Zheng-Wang Qu

List of Publications by Year in Descending Order

69 papers	1,094 citations	19 h-index	30 g-index
80 ext. papers	1,454 ext. citations	7.5 avg, IF	4.94 L-index

#	Paper	IF	Citations
69	HFIP-Assisted Single C-F Bond Activation of Trifluoromethyl Ketones using Visible-Light Photoredox Catalysis. *Angewandte Chemie - International Edition*, **2021**,	16.4	8
68	Selective Catalytic Frustrated Lewis Pair Hydrogenation of CO in the Presence of Silylhalides. *Angewandte Chemie - International Edition*, **2021**, 60, 25771-25775	16.4	2
67	Selective Catalytic Frustrated Lewis Pair Hydrogenation of CO2 in the Presence of Silylhalides. *Angewandte Chemie*, **2021**, 133, 25975	3.6	1
66	Boron-Catalyzed Hydroarylation of 1,3-Dienes with Arylamines. *Organic Letters*, **2021**, 23, 8952-8957	6.2	3
65	Reactions of B2(o-tolyl)4 with Boranes: Assembly of the Pentaborane(9), HB[B(o-tolyl)(□H)]4. *Angewandte Chemie*, **2021**, 133, 8613-8617	3.6	0
64	LiAlH4-catalyzed Imine Hydrogenation with Dihydrogen: New DFT Mechanistic Insights. *ChemCatChem*, **2021**, 13, 3401-3404	5.2	2
63	Facile Synthesis of Cyanide and Isocyanides from CO. *Angewandte Chemie*, **2021**, 133, 17102-17106	3.6	2
62	Facile Synthesis of Cyanide and Isocyanides from CO. *Angewandte Chemie - International Edition*, **2021**, 60, 16965-16969	16.4	4
61	A Primary Acyl Phosphine Stabilized by a Phosphonium Ylide. *Angewandte Chemie*, **2021**, 133, 18695-18699	3.6	1
60	A Primary Acyl Phosphine Stabilized by a Phosphonium Ylide. *Angewandte Chemie - International Edition*, **2021**, 60, 18547-18551	16.4	2
59	Mechanistic Insights for Dimethyl Sulfoxide Catalyzed Aromatic Chlorination Reactions. *ChemCatChem*, **2021**, 13, 207-211	5.2	2
58	The Reactivity of Isomeric Nitrenium Lewis Acids with Phosphines, Carbenes, and Phosphide. *Chemistry - A European Journal*, **2021**, 27, 2861-2867	4.8	3
57	Lithium Dicyclohexylamide in Transition-Metal-Free Fischer-Tropsch Chemistry. *Journal of the American Chemical Society*, **2021**, 143, 634-638	16.4	22
56	A case study on the conversion of Li/Cl phosphinidenoid into phosphinidene complexes. *Dalton Transactions*, **2021**, 50, 739-745	4.3	5
55	Mechanistic Insights for Nitromethane Activation into Reactive Nitrogenating Reagents. *ChemCatChem*, **2021**, 13, 2132-2137	5.2	2
54	Mechanistic Insights for Acid-catalyzed Rearrangement of Quinoxalin-2-one with Diamine and Enamine. *ChemCatChem*, **2021**, 13, 1503-1508	5.2	2
53	Reactions of B (o-tolyl) with Boranes: Assembly of the Pentaborane(9), HB[B(o-tolyl)(□H)]. *Angewandte Chemie - International Edition*, **2021**, 60, 8532-8536	16.4	3

