Zheng-Kun Yu

List of Publications by Year
in descending order

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96 papers	5,557 citations	94433 37 h-index	82547 72 g-index
101 all docs	101 docs citations	101 times ranked	4360 citing authors

#	Article	IF	Citations
1	Substitution of alcohols by N-nucleophiles via transition metal-catalyzed dehydrogenation. Chemical Society Reviews, 2015, 44, 2305-2329.	38.1	591
2	Transition-metal mediated carbonâ€“sulfur bond activation and transformations. Chemical Society Reviews, 2013, 42, 599-621.	38.1	492
3	Câ€Alkylation of Ketones and Related Compounds by Alcohols: Transitionâ€Metalâ€Catalyzed Dehydrogenation. Angewandte Chemie - International Edition, 2016, 55, 862-875.	13.8	379
4	Transition-metal mediated carbonâ€“sulfur bond activation and transformations: an update. Chemical Society Reviews, 2020, 49, 4307-4359.	38.1	197
5	BrÃ¸nsted Acid Activation Strategy in Transitionâ€Metal Catalyzed Asymmetric Hydrogenation of Nâ€Unprotected Imines, Enamines, and Nâ€Heteroaromatic Compounds. Angewandte Chemie - International Edition, 2012, 51, 6060-6072.	13.8	189
6	Rhodium-Catalyzed Regioselective Câˆ’H Functionalization via Decarbonylation of Acid Chlorides and Câˆ’H Bond Activation under Phosphine-Free Conditions. Journal of the American Chemical Society, 2008, 130, 8136-8137.	13.7	184
7	Palladiumâ€Catalyzed Crossâ€Coupling of Internal Alkenes with Terminal Alkenes to Functionalized 1,3â€Butadienes Using Cï£¿H Bond Activation: Efficient Synthesis of Bicyclic Pyridones. Angewandte Chemie - International Edition, 2010, 49, 5792-5797.	13.8	165
8	Manganese-Catalyzed Î²-Alkylation of Secondary Alcohols with Primary Alcohols under Phosphine-Free Conditions. ACS Catalysis, 2018, 8, 7201-7207.	11.2	150
9	Efficient Rh(I)-Catalyzed Direct Arylation and Alkenylation of Arene Câˆ’H Bonds via Decarbonylation of Benzoic and Cinnamic Anhydrides. Organic Letters, 2009, 11, 1317-1320.	4.6	120
10	Recent advances in transition-metal-catalyzed carbene insertion to Câ€“H bonds. Chemical Society Reviews, 2022, 51, 2759-2852.	38.1	120
11	Direct Alkenylation of Indoles with Î±â€Oxo Ketene Dithioacetals: Efficient Synthesis of Indole Alkaloids Meridianin Derivatives. Angewandte Chemie - International Edition, 2009, 48, 2929-2933.	13.8	104
12	Pyridyl-Supported Pyrazolylâˆ’N-Heterocyclic Carbene Ligands and the Catalytic Activity of Their Palladium Complexes in Suzukiâˆ’Miyaura Reactions. Journal of Organic Chemistry, 2006, 71, 5274-5281.	3.2	91
13	Ruthenium(II) Complexes Bearing a Pyridyl-Supported Pyrazolylâˆ’N-Heterocyclic Carbene (NNC) Ligand and Their Catalytic Activity in the Transfer Hydrogenation of Ketones. Organometallics, 2008, 27, 6025-6028.	2.3	89
14	Exceptionally Efficient Unsymmetrical Ruthenium(II) NNN Complex Catalysts Bearing a Pyridyl-Based Pyrazolylâˆ’Imidazolyl Ligand for Transfer Hydrogenation of Ketones. Organometallics, 2008, 27, 2898-2901.	2.3	86
