Xin Hong

List of Publications by Citations

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	Conversion of amides to esters by the nickel-catalysed activation of amide C-N bonds. *Nature*, **2015**, 524, 79-83	50.4	377
136	Understanding trends in electrochemical carbon dioxide reduction rates. *Nature Communications*, **2017**, 8, 15438	17.4	369
135	Ligand-accelerated enantioselective methylene C(sp3)-H bond activation. *Science*, **2016**, 353, 1023-1027	33.3	248
134	How Doped MoS2 Breaks Transition-Metal Scaling Relations for CO2 Electrochemical Reduction. *ACS Catalysis*, **2016**, 6, 4428-4437	13.1	193
133	Mechanisms and origins of switchable chemoselectivity of Ni-catalyzed C(aryl)-O and C(acyl)-O activation of aryl esters with phosphine ligands. *Journal of the American Chemical Society*, **2014**, 136, 2017-25	16.4	191
132	Palladium-Catalyzed Suzuki-Miyaura Coupling of Aryl Esters. *Journal of the American Chemical Society*, **2017**, 139, 1311-1318	16.4	165
131	Experimental-Computational Synergy for Selective Pd(II)-Catalyzed C-H Activation of Aryl and Alkyl Groups. *Accounts of Chemical Research*, **2017**, 50, 2853-2860	24.3	150
130	Nickel-catalyzed amination of aryl carbamates and sequential site-selective cross-couplings. *Chemical Science*, **2011**, 2, 1766-1771	9.4	139
129	Enantioselective Synthesis of Atropisomers Featuring Pentatomic Heteroaromatics by Pd-Catalyzed C□H Alkynylation. *ACS Catalysis*, **2019**, 9, 1956-1961	13.1	117
128	Nickel-Catalyzed Activation of Acyl C-O Bonds of Methyl Esters. *Angewandte Chemie - International Edition*, **2016**, 55, 2810-4	16.4	115
127	Mechanisms and Origins of Chemo- and Regioselectivities of Ru(II)-Catalyzed Decarboxylative C-H Alkenylation of Aryl Carboxylic Acids with Alkynes: A Computational Study. *Journal of the American Chemical Society*, **2017**, 139, 7224-7243	16.4	112
126	Iodoarene-Catalyzed Stereospecific Intramolecular sp(3) C-H Amination: Reaction Development and Mechanistic Insights. *Journal of the American Chemical Society*, **2015**, 137, 7564-7	16.4	111
125	Cu/Chiral Phosphoric Acid-Catalyzed Asymmetric Three-Component Radical-Initiated 1,2-Dicarbofunctionalization of Alkenes. *Journal of the American Chemical Society*, **2019**, 141, 1074-1083	16.4	104
124	Highly Chemoselective, Transition-Metal-Free Transamidation of Unactivated Amides and Direct Amidation of Alkyl Esters by N-C/O-C Cleavage. *Journal of the American Chemical Society*, **2019**, 141, 11161-11172	16.4	98
123	Copper-Catalyzed Enantioselective Markovnikov Protoboration of □Olefins Enabled by a Buttressed N-Heterocyclic Carbene Ligand. *Angewandte Chemie - International Edition*, **2018**, 57, 1376-1380	16.4	89
122	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. *Journal of the American Chemical Society*, **2014**, 136, 17273-83	16.4	88
121	Mechanism and origins of selectivity in Ru(II)-catalyzed intramolecular (5+2) cycloadditions and ene reactions of vinylcyclopropanes and alkynes from density functional theory. *Journal of the American Chemical Society*, **2013**, 135, 6588-600	16.4	84

120	Tuning the LUMO Energy of an Organic Interphase to Stabilize Lithium Metal Batteries. *ACS Energy Letters*, **2019**, 4, 644-650	20.1	80
119	Distortion-accelerated cycloadditions and strain-release-promoted cycloreversions in the organocatalytic carbonyl-olefin metathesis. *Chemical Science*, **2014**, 5, 471-475	9.4	80
