-aza-2-azoniaallenes and alkenes. <i>Organic Letters</i> , 2014 , 16, 4260-3	6.2	21
7	Mechanism and selectivity of N-triflylphosphoramidate catalyzed (3(+) + 2) cycloaddition between hydrazones and alkenes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 13769-80	16.4	58
6	Ni(NHC)]-catalyzed cycloaddition of diynes and tropone: apparent enone cycloaddition involving an 8π insertion. <i>Journal of the American Chemical Society</i> , 2014 , 136, 17844-51	16.4	25
5	Reactivity and chemoselectivity of allenes in Rh(I)-catalyzed intermolecular (5 + 2) cycloadditions with vinylcyclopropanes: allene-mediated rhodacycle formation can poison Rh(I)-catalyzed cycloadditions. <i>Journal of the American Chemical Society</i> , 2014 , 136, 17273-83	16.4	88
4	Mechanism and origins of ligand-controlled selectivities in [Ni(NHC)]-catalyzed intramolecular (5 + 2) cycloadditions and homo-ene reactions: a theoretical study. <i>Journal of the American Chemical Society</i> , 2013 , 135, 1456-62	16.4	63
3	Mechanism and origins of selectivity in Ru(II)-catalyzed intramolecular (5+2) cycloadditions and ene reactions of vinylcyclopropanes and alkynes from density functional theory. <i>Journal of the American Chemical Society</i> , 2013 , 135, 6588-600	16.4	84
2	Nickel-catalyzed amination of aryl carbamates and sequential site-selective cross-couplings. <i>Chemical Science</i> , 2011 , 2, 1766-1771	9.4	139
1	A Molecular Stereostructure Descriptor Based On Spherical Projection. <i>Synlett</i> , 2011 , 32,	2.2	3