15	Ruthenium(III)-Catalyzed Î²-Alkylation of Secondary Alcohols with Primary Alcohols. Organometallics, 2016, 35, 1251-1256.	2.3	86
16	Highly Active Ruthenium(II) Complex Catalysts Bearing an Unsymmetrical NNN Ligand in the (Asymmetric) Transfer Hydrogenation of Ketones. Chemistry - A European Journal, 2011, 17, 4737-4741.	3.3	85
17	Construction of Highly Active Ruthenium(II) NNN Complex Catalysts Bearing a Pyridyl-Supported Pyrazolyl-Imidazolyl Ligand for Transfer Hydrogenation of Ketones. Organometallics, 2009, 28, 1855-1862.	2.3	83
18	Ruthenium(II) Pyrazolylâ€“Pyridylâ€“Oxazolinyl Complex Catalysts for the Asymmetric Transfer Hydrogenation of Ketones. Chemistry - A European Journal, 2012, 18, 10843-10846.	3.3	69

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19	Ruthenium(II) Complex Catalysts Bearing a Pyridyl-Based Benzimidazolylâ€“Benzotriazolyl Ligand for Transfer Hydrogenation of Ketones. Organometallics, 2013, 32, 3083-3090.	2.3	68
20	Acceptorless Dehydrogenation of N-Heterocycles and Secondary Alcohols by Ru(II)-NNC Complexes Bearing a Pyrazoyl-indolyl-pyridine Ligand. Organometallics, 2018, 37, 584-591.	2.3	68
21	Regio- and Stereoselective Synthesis of Multisubstituted Olefins and Conjugate Dienes by Using Î±-Oxo Ketene Dithioacetals as the Building Blocks. Organic Letters, 2011, 13, 4272-4275.	4.6	65
22	A Versatile Ruthenium(II)â€“NNC Complex Catalyst for Transfer Hydrogenation of Ketones and Oppenauerâ€Type Oxidation of Alcohols. Chemistry - A European Journal, 2012, 18, 11550-11554.	3.3	65
23	Novel BrÃ¸nsted Acid Catalyzed Three-Component Alkylations of Indoles with N-Phenylselenophthalimide and Styrenes. Organic Letters, 2007, 9, 5263-5266.	4.6	64
24	Copperâ€Catalyzed Trifluoromethylation of Internal Olefinic Cï¿¿H Bonds: Efficient Routes to Trifluoromethylated Tetrasubstituted Olefins and Nâ€Heterocycles. Chemistry - A European Journal, 2014, 20, 3439-3445.	3.3	63
25	Ruthenium Complex Catalysts Supported by a Bis(trifluoromethyl)pyrazolylâ€“Pyridyl-Based NNN Ligand for Transfer Hydrogenation of Ketones. Organometallics, 2014, 33, 974-982.	2.3	63
26	A Highly Active Ruthenium(II) Pyrazolylâ€“Pyridylâ€“Pyrazole Complex Catalyst for Transfer Hydrogenation of Ketones. Organometallics, 2012, 31, 5664-5667.	2.3	61
27	Iron-Catalyzed Oxidative Câ€“H Functionalization of Internal Olefins for the Synthesis of Tetrasubstituted Furans. Organic Letters, 2017, 19, 3287-3290.	4.6	61
28	Room-temperature Ru(II)-catalyzed transfer hydrogenation of ketones and aldehydes in air. Tetrahedron Letters, 2009, 50, 4624-4628.	1.4	57
29	RuCl₃â‹…xâ€‰H₂Oâ€Catalyzed Direct Arylation of Arenes with Aryl Chlorides in the Presence of Triphenylphosphine. Chemistry - A European Journal, 2010, 16, 787-791.	3.3	57
30	Copper-Mediated Intramolecular Oxidative Câ€“H/Câ€“H Cross-Coupling of Î±-Oxo Ketene N,S-Acetals for Indole Synthesis. Journal of Organic Chemistry, 2014, 79, 10553-10560.	3.2	54
31	Rhodium(III)-Catalyzed Annulative Coupling of Sulfoxonium Ylides and Allenoates: An Arene Câ€“H Activation/Cyclopropanation Cascade. Organic Letters, 2019, 21, 9217-9222.	4.6	53