118	Mechanism and Origins of Ligand-Controlled Stereoselectivity of Ni-Catalyzed Suzuki-Miyaura Coupling with Benzylic Esters: A Computational Study. *Journal of the American Chemical Society*, **2017**, 139, 12994-13005	16.4	78
117	Alternate Heme Ligation Steers Activity and Selectivity in Engineered Cytochrome P450-Catalyzed Carbene-Transfer Reactions. *Journal of the American Chemical Society*, **2018**, 140, 16402-16407	16.4	75
116	The Origins of Dramatic Differences in Five-Membered vs Six-Membered Chelation of Pd(II) on Efficiency of C(sp)-H Bond Activation. *Journal of the American Chemical Society*, **2017**, 139, 8514-8521	16.4	73
115	Factors Controlling the Reactivity and Chemoselectivity of Resonance Destabilized Amides in Ni-Catalyzed Decarbonylative and Nondecarbonylative Suzuki-Miyaura Coupling. *Journal of the American Chemical Society*, **2017**, 139, 15522-15529	16.4	73
114	Palladium-Catalyzed Selective Five-Fold Cascade Arylation of the 12-Vertex Monocarborane Anion by B-H Activation. *Journal of the American Chemical Society*, **2018**, 140, 13798-13807	16.4	67
113	Cobalt-Catalyzed Asymmetric Synthesis of gem-Bis(silyl)alkanes by Double Hydrosilylation of Aliphatic Terminal Alkynes. *CheM*, **2019**, 5, 881-895	16.2	66
112	Palladium-Catalyzed Decarbonylative Borylation of Carboxylic Acids: Tuning Reaction Selectivity by Computation. *Angewandte Chemie - International Edition*, **2018**, 57, 16721-16726	16.4	66
111	Mechanism and origins of ligand-controlled selectivities in [Ni(NHC)]-catalyzed intramolecular (5 + 2) cycloadditions and homo-ene reactions: a theoretical study. *Journal of the American Chemical Society*, **2013**, 135, 1456-62	16.4	63
110	Atroposelective Synthesis of Axially Chiral Styrenes via an Asymmetric CH Functionalization Strategy. *CheM*, **2020**, 6, 497-511	16.2	61
109	Pillararene Host-Guest Complexation Induced Chirality Amplification: A New Way to Detect Cryptochiral Compounds. *Angewandte Chemie - International Edition*, **2020**, 59, 10868-10872	16.4	58
108	Mechanism and selectivity of N-triflylphosphoramide catalyzed (3(+) + 2) cycloaddition between hydrazones and alkenes. *Journal of the American Chemical Society*, **2014**, 136, 13769-80	16.4	58
107	Trapping White Phosphorus within a Purely Organic Molecular Container Produced by Imine Condensation. *Angewandte Chemie - International Edition*, **2017**, 56, 14545-14550	16.4	55
106	Nucleophile-Dependent Z/ E- and Regioselectivity in the Palladium-Catalyzed Asymmetric Allylic C-H Alkylation of 1,4-Dienes. *Journal of the American Chemical Society*, **2019**, 141, 5824-5834	16.4	53
105	Distortion-Controlled Reactivity and Molecular Dynamics of Dehydro-Diels-Alder Reactions. *Journal of the American Chemical Society*, **2016**, 138, 8247-52	16.4	51
104	Palladium-catalyzed decarbonylative Suzuki-Miyaura cross-coupling of amides by carbon-nitrogen bond activation. *Chemical Science*, **2019**, 10, 9865-9871	9.4	49
103	Role of Subsurface Oxygen on Cu Surfaces for CO2 Electrochemical Reduction. *Journal of Physical Chemistry C*, **2018**, 122, 16209-16215	3.8	49

102	Organocatalytic Enantioselective Conia-Ene-Type Carbocyclization of Ynamide Cyclohexanones: Regiodivergent Synthesis of Morphans and Normorphans. *Angewandte Chemie - International Edition*, **2019**, 58, 16252-16259	16.4	48