52	Reactions of a Dilithiomethane with CO and N O: An Avenue to an Anionic Ketene and a Hexafunctionalized Benzene. *Angewandte Chemie - International Edition*, **2021**, 60, 25281-25285	16.4	4
51	Steric Influence on Reactions of Benzyl Potassium Species with CO. *Chemistry - an Asian Journal*, **2021**, 16, 3640-3644	4.5	1
50	Synthesis and Mechanistic Insights of the Formation of 3-Hydroxyquinolin-2-ones including Viridicatin from 2-Chloro-,3-diaryloxirane-2-carboxamides under Acid-Catalyzed Rearrangements. *Journal of Organic Chemistry*, **2021**, 86, 13514-13534	4.2	2
49	Acid-Catalyzed Rearrangements of 3-Aryloxirane-2-Carboxamides: Novel DFT Mechanistic Insights. *ChemistryOpen*, **2020**, 9, 743-747	2.3	2
48	Addition reactions and diazomethane capture by the intramolecular P-O-B FLP: tBuPOBcat. *Dalton Transactions*, **2020**, 49, 901-910	4.3	11
47	Formation and properties of phosphaquinomethane tungsten(0) complexes - isolation and conversion of primary radical coupling products. *Dalton Transactions*, **2020**, 49, 13544-13548	4.3	3
46	Mechanistic Insights for Aniline-Catalyzed Halogenation Reactions. *ChemCatChem*, **2020**, 12, 5369-5373	5.2	1
45	Mechanistic Insights for Iodane Mediated Aromatic Halogenation Reactions. *ChemCatChem*, **2020**, 12, 6186-6190	5.2	1
44	Frustrated Lewis Pair Catalyzed Reduction of Carbon Dioxide Using Hydroboranes: New DFT Mechanistic Insights. *ChemCatChem*, **2020**, 12, 3656-3660	5.2	6
43	Katalytische Difunktionalisierung von nichtaktivierten Alkenen mit reaktionsträgem Hexamethyldisilan durch Neubildung von Silyliumionen. *Angewandte Chemie*, **2019**, 131, 17468-17472	3.6	5
42	1,1-Phosphinoboration of diazomethanes. *Chemical Communications*, **2019**, 55, 12100-12103	5.8	10
41	Folding of unstructured peptoids and formation of hetero-bimetallic peptoid complexes upon side-chain-to-metal coordination. *Chemical Science*, **2019**, 10, 620-632	9.4	18
40	Borane-Catalyzed Hydrogenation of Tertiary Amides Activated by Oxalyl Chloride: DFT Mechanistic Insights. *European Journal of Organic Chemistry*, **2019**, 2019, 4609-4612	3.2	5
39	Hydroboration without a B-H bond: reactions of the borinium cation [(iPrN)B] with alkyne, nitrile, ketone and diazomethane. *Chemical Communications*, **2019**, 55, 5155-5158	5.8	11
38	Activation of H and EtSiH by the Borinium Cation [MesB]: Avenues to Cations [MesB(H)(Mes)BMes] and [HB(H)(Mes)B(Mes)(H)BH]. *Journal of the American Chemical Society*, **2019**, 141, 6180-6184	16.4	23
37	Double Phosphinoboration of CO : A Facile Route to Diphospha-Ureas. *Chemistry - A European Journal*, **2019**, 25, 12063-12067	4.8	12
36	Acylation Reactions of Dibenzo-7-phosphanorbornadiene: DFT Mechanistic Insights. *ChemistryOpen* , **2019**, 8, 807-810	2.3	5
35	Boron Lewis Acid-Catalyzed Regioselective Hydrothiolation of Conjugated Dienes with Thiols. *ACS Catalysis*, **2019**, 9, 11627-11633	13.1	11

34	Single Electron Transfer to Diazomethane–Borane Adducts Prompts C–H Bond Activations. *Angewandte Chemie*, **2019**, 131, 18658-18662	3.6	1
33	Catalytic Difunctionalization of Unactivated Alkenes with Unreactive Hexamethyldisilane through Regeneration of Silylium Ions. *Angewandte Chemie - International Edition*, **2019**, 58, 17307-17311	16.4	18
32	Single Electron Transfer to Diazomethane-Borane Adducts Prompts C-H Bond Activations. *Angewandte Chemie - International Edition*, **2019**, 58, 18487-18491	16.4	12
31	Reduction of Phosphine Oxide by Using Chlorination Reagents and Dihydrogen: DFT Mechanistic Insights. *Chemistry - A European Journal*, **2019**, 25, 4670-4672	4.8	11
30	Styrene Polymerization under Ambient Conditions by using a Transient 1,3,2-Diazaphospholane-2-oxyl Complex. *Chemistry - A European Journal*, **2018**, 24, 6473-6478	4.8	4
29	Alkali Metal Species in the Reversible Activation of H. *Angewandte Chemie - International Edition*, **2018**, 57, 11050-11054	16.4	41
28	Elektrophile Formylierung von Aromaten durch silyliumionvermittelte Aktivierung von Kohlenmonoxid. *Angewandte Chemie*, **2018**, 130, 8433-8437	3.6	11
27	Electrophilic Formylation of Arenes by Silylium Ion Mediated Activation of Carbon Monoxide. *Angewandte Chemie - International Edition*, **2018**, 57, 8301-8305	16.4	28
26	Formation and Reactivity of Transient Phosphanoxyl Manganese Complexes. *Organometallics*, **2018**, 37, 3670-3677	3.8	3
25	Interactions of C-F Bonds with Hydridoboranes: Reduction, Borylation and Friedel-Crafts Alkylation. *Chemistry - A European Journal*, **2018**, 24, 16014-16018	4.8	14
24	Spaltung nicht aktivierter Si-C(sp3)-Bindungen mit Reedschen Carboransäuren: Bildung bekannter und unbekannter Silyliumionen. *Angewandte Chemie*, **2018**, 130, 9317-9320	3.6	10
23	Cleavage of Unactivated Si-C(sp) Bonds with Reed's Carborane Acids: Formation of Known and Unknown Silylium Ions. *Angewandte Chemie - International Edition*, **2018**, 57, 9176-9179	16.4	23
22	Alkali Metal Species in the Reversible Activation of H2. *Angewandte Chemie*, **2018**, 130, 11216-11220	3.6	22
21	Reversible formylborane/SO coupling at a frustrated Lewis pair framework. *Chemical Communications*, **2017**, 53, 633-635	5.8	20
20	Titanocene-Catalyzed Radical Opening of N-Acylated Aziridines. *Angewandte Chemie*, **2017**, 129, 12828-12831	3.6	18
19	Titanocene-Catalyzed Radical Opening of N-Acylated Aziridines. *Angewandte Chemie - International Edition*, **2017**, 56, 12654-12657	16.4	45
18	HYDROPHOBE Challenge: A Joint Experimental and Computational Study on the Host-Guest Binding of Hydrocarbons to Cucurbiturils, Allowing Explicit Evaluation of Guest Hydration Free-Energy Contributions. *Journal of Physical Chemistry B*, **2017**, 121, 11144-11162	3.4	38
17	Chemistry of Thermally Generated Transient Phosphanoxyl Complexes. *Organometallics*, **2017**, 36, 2877-2883	3.8	5