32	Highly Regioselective Câ€“H Alkylation of Alkenes Through an Aryl to Vinyl 1,4-Palladium Migration/Câ€“C Cleavage Cascade. ACS Catalysis, 2019, 9, 11669-11675.	11.2	51
33	Palladium-catalyzed, copper-mediated construction of benzene rings from the reactions of indoles with in situ generated enones. Organic Chemistry Frontiers, 2014, 1, 707-711.	4.5	48
34	Substituent Effect on the Catalytic Activity of Ruthenium(II) Complexes Bearing a Pyridyl-Supported Pyrazolyl-Imidazolyl Ligand for Transfer Hydrogenation of Ketones. Organometallics, 2015, 34, 5278-5284.	2.3	45
35	Copper-Catalyzed Formal Carbene Migratory Insertion into Internal Olefinic Câ•C Bonds with N-Tosylhydrazones To Access Iminofuran and 2(3H)-Furanone Derivatives. Organic Letters, 2017, 19, 3660-3663.	4.6	45
36	Rhodium(<scp>iii</scp>)-catalyzed sp² Câ€“H bond addition to CF₃-substituted unsaturated ketones. Chemical Communications, 2016, 52, 2913-2915.	4.1	44

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37	Copper-Catalyzed Asymmetric Borylation: Construction of a Stereogenic Carbon Center Bearing Both CF₃ and Organoboron Functional Groups. Journal of Organic Chemistry, 2017, 82, 1951-1960.	3.2	41
38	Potassium tertâ€Butoxideâ€Promoted Acceptorless Dehydrogenation of Nâ€Heterocycles. Advanced Synthesis and Catalysis, 2019, 361, 3958-3964.	4.3	40
39	Iron-Promoted Difunctionalization of Alkenes by Phenylselenylation/1,2-Aryl Migration. Organic Letters, 2017, 19, 5450-5453.	4.6	39
40	Ironâ€Mediated Oxidative Câ€“H Alkylation of S,Sâ€Functionalized Internal Olefins via C(sp²)â€“H/C(sp³)â€“H Crossâ€Coupling. Advanced Synthesis and Catalysis, 2017, 359, 2981-2998.	4.3	39
41	Copper-Catalyzed Radical Câ€“C Bond Cleavage and [4+1] Annulation Cascade of Cycloketone Oxime Esters with Enaminothiones. Journal of Organic Chemistry, 2019, 84, 2178-2190.	3.2	38
42	A Versatile Ru(II)-NNP Complex Catalyst for the Synthesis of Multisubstituted Pyrroles and Pyridines. Organometallics, 2017, 36, 4936-4942.	2.3	37
43	Quantification of Short-Chain Chlorinated Paraffins by Deuterodechlorination Combined with Gas Chromatographyâ€“Mass Spectrometry. Environmental Science & Technology, 2016, 50, 3746-3753.	10.0	36
44	Copper-mediated intramolecular oxidative Câ€“H/Nâ€“H cross-coupling of Î±-alkenoyl ketene N,S-acetals to synthesize pyrrolone derivatives. Chemical Communications, 2014, 50, 12479-12481.	4.1	35
45	Exceptionally Active Assembled Dinuclear Ruthenium(II)-NNN Complex Catalysts for Transfer Hydrogenation of Ketones. Organometallics, 2017, 36, 2914-2921.	2.3	35
46	Dimeric Ruthenium(II)-NNN Complex Catalysts Bearing a Pyrazolyl-Pyridylamino-Pyridine Ligand for Transfer Hydrogenation of Ketones and Acceptorless Dehydrogenation of Alcohols. Organometallics, 2017, 36, 3638-3644.	2.3	34
47	Photoredox-Catalyzed Câ€“H Arylation of Internal Alkenes to Tetrasubstituted Alkenes: Synthesis of Tamoxifen. Organic Letters, 2017, 19, 6248-6251.	4.6	32