101	Isolated boron in zeolite for oxidative dehydrogenation of propane. *Science*, **2021**, 372, 76-80	33.3	48
100	Synthesis of Biaryls via Decarbonylative Palladium-Catalyzed Suzuki-Miyaura Cross-Coupling of Carboxylic Acids. *IScience*, **2019**, 19, 749-759	6.1	46
99	Computational Exploration of Mechanism and Selectivities of (NHC)Nickel(II)hydride-Catalyzed Hydroalkenylations of Styrene with Olefins. *ACS Catalysis*, **2015**, 5, 5545-5555	13.1	45
98	Catalytic enantioselective desymmetrizing functionalization of alkyl radicals via Cu(i)/CPA cooperative catalysis. *Nature Catalysis*, **2020**, 3, 401-410	36.5	43
97	Why alkynyl substituents dramatically accelerate hexadehydro-Diels-Alder (HDDA) reactions: stepwise mechanisms of HDDA cycloadditions. *Organic Letters*, **2014**, 16, 5702-5	6.2	43
96	Iron-Catalyzed Hydroboration of Vinylcyclopropanes. *Organic Letters*, **2017**, 19, 5422-5425	6.2	40
95	Poly(thioether)s from Closed-System One-Pot Reaction of Carbonyl Sulfide and Epoxides by Organic Bases. *Journal of the American Chemical Society*, **2019**, 141, 5490-5496	16.4	39
94	Enantioselective Synthesis of Atropisomeric Anilides via Pd(II)-Catalyzed Asymmetric C-H Olefination. *Journal of the American Chemical Society*, **2020**, 142, 18266-18276	16.4	36
93	Nickel-Catalyzed Kumada Coupling of Boc-Activated Aromatic Amines via Nondirected Selective Aryl C-N Bond Cleavage. *Organic Letters*, **2019**, 21, 1226-1231	6.2	35
92	Ni-mediated C N activation of amides and derived catalytic transformations. *Science China Chemistry*, **2017**, 60, 1413-1424	7.9	34
91	Decarbonylative Phosphorylation of Carboxylic Acids via Redox-Neutral Palladium Catalysis. *Organic Letters*, **2019**, 21, 9256-9261	6.2	34
90	Nickel-Catalyzed Activation of Acyl C O Bonds of Methyl Esters. *Angewandte Chemie*, **2016**, 128, 2860-2864	9.6	33
89	Rhodium(III)-Catalyzed Asymmetric Borylative Cyclization of Cyclohexadienone-Containing 1,6-Dienes: An Experimental and DFT Study. *Journal of the American Chemical Society*, **2019**, 141, 12770-12779	16.4	33
88	Highly-chemoselective step-down reduction of carboxylic acids to aromatic hydrocarbons palladium catalysis. *Chemical Science*, **2019**, 10, 5736-5742	9.4	30
87	Stereoretentive C(sp)-S Cross-Coupling. *Journal of the American Chemical Society*, **2018**, 140, 18140-18150	16.4	30
86	Total Syntheses of Rhodomolleins XX and XXII: A Reductive Epoxide-Opening/Beckwith-Dowd Approach. *Angewandte Chemie - International Edition*, **2019**, 58, 8556-8560	16.4	29
85	Predicting Regioselectivity in Radical C-H Functionalization of Heterocycles through Machine Learning. *Angewandte Chemie - International Edition*, **2020**, 59, 13253-13259	16.4	27

84	Copper-Catalyzed Enantioselective Markovnikov Protoboration of □Olefins Enabled by a Buttressed N-Heterocyclic Carbene Ligand. *Angewandte Chemie*, **2018**, 130, 1390-1394	3.6	26
83	Mechanism and Origins of Chemo- and Regioselectivities of Pd-Catalyzed Intermolecular □Bond Exchange between Benzocyclobutenones and Silacyclobutanes: A Computational Study. *Organometallics*, **2018**, 37, 592-602	3.8	25
82	Computational studies on Ni-catalyzed amide C-N bond activation. *Chemical Communications*, **2019**, 55, 11330-11341	5.8	25
81	Ni(NHC)]-catalyzed cycloaddition of diynes and tropone: apparent enone cycloaddition involving an 8□insertion. *Journal of the American Chemical Society*, **2014**, 136, 17844-51	16.4	25
