

Zheng-Wang Qu

List of Publications by Citations

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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	Frustrated Lewis Pair Catalyzed Dehydrogenative Oxidation of Indolines and Other Heterocycles. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 12219-23	16.4	95
68	Catalytic Ketone Hydrodeoxygenation Mediated by Highly Electrophilic Phosponium Cations. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 8250-4	16.4	81
67	Copper-Catalyzed Cross-Coupling of Silicon Pronucleophiles with Unactivated Alkyl Electrophiles Coupled with Radical Cyclization. <i>Journal of the American Chemical Society</i> , 2016 , 138, 14222-14225	16.4	70
66	B(C6F5) ₃ -catalyzed transfer of dihydrogen from one unsaturated hydrocarbon to another. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 12158-62	16.4	60
65	Frustrated Lewis Pair-Catalyzed Cycloisomerization of 1,5-Enynes via a 5-endo-dig Cyclization/Protodeborylation Sequence. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 4336-9	16.4	58
64	Titanocene-Catalyzed Radical Opening of N-Acylated Aziridines. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 12654-12657	16.4	45
63	Alkali Metal Species in the Reversible Activation of H. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 11050-11054	16.4	41
62	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. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 11144-11162	3.4	38
61	Dehydrierende Oxidation von Indolinen und anderen Heterocyclen durch frustrierte Lewis-Paare. <i>Angewandte Chemie</i> , 2016 , 128, 12407-12411	3.6	32
60	Hydrogenation and Transfer Hydrogenation Promoted by Tethered Ru-S Complexes: From Cooperative Dihydrogen Activation to Hydride Abstraction/Proton Release from Dihydrogen Surrogates. <i>Chemistry - A European Journal</i> , 2016 , 22, 10009-16	4.8	29
59	Electrophilic Formylation of Arenes by Silylium Ion Mediated Activation of Carbon Monoxide. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8301-8305	16.4	28
58	B(C6F5) ₃ -katalysierter Diwasserstofftransfer von einem ungesättigten Kohlenwasserstoff auf einen anderen. <i>Angewandte Chemie</i> , 2015 , 127, 12326-12330	3.6	28
57	Co-C Bond Dissociation Energies in Cobalamin Derivatives and Dispersion Effects: Anomaly or Just Challenging?. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 1037-45	6.4	27
56	Catalytic Ketone Hydrodeoxygenation Mediated by Highly Electrophilic Phosponium Cations. <i>Angewandte Chemie</i> , 2015 , 127, 8368-8372	3.6	25
55	Activation of H and EtSiH by the Borinium Cation [MesB]: Avenues to Cations [MesB(H)(EMes)BMes] and [HB(H)(EMes)B(EMes)(H)BH]. <i>Journal of the American Chemical Society</i> , 2019 , 141, 6180-6184	16.4	23
54	Cleavage of Unactivated Si-C(sp ³) Bonds with Reed's Carborane Acids: Formation of Known and Unknown Silylium Ions. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 9176-9179	16.4	23
53	Lithium Dicyclohexylamide in Transition-Metal-Free Fischer-Tropsch Chemistry. <i>Journal of the American Chemical Society</i> , 2021 , 143, 634-638	16.4	22