48	Diruthenium(<scp>ii</scp>)â€“NNN pincer complex catalysts for transfer hydrogenation of ketones. Dalton Transactions, 2016, 45, 17843-17849.	3.3	31
49	Selenium-Catalyzed Carbonylation of Nitroarenes to Symmetrical 1,3-Diarylureas under Atmospheric Pressure. Advanced Synthesis and Catalysis, 2004, 346, 929-932.	4.3	30
50	Iron-catalyzed alkylation of Î±-oxo ketene dithioacetals. Chemical Communications, 2014, 50, 6337-6339.	4.1	30
51	Short-chain chlorinated paraffins (SCCPs) disrupt hepatic fatty acid metabolism in liver of male rat via interacting with peroxisome proliferator-activated receptor Î± (PPARÎ±). Ecotoxicology and Environmental Safety, 2019, 181, 164-171.	6.0	30
52	Copper(II)-Catalyzed Câ€“H Nitrogenation/Annulation Cascade of Ketene N,S-Acetals with Aryldiazonium Salts: A Direct Access to N²-Substituted Triazole and Triazine Derivatives. Organic Letters, 2020, 22, 310-315.	4.6	30
53	Rhodium(I)â€Catalyzed Arylation of Î²â€Chloro Ketones and Related Derivatives through Domino Dehydrochlorination/ Conjugate Addition. Advanced Synthesis and Catalysis, 2013, 355, 1874-1880.	4.3	26
54	Photoinduced, Copper-Catalyzed Three-Component Annulation of gem-Dialkylthio Enynes. Organic Letters, 2020, 22, 5202-5206.	4.6	26

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55	Copper-promoted direct Câ€“H alkoxylation of S,S-functionalized internal olefins with alcohols. Organic and Biomolecular Chemistry, 2017, 15, 5535-5540.	2.8	25
56	Transitionâ€Metalâ€Promoted Direct Câ^'H Cyanoalkylation and Cyanoalkoxylation of Internal Alkenes via Radical Câ^'C Bond Cleavage of Cycloketone Oxime Esters. Advanced Synthesis and Catalysis, 2019, 361, 3787-3799.	4.3	25
57	Palladium-Catalyzed Câ€“S Bond Cleavage with Allenoates: Synthesis of Tetrasubstituted 2-Alkenylfuran Derivatives. Organic Letters, 2018, 20, 6007-6011.	4.6	24
58	Palladiumâ€Catalyzed Oxidative Heckâ€Type Allylation of Î²,Î²â€Disubstituted Enones with Allyl Carbonates. Advanced Synthesis and Catalysis, 2014, 356, 2097-2102.	4.3	23
59	Palladiumâ€Catalyzed Oxidative Crossâ€Coupling of Î±â€Cyanoketene Dithioacetals with Olefins. Chemistry - A European Journal, 2015, 21, 14085-14094.	3.3	23
60	NHTs Effect on the Enantioselectivity of Ru(II) Complex Catalysts Bearing a Chiral Bis(NHTs)-Substituted Imidazolyl-Oxazolinyl-Pyridine Ligand for Asymmetric Transfer Hydrogenation of Ketones. Organometallics, 2017, 36, 4136-4144.	2.3	23
61	Amide Bond Formation Assisted by Vicinal Alkylthio Migration in Enaminones: Metal- and CO-Free Synthesis of Î±,Î²-Unsaturated Amides. Journal of Organic Chemistry, 2018, 83, 5731-5750.	3.2	23
62	Rhodium(III)-Catalyzed Annulation of Acetophenone O-Acetyl Oximes with Allenoates through Arene Câ€“H Activation: An Access to Isoquinolines. Journal of Organic Chemistry, 2019, 84, 2083-2092.	3.2	23
63	N-Arylamides from Selenium-Catalyzed Reactions of Nitroaromatics and Amides in the Presence of Carbon Monoxide and Mixed Organic Bases. Advanced Synthesis and Catalysis, 2004, 346, 1267-1270.	4.3	21