80	Catalytic asymmetric synthesis of chiral trisubstituted heteroaromatic allenes from 1,3-enynes. *Communications Chemistry*, **2018**, 1,	6.3	25
79	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. *Journal of the American Chemical Society*, **2019**, 141, 5835-5855	16.4	24
78	Mechanistic Insights into Two-Phase Radical C-H Arylations. *ACS Central Science*, **2015**, 1, 456-462	16.8	22
77	Nickel-Catalyzed Alkyl-Alkyl Cross-Electrophile Coupling Reaction of 1,3-Dimesylates for the Synthesis of Alkylcyclopropanes. *Journal of the American Chemical Society*, **2020**, 142, 5017-5023	16.4	22
76	Temperature-dependent self-assembly of a purely organic cage in water. *Chemical Communications*, **2018**, 54, 3138-3141	5.8	22
75	Bimetallic Cooperative Catalysis for Decarbonylative Heteroarylation of Carboxylic Acids via C-O/C-H Coupling. *Angewandte Chemie - International Edition*, **2021**, 60, 10690-10699	16.4	22
74	Reactivity Profiles of Diazo Amides, Esters, and Ketones in Transition-Metal-Free C-H Insertion Reactions. *Journal of the American Chemical Society*, **2019**, 141, 3558-3565	16.4	22
73	Mechanism and Dynamics of Intramolecular C-H Insertion Reactions of 1-Aza-2-azoniaallene Salts. *Journal of the American Chemical Society*, **2015**, 137, 9100-7	16.4	21
72	Catalytic and Photochemical Strategies to Stabilized Radicals Based on Anomeric Nucleophiles. *Journal of the American Chemical Society*, **2020**, 142, 11102-11113	16.4	21
71	How tethers control the chemo- and regioselectivities of intramolecular cycloadditions between aryl-1-aza-2-azoniaallenes and alkenes. *Organic Letters*, **2014**, 16, 4260-3	6.2	21
70	Versatility of Boron-Mediated Coupling Reaction of Oxetanes and Epoxides with CO2: Selective Synthesis of Cyclic Carbonates or Linear Polycarbonates. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 13056-13063	8.3	21
69	Coulombic-enhanced hetero radical pairing interactions. *Nature Communications*, **2018**, 9, 1961	17.4	21
68	Trapping White Phosphorus within a Purely Organic Molecular Container Produced by Imine Condensation. *Angewandte Chemie*, **2017**, 129, 14737-14742	3.6	20
67	N-heterocyclic Carbene□Cu-Catalyzed Enantioselective Conjugate Additions with Alkenylboronic Esters as Nucleophiles. *ACS Catalysis*, **2017**, 7, 5693-5698	13.1	19

66	Dearomative 1,4-difunctionalization of naphthalenes via palladium-catalyzed tandem Heck/Suzuki coupling reaction. *Nature Communications*, **2020**, 11, 4380	17.4	19
65	Diastereoselective olefin amidoacylation via photoredox PCET/nickel-dual catalysis: reaction scope and mechanistic insights. *Chemical Science*, **2020**, 11, 4131-4137	9.4	18
64	Computational studies on Ni-catalyzed C O bond activation of esters. *Journal of Organometallic Chemistry*, **2018**, 864, 68-80	2.3	18
63	Engineered Cytochrome -Catalyzed Lactone-Carbene B-H Insertion. *Synlett*, **2019**, 30, 378-382	2.2	16
62	Azobenzene-Based Macrocyclic Arenes: Synthesis, Crystal Structures, and Light-Controlled Molecular Encapsulation and Release. *Angewandte Chemie - International Edition*, **2021**, 60, 5766-5770	16.4	16
61	Selective Separation of Phenanthrene from Aromatic Isomer Mixtures by a Water-Soluble Azobenzene-Based Macrocycle. *Journal of the American Chemical Society*, **2021**, 143, 3081-3085	16.4	16