52	Alkali Metal Species in the Reversible Activation of H ₂ . <i>Angewandte Chemie</i> , 2018 , 130, 11216-11220	3.6	22
51	Reversible formylborane/SO coupling at a frustrated Lewis pair framework. <i>Chemical Communications</i> , 2017 , 53, 633-635	5.8	20
50	Folding of unstructured peptoids and formation of hetero-bimetallic peptoid complexes upon side-chain-to-metal coordination. <i>Chemical Science</i> , 2019 , 10, 620-632	9.4	18
49	Catalytic Difunctionalization of Unactivated Alkenes with Unreactive Hexamethyldisilane through Regeneration of Silylium Ions. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 17307-17311	16.4	18
48	Titanocene-Catalyzed Radical Opening of N-Acylated Aziridines. <i>Angewandte Chemie</i> , 2017 , 129, 12828-12831	12.8	18
47	Cycloisomerisierung von 1,5-Eninen über eine 5-endo-dig-Cyclisierungs-Protodeborylierungs-Sequenz mit einem frustrierten Lewis-Paar als Katalysator. <i>Angewandte Chemie</i> , 2016 , 128, 4408-4411	3.6	18
46	Interactions of C-F Bonds with Hydridoboranes: Reduction, Borylation and Friedel-Crafts Alkylation. <i>Chemistry - A European Journal</i> , 2018 , 24, 16014-16018	4.8	14
45	Double Phosphinoboration of CO : A Facile Route to Diphospha-Ureas. <i>Chemistry - A European Journal</i> , 2019 , 25, 12063-12067	4.8	12
44	Single Electron Transfer to Diazomethane-Borane Adducts Prompts C-H Bond Activations. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18487-18491	16.4	12
43	Hydroboration without a B-H bond: reactions of the borinium cation [(iPrN)B] with alkyne, nitrile, ketone and diazomethane. <i>Chemical Communications</i> , 2019 , 55, 5155-5158	5.8	11
42	Elektrophile Formylierung von Aromaten durch silyliumionvermittelte Aktivierung von Kohlenmonoxid. <i>Angewandte Chemie</i> , 2018 , 130, 8433-8437	3.6	11
41	Boron Lewis Acid-Catalyzed Regioselective Hydrothiolation of Conjugated Dienes with Thiols. <i>ACS Catalysis</i> , 2019 , 9, 11627-11633	13.1	11
40	Addition reactions and diazomethane capture by the intramolecular P-O-B FLP: tBuPOBcat. <i>Dalton Transactions</i> , 2020 , 49, 901-910	4.3	11
39	Synthesis and Rearrangement of P-Nitroxyl-Substituted P(III) and P(V) Phosphanes: A Combined Experimental and Theoretical Case Study. <i>Chemistry - A European Journal</i> , 2016 , 22, 10102-10	4.8	11
38	Reduction of Phosphine Oxide by Using Chlorination Reagents and Dihydrogen: DFT Mechanistic Insights. <i>Chemistry - A European Journal</i> , 2019 , 25, 4670-4672	4.8	11
37	1,1-Phosphinoboration of diazomethanes. <i>Chemical Communications</i> , 2019 , 55, 12100-12103	5.8	10
36	Selective phosphanyl complex trapping using TEMPO. Synthesis and reactivity of P-functional P-nitroxyl phosphane complexes. <i>Chemical Communications</i> , 2014 , 50, 12508-11	5.8	10
35	Toward Reversible Dihydrogen Activation by Borole Compounds. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 11989-11993	3.8	10

34	Spaltung nicht aktivierter Si-C(sp ³)-Bindungen mit Reedschen Carboranen: Bildung bekannter und unbekannter Silyliumionen. <i>Angewandte Chemie</i> , 2018 , 130, 9317-9320	3.6	10
33	Strong Evidence of a Phosphanoxyl Complex: Formation, Bonding, and Reactivity of Ligated Phosphorus Analogues of Nitroxides. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14439-14443	16.4	9
32	HFIP-Assisted Single C-F Bond Activation of Trifluoromethyl Ketones using Visible-Light Photoredox Catalysis. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	8
31	Frustrated Lewis Pair Catalyzed Reduction of Carbon Dioxide Using Hydroboranes: New DFT Mechanistic Insights. <i>ChemCatChem</i> , 2020 , 12, 3656-3660	5.2	6
30	Katalytische Difunktionalisierung von nichtaktivierten Alkenen mit reaktionstragem Hexamethyldisilan durch Neubildung von Silyliumionen. <i>Angewandte Chemie</i> , 2019 , 131, 17468-17472	3.6	5
29	Borane-Catalyzed Hydrogenation of Tertiary Amides Activated by Oxalyl Chloride: DFT Mechanistic Insights. <i>European Journal of Organic Chemistry</i> , 2019 , 2019, 4609-4612	3.2	5
28	Acylation Reactions of Dibenzo-7-phosphanorbornadiene: DFT Mechanistic Insights. <i>ChemistryOpen</i> , 2019 , 8, 807-810	2.3	5
27	Chemistry of Thermally Generated Transient Phosphanoxyl Complexes. <i>Organometallics</i> , 2017 , 36, 2877-2883	3.883	5
26	A case study on the conversion of Li/Cl phosphinidenoid into phosphinidene complexes. <i>Dalton Transactions</i> , 2021 , 50, 739-745	4.3	5
25	Styrene Polymerization under Ambient Conditions by using a Transient 1,3,2-Diazaphospholane-2-oxyl Complex. <i>Chemistry - A European Journal</i> , 2018 , 24, 6473-6478	4.8	4
24	Starker Hinweis auf einen Phosphanoxylkomplex: Bildung, Bindung und Reaktivität komplexgebundener P-Analoga von Nitroxiden. <i>Angewandte Chemie</i> , 2016 , 128, 14654-14658	3.6	4
23	Facile Synthesis of Cyanide and Isocyanides from CO. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 16965-16969	16.4	4
22	Reactions of a Dilithiomethane with CO and N O: An Avenue to an Anionic Ketene and a Hexafunctionalized Benzene. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25281-25285	16.4	4
21	Boron-Catalyzed Hydroarylation of 1,3-Dienes with Arylamines. <i>Organic Letters</i> , 2021 , 23, 8952-8957	6.2	3
20	Formation and properties of phosphaquinomethane tungsten(0) complexes - isolation and conversion of primary radical coupling products. <i>Dalton Transactions</i> , 2020 , 49, 13544-13548	4.3	3
19	The Reactivity of Isomeric Nitrenium Lewis Acids with Phosphines, Carbenes, and Phosphide. <i>Chemistry - A European Journal</i> , 2021 , 27, 2861-2867	4.8	3
18	Reactions of B(o-tolyl) with Boranes: Assembly of the Pentaborane(9), HB[B(o-tolyl)(H)]. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 8532-8536	16.4	3
17	Formation and Reactivity of Transient Phosphanoxyl Manganese Complexes. <i>Organometallics</i> , 2018 , 37, 3670-3677	3.8	3