64	BrÃ¸nsted Acid Catalyzed PhSe Transfer versus Radical Aryl Transfer: Linear Codimerization of Styrenes and Internal Olefins. Organic Letters, 2015, 17, 868-871.	4.6	19
65	Metalâ€Free Cspâ^'Csp and Cspâ^'Csp³ Bond Cleavages of N,Sâ€Enynes toward Thiopheneâ€Fused Nâ€Heterocycles. Advanced Synthesis and Catalysis, 2018, 360, 3097-3108.	4.3	19
66	ZnCl₂â€Catalyzed [4+1] Annulation of Alkylthioâ€Substituted Enaminones and Enaminothiones with Sulfur Ylides. Chemistry - A European Journal, 2020, 26, 4941-4946.	3.3	19
67	Ru(II) pyridyl-based NNN complex catalysts for (asymmetric) transfer hydrogenation of ketones at room temperature. Chinese Journal of Catalysis, 2013, 34, 1373-1377.	14.0	16
68	Copper-Catalyzed Annulative Coupling of S,S-Disubstituted Enones with Diazo Compounds to Access Highly Functionalized Thiophene Derivatives. Journal of Organic Chemistry, 2020, 85, 1044-1053.	3.2	16
69	Palladium-Catalyzed Fluoroalkylation via C(sp³)â€“S Bond Cleavage of Vinylsulfonium Salts. Organic Letters, 2021, 23, 6110-6114.	4.6	16
70	Palladium-catalyzed oxidative annulation of in situ generated enones to pyrroles: a concise route to functionalized indoles. Organic Chemistry Frontiers, 2015, 2, 1361-1365.	4.5	15
71	Copperâ€Catalyzed Ringâ€Expansion/Thiolactonization via Azidation of Internal Olefinic Câ€“H Bond under Mild Conditions. Advanced Synthesis and Catalysis, 2016, 358, 3450-3457.	4.3	15
72	[4+1] Cycloaddition of Enaminothiones and Aldehyde Nâ€Tosylhydrazones Toward 3â€Aminothiophenes. Advanced Synthesis and Catalysis, 2018, 360, 4381-4392.	4.3	15

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73	A Simple Aliphatic Diamine Auxiliary for Palladiumâ€Catalyzed Arylation of Unactivated Î²â€(sp³)â€H Bonds. Advanced Synthesis and Catalysis, 2018, 360, 4571-4584.	4.3	14
74	Highly Efficient Route to Diselenides from the Reactions of Imines and Selenium in the Presence of Carbon Monoxide and Water. Advanced Synthesis and Catalysis, 2005, 347, 877-882.	4.3	13
75	Exposure to short-chain chlorinated paraffins inhibited PPARÎ±-mediated fatty acid oxidation and stimulated aerobic glycolysis in vitro in human cells. Science of the Total Environment, 2021, 772, 144957.	8.0	12
76	Catalytic behaviors and gas permeation properties of palladium-containing phenophthalein poly(ether) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.6	11
77	Proazaphosphatrane P(RNCH2CH2)3N (R=Me,i-Pr)-Catalyzed Isomerization of Allylaromatics, Allyl Phenyl Sulfide, Allyl Phenyl Sulfone, andbis-Allylmethylene Double Bond-Containing Compounds. Advanced Synthesis and Catalysis, 2006, 348, 111-117.	4.3	11
78	Tunable BrÃ¸nsted Acidityâ€Dependent Alkylation and Alkenylation of Indoles. Advanced Synthesis and Catalysis, 2014, 356, 3871-3880.	4.3	11
79	BrÃ¸nsted Acidâ€Promoted Cascade Alkylation/Cyclization of Pyrroles with N,Nâ€Dimethylaminomethyleneglutaconic Acid Dinitrile: A Concise Route to Cyclopenta[b]pyrroles. Advanced Synthesis and Catalysis, 2015, 357, 3353-3358.	4.3	11