60	Direct Synthesis of Aluminosilicate IWR Zeolite from a Strong Interaction between Zeolite Framework and Organic Template. *Journal of the American Chemical Society*, **2019**, 141, 18318-18324	16.4	15
59	Constraining Homo- and Heteroanion Dimers in Ultraclose Proximity within a Self-Assembled Hexacationic Cage. *Journal of the American Chemical Society*, **2020**, 142, 20182-20190	16.4	15
58	Divergent rhodium-catalyzed electrochemical vinylic C-H annulation of acrylamides with alkynes. *Nature Communications*, **2021**, 12, 930	17.4	15
57	Rhodium-Catalyzed Asymmetric Addition of Organoboronic Acids to Aldimines Using Chiral Spiro Monophosphite-Olefin Ligands: Method Development and Mechanistic Studies. *Journal of Organic Chemistry*, **2018**, 83, 11873-11885	4.2	15
56	How Solvents Control the Stereospecificity of Ni-Catalyzed Miyaura Borylation of Allylic Pivalates. *ACS Catalysis*, **2019**, 9, 9589-9598	13.1	14
55	Ligand-Controlled Diastereoselective 1,3-Dipolar Cycloadditions of Azomethine Ylides with Methacrylonitrile. *Organic Letters*, **2015**, 17, 6166-9	6.2	14
54	Asymmetric dearomatization catalysed by chiral Br sted acids via activation of ynamides. *Nature Chemistry*, **2021**, 13, 1093-1100	17.6	14
53	Decarbonylative Suzuki-Miyaura Cross-Coupling of Aroyl Chlorides. *Organic Letters*, **2020**, 22, 6434-6440	6.2	14
52	Palladium-Catalyzed Decarbonylative Borylation of Carboxylic Acids: Tuning Reaction Selectivity by Computation. *Angewandte Chemie*, **2018**, 130, 16963-16968	3.6	14
51	Generalized ionothermal synthesis of silica-based zeolites. *Microporous and Mesoporous Materials*, **2019**, 286, 163-168	5.3	13
50	C-H Acidity and Arene Nucleophilicity as Orthogonal Control of Chemoselectivity in Dual C-H Bond Activation. *Organic Letters*, **2019**, 21, 2360-2364	6.2	13
49	Iron-Catalyzed Asymmetric Hydrosilylation of Vinylcyclopropanes via Stereospecific C-C Bond Cleavage. *IScience*, **2020**, 23, 100985	6.1	13

48	Mechanism, reactivity, and selectivity of nickel-catalyzed [4 + 4 + 2] cycloadditions of dienes and alkynes. *Journal of Organic Chemistry*, **2014**, 79, 12177-84	4.2	13
47	The mechanism and regioselectivities of (NHC)nickel(ii)hydride-catalyzed cycloisomerization of dienes: a computational study. *Organic and Biomolecular Chemistry*, **2017**, 15, 7131-7139	3.9	13
46	Cp*Co(III)-Catalyzed Enantioselective Hydroarylation of Unactivated Terminal Alkenes via C-H Activation. *Journal of the American Chemical Society*, **2021**, 143, 19112-19120	16.4	13
45	Atroposelective synthesis of -aryl peptoid atropisomers a palladium(ii)-catalyzed asymmetric C-H alkynylation strategy. *Chemical Science*, **2021**, 12, 9391-9397	9.4	13
44	Computational Study of Mechanism and Thermodynamics of Ni/IPr-Catalyzed Amidation of Esters. *Molecules*, **2018**, 23,	4.8	12
43	Total Syntheses of (+)-Sarcophytin, (+)-Chatancin, (-)-3-Oxochatancin, and (-)-Pavidolide B: A Divergent Approach. *Angewandte Chemie - International Edition*, **2019**, 58, 5100-5104	16.4	11
42	Copper-Catalyzed Enantioselective Hydroboration of 1,1-Disubstituted Alkenes: Method Development, Applications and Mechanistic Studies. *Asian Journal of Organic Chemistry*, **2018**, 7, 103-106	3	11
41	Mechanism and Selectivity Control in Ni- and Pd-Catalyzed Cross-Couplings Involving Carbon-Oxygen Bond Activation. *Accounts of Chemical Research*, **2021**, 54, 2158-2171	24.3	11