16	Acid-Catalyzed Rearrangements of 3-Aryloxirane-2-Carboxamides: Novel DFT Mechanistic Insights. <i>ChemistryOpen</i> , 2020 , 9, 743-747	2.3	2
15	Selective Catalytic Frustrated Lewis Pair Hydrogenation of CO in the Presence of Silylhalides. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25771-25775	16.4	2
14	LiAlH ₄ -catalyzed Imine Hydrogenation with Dihydrogen: New DFT Mechanistic Insights. <i>ChemCatChem</i> , 2021 , 13, 3401-3404	5.2	2
13	Facile Synthesis of Cyanide and Isocyanides from CO. <i>Angewandte Chemie</i> , 2021 , 133, 17102-17106	3.6	2
12	A Primary Acyl Phosphine Stabilized by a Phosponium Ylide. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 18547-18551	16.4	2
11	Mechanistic Insights for Dimethyl Sulfoxide Catalyzed Aromatic Chlorination Reactions. <i>ChemCatChem</i> , 2021 , 13, 207-211	5.2	2
10	Mechanistic Insights for Nitromethane Activation into Reactive Nitrogenating Reagents. <i>ChemCatChem</i> , 2021 , 13, 2132-2137	5.2	2
9	Mechanistic Insights for Acid-catalyzed Rearrangement of Quinoxalin-2-one with Diamine and Enamine. <i>ChemCatChem</i> , 2021 , 13, 1503-1508	5.2	2
8	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. <i>Journal of Organic Chemistry</i> , 2021 , 86, 13514-13534	4.2	2
7	Single Electron Transfer to Diazomethane Borane Adducts Prompts C-H Bond Activations. <i>Angewandte Chemie</i> , 2019 , 131, 18658-18662	3.6	1
6	Selective Catalytic Frustrated Lewis Pair Hydrogenation of CO ₂ in the Presence of Silylhalides. <i>Angewandte Chemie</i> , 2021 , 133, 25975	3.6	1
5	Mechanistic Insights for Aniline-Catalyzed Halogenation Reactions. <i>ChemCatChem</i> , 2020 , 12, 5369-5373	5.2	1
4	Mechanistic Insights for Iodane Mediated Aromatic Halogenation Reactions. <i>ChemCatChem</i> , 2020 , 12, 6186-6190	5.2	1
3	A Primary Acyl Phosphine Stabilized by a Phosponium Ylide. <i>Angewandte Chemie</i> , 2021 , 133, 18695-18698	3.6	1
2	Steric Influence on Reactions of Benzyl Potassium Species with CO. <i>Chemistry - an Asian Journal</i> , 2021 , 16, 3640-3644	4.5	1
1	Reactions of B ₂ (o-tolyl) ₄ with Boranes: Assembly of the Pentaborane(9), HB[B(o-tolyl)(H)] ₄ . <i>Angewandte Chemie</i> , 2021 , 133, 8613-8617	3.6	0