80	BrÃ¸nsted Acidâ€Mediated Annulation of Î±â€Oxo Ketene Dithioacetals with Pyrroles: Efficient Synthesis of Structurally Diverse Cyclopenta[b]pyrroles. Chemistry - A European Journal, 2015, 21, 9323-9327.	3.3	11
81	Î±,Î²-Unsaturated N-Acylindoles: An Alternative Class of Michael Acceptors and Their Application in Asymmetric Borylation. Journal of Organic Chemistry, 2018, 83, 7981-7993.	3.2	11
82	REDUCTIVE DESULFURIZATION OF ORGANOSULFUR COMPOUNDS WITH SODIUM IN LIQUID AMMONIA. Phosphorus, Sulfur and Silicon and the Related Elements, 1998, 133, 79-82.	1.6	10
83	Copperâ€Catalyzed Tandem Asymmetric Borylation of Î²â€Chloroalkyl Aryl Ketones and Related Compounds. ChemCatChem, 2015, 7, 660-665.	3.7	10
84	PIDAâ€Mediated Formal Olefinic C=C Bond Cleavage of Î±â€Oxoâ€Ketene N,Nâ€Acetals toward Substituted Oxazolines. Chemistry - A European Journal, 2018, 24, 14368-14372.	3.3	9
85	Assembled Multinuclear Ruthenium(II)â€“NNNN Complexes: Synthesis, Catalytic Properties, and DFT Calculations. Organometallics, 2020, 39, 93-104.	2.3	9
86	Copper(II)-Mediated Intramolecular Cyclopropanation of Ketene N,X-Acetals (X = S, O, N) under Mild Conditions. Journal of Organic Chemistry, 2020, 85, 4373-4385.	3.2	8
87	Ruthenium-catalysed chemoselective alkylation of nitroarenes with alkanols. Organic Chemistry Frontiers, 2021, 8, 6710-6719.	4.5	8
88	Biomimetic in situ Regeneration of Cofactors NAD(P)+ and NAD(P)H Models Hantzsch Esters and Dihydrophenanthridine. Synlett, 2012, 23, 1300-1304.	1.8	7
89	Cooperative Nâ€“H and CH₂ Skeleton Effects on the Catalytic Activities of Bimetallic Ru(II)â€“NNN Complexes: Experimental and Theoretical Study. Organometallics, 2017, 36, 4268-4277.	2.3	7
90	Cobalt-Catalyzed Chemoselective Transfer Hydrogenative Cyclization Cascade of Enone-Tethered Aldehydes. Organic Letters, 2021, 23, 3873-3878.	4.6	7

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91	Copper-Catalyzed [4 + 1] Annulation of Enaminothiones with Indoline-Based Diazo Compounds. Journal of Organic Chemistry, 2022, 87, 4424-4437.	3.2	6
92	Visible-Light-Driven, Palladium-Catalyzed Heck Reaction of Internal Vinyl Bromides with Styrenes. Journal of Organic Chemistry, 2021, 86, 8402-8413.	3.2	4
93	Ru(dppbsa)-catalyzed hydrodeoxygenation and reductive etherification of ketones and aldehydes. Organic Chemistry Frontiers, 2022, 9, 1943-1954.	4.5	4
94	Structures and relationship between the119SnNMR chemical shifts and pKa of their parent acids in organotin (I?) carboxylates. Heteroatom Chemistry, 1996, 7, 3-8.	0.7	2
95	Catalytic Dimerization of Allyl Phenyl Sulfone in the Presence of a Proazaphosphatrane Catalyst. Advanced Synthesis and Catalysis, 2004, 346, 539-541.	4.3	2
96	The reaction of diphenyltin (IV) or triphenyltin (IV) chloride with 3,4,5-trimethoxybenzoyl salicylahydrazone. The crystal structure of Ph2[(MeO)3C6H2C(O)N2CHC6H4O]Sn. Heteroatom Chemistry, 1995, 6, 513-517.	0.7	1