40	Kinetic Resolution of Tertiary Benzyl Alcohols via Palladium/Chiral Norbornene Cooperative Catalysis. *Angewandte Chemie - International Edition*, **2021**, 60, 12824-12828	16.4	11
39	Migratory Aptitudes in Rearrangements of Destabilized Vinyl Cations. *Journal of Organic Chemistry*, **2019**, 84, 15154-15164	4.2	11
38	Predicting Regioselectivity in Radical C–H Functionalization of Heterocycles through Machine Learning. *Angewandte Chemie*, **2020**, 132, 13355-13361	3.6	10
37	Low-Temperature Nickel-Catalyzed C-N Cross-Coupling via Kinetic Resolution Enabled by a Bulky and Flexible Chiral N-Heterocyclic Carbene Ligand. *Angewandte Chemie - International Edition*, **2021**, 60, 16077-16084	16.4	10
36	N-Heterocyclic Carbene-Cu-Catalyzed Enantioselective Allenyl Conjugate Addition. *Organic Letters*, **2018**, 20, 6896-6900	6.2	10
35	Optically Active Flavaglines-Inspired Molecules by a Palladium-Catalyzed Decarboxylative Dearomative Asymmetric Allylic Alkylation. *Journal of the American Chemical Society*, **2020**, 142, 12039-12045	16.4	9
34	Aluminum-Catalyzed Selective Hydroboration of Alkenes and Alkynylsilanes. *Organic Process Research and Development*, **2019**, 23, 1703-1708	3.9	9
33	Engaging Sulfonamides: Intramolecular Cross-Electrophile Coupling Reaction of Sulfonamides with Alkyl Chlorides. *Journal of Organic Chemistry*, **2020**, 85, 1775-1793	4.2	9
32	Enantioselective Intramolecular Desymmetric Addition of Cyclohexanone to Propiolamide Catalyzed by Sodium L-Prolinate. *Chinese Journal of Chemistry*, **2019**, 37, 63-70	4.9	9
31	An axial-to-axial chirality transfer strategy for atroposelective construction of C–N axial chirality. *CheM*, **2021**, 7, 1917-1932	16.2	9

30	Carboxylate breaks the arene C-H bond a hydrogen-atom-transfer mechanism in electrochemical cobalt catalysis. *Chemical Science*, **2020**, 11, 5790-5796	9.4	8
29	A 3D Analogue of Phenyllithium: Solution-Phase, Solid-State, and Computational Study of the Lithiacarborane [Li-CB H]. *Angewandte Chemie - International Edition*, **2019**, 58, 19007-19013	16.4	8
28	Computational studies of cinchona alkaloid-catalyzed asymmetric Michael additions. *Chinese Chemical Letters*, **2018**, 29, 1585-1590	8.1	7
27	A double-site Lewis pair for highly active and living synthesis of sulfur-containing polymers. *Polymer Chemistry*, **2019**, 10, 6555-6560	4.9	7
26	Synthesis of Axially Chiral N-Arylindoles via Atroposelective Cyclization of Ynamides Catalyzed by Chiral Br□sted Acids.. *Angewandte Chemie - International Edition*, **2022**,	16.4	7
25	Understanding the axial chirality control of quinidine-derived ammonium cation-directed O-alkylation: a computational study. *Organic and Biomolecular Chemistry*, **2019**, 17, 1916-1923	3.9	6
24	Directed B□H functionalization of the closo-dodecaborate cluster via concerted iodination□deprotonation: reaction mechanism and origins of regioselectivity. *Organic Chemistry Frontiers*, **2020**, 7, 3648-3655	5.2	6
23	Direct Synthesis of Ketones from Methyl Esters by Nickel-Catalyzed Suzuki-Miyaura Coupling. *Angewandte Chemie - International Edition*, **2021**, 60, 13476-13483	16.4	6
22	A diquat-containing macrocyclic anion acceptor in pure water. *Chemical Communications*, **2019**, 55, 8297-8300	4.2	5
21	Unexpected Stability of CO-Coordinated Palladacycle in Bidentate Auxiliary Directed C(sp3)□H Bond Activation: A Combined Experimental and Computational Study. *Organometallics*, **2019**, 38, 2022-2030	2.8	5