List of Publications

16	Dehydrierende Oxidation von Indolinen und anderen Heterocyclen durch frustrierte Lewis-Paare. *Angewandte Chemie*, **2016**, 128, 12407-12411	3.6	32
15	Copper-Catalyzed Cross-Coupling of Silicon Pronucleophiles with Unactivated Alkyl Electrophiles Coupled with Radical Cyclization. *Journal of the American Chemical Society*, **2016**, 138, 14222-14225	16.4	70
14	Starker Hinweis auf einen Phosphanoxylkomplex: Bildung, Bindung und Reaktivität komplexgebundener P-Analoga von Nitroxiden. *Angewandte Chemie*, **2016**, 128, 14654-14658	3.6	4
13	Synthesis and Rearrangement of P-Nitroxyl-Substituted P(III) and P(V) Phosphanes: A Combined Experimental and Theoretical Case Study. *Chemistry - A European Journal*, **2016**, 22, 10102-10	4.8	11
12	Cycloisomerisierung von 1,5-Eninen über eine 5-endo-dig-Cyclisierungs-Protodeborylierungs-Sequenz mit einem frustrierten Lewis-Paar als Katalysator. *Angewandte Chemie*, **2016**, 128, 4408-4411	3.6	18
11	Frustrated Lewis Pair-Catalyzed Cycloisomerization of 1,5-Enynes via a 5-endo-dig Cyclization/Protodeborylation Sequence. *Angewandte Chemie - International Edition*, **2016**, 55, 4336-9	16.4	58
10	Hydrogenation and Transfer Hydrogenation Promoted by Tethered Ru-S Complexes: From Cooperative Dihydrogen Activation to Hydride Abstraction/Proton Release from Dihydrogen Surrogates. *Chemistry - A European Journal*, **2016**, 22, 10009-16	4.8	29
9	Frustrated Lewis Pair Catalyzed Dehydrogenative Oxidation of Indolines and Other Heterocycles. *Angewandte Chemie - International Edition*, **2016**, 55, 12219-23	16.4	95
8	Strong Evidence of a Phosphanoxyl Complex: Formation, Bonding, and Reactivity of Ligated Phosphorus Analogues of Nitroxides. *Angewandte Chemie - International Edition*, **2016**, 55, 14439-14443	16.4	9
7	Catalytic Ketone Hydrodeoxygenation Mediated by Highly Electrophilic Phosphonium Cations. *Angewandte Chemie - International Edition*, **2015**, 54, 8250-4	16.4	81
6	Catalytic Ketone Hydrodeoxygenation Mediated by Highly Electrophilic Phosphonium Cations. *Angewandte Chemie*, **2015**, 127, 8368-8372	3.6	25
5	B(C6F5)3-katalysierter Diwasserstofftransfer von einem ungesättigten Kohlenwasserstoff auf einen anderen. *Angewandte Chemie*, **2015**, 127, 12326-12330	3.6	28
4	B(C6F5)3 -catalyzed transfer of dihydrogen from one unsaturated hydrocarbon to another. *Angewandte Chemie - International Edition*, **2015**, 54, 12158-62	16.4	60
3	Co-C Bond Dissociation Energies in Cobalamin Derivatives and Dispersion Effects: Anomaly or Just Challenging?. *Journal of Chemical Theory and Computation*, **2015**, 11, 1037-45	6.4	27
2	Selective phosphanyl complex trapping using TEMPO. Synthesis and reactivity of P-functional P-nitroxyl phosphane complexes. *Chemical Communications*, **2014**, 50, 12508-11	5.8	10
1	Toward Reversible Dihydrogen Activation by Borole Compounds. *Journal of Physical Chemistry C*, **2013**, 117, 11989-11993	3.8	10