20	Formation of phytosterol photooxidation products: A chemical reaction mechanism for light-induced oxidation. *Food Chemistry*, **2020**, 333, 127430	8.5	5
19	Rhodium(III)-Catalyzed Asymmetric Reductive Cyclization of Cyclohexadienone-Containing 1,6-Dienes via an Anti-Michael/Michael Cascade Process. *ACS Catalysis*, **2021**, 11, 8015-8022	13.1	4
18	(2+1)-Cycloaddition Reactions Give Further Evidence of the Nitrenium-like Character of 1-Aza-2-azoniaallene Salts. *Journal of Organic Chemistry*, **2017**, 82, 4001-4005	4.2	3
17	Scaling relationships and volcano plots of homogeneous transition metal catalysis. *Dalton Transactions*, **2020**, 49, 3652-3657	4.3	3
16	A Molecular Stereostructure Descriptor Based On Spherical Projection. *Synlett*,32,	2.2	3
15	Direct Synthesis of Ketones from Methyl Esters by Nickel-Catalyzed Suzuki□Miyaura Coupling. *Angewandte Chemie*, **2021**, 133, 13588-13595	3.6	3
14	Stepwise versus Concerted Reductive Elimination Mechanisms in the Carbon□Iodide Bond Formation of (DPEphos)RhMeI2 Complex. *Organometallics*, **2018**, 37, 4711-4719	3.8	3
13	Towards Data-Driven Design of Asymmetric Hydrogenation of Olefins: Database and Hierarchical Learning. *Angewandte Chemie - International Edition*, **2021**, 60, 22804-22811	16.4	3

12	Computation-Guided Development of the "Click" -Quinone Methide Cycloaddition with Improved Kinetics. *Organic Letters*, **2020**, 22, 2920-2924	6.2	2
11	The Distortion/Interaction Model for Analysis of Activation Energies of Organic Reactions **2018**, 371-402		2
10	Bimetallic Cooperative Catalysis for Decarbonylative Heteroarylation of Carboxylic Acids via C-O/C-H Coupling. *Angewandte Chemie*, **2021**, 133, 10785-10794	3.6	2
9	Understanding the Structure-Activity Relationship of Ni-Catalyzed Amide C□N Bond Activation using Distortion/Interaction Analysis. *ChemCatChem*, **2021**, 13, 3536-3542	5.2	2
8	A [15]paracyclophenone and its fluorenone-containing derivatives: syntheses and binding to nerve agent mimics via aryl-CH hydrogen bonding interactions. *Organic Chemistry Frontiers*, **2021**, 8, 25-31	5.2	2
7	Synthesis of Aluminophosphate Molecular Sieves in Alkaline Media. *Chemistry - A European Journal*, **2020**, 26, 11408-11411	4.8	1
6	Understanding the mechanism and reactivity of Pd-catalyzed C-P bond metathesis of aryl phosphines: a computational study. *Organic and Biomolecular Chemistry*, **2020**, 18, 5414-5419	3.9	1
5	Nickel-Catalyzed Domino Cross-Electrophile Coupling Dicarbofunctionalization Reaction To Afford Vinylcyclopropanes. *ACS Catalysis*, **2021**, 11, 14369-14380	13.1	1
4	Entropic Path Sampling: Computational Protocol to Evaluate Entropic Profile along a Reaction Path. *Journal of Physical Chemistry Letters*, **2021**, 12, 10713-10719	6.4	1
3	Towards Data-Driven Design of Asymmetric Hydrogenation of Olefins: Database and Hierarchical Learning. *Angewandte Chemie*, **2021**, 133, 22986	3.6	1
2	Low-Temperature Nickel-Catalyzed C□N Cross-Coupling via Kinetic Resolution Enabled by a Bulky and Flexible Chiral N-Heterocyclic Carbene Ligand. *Angewandte Chemie*, **2021**, 133, 16213-16220	3.6	0
1	Divergent pathway and reactivity control of intramolecular arene C-H vinylation by vinyl cations. *Organic and Biomolecular Chemistry*, **2019**, 17, 9135-9139	3.9	0