Zhengkai Chen

List of Publications by Year
in descending order

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70 papers	3,676 citations	172457 29 h-index	133252 59 g-index
73 all docs	73 docs citations	73 times ranked	3283 citing authors

#	Article	IF	Citations
1	Transition metal-catalyzed Câ€“H bond functionalizations by the use of diverse directing groups. Organic Chemistry Frontiers, 2015, 2, 1107-1295.	4.5	1,379
2	Copperâ€Mediated Synthesis of 1,2,3â€Triazoles from Nâ€Tosylhydrazones and Anilines. Angewandte Chemie - International Edition, 2013, 52, 13324-13328.	13.8	145
3	K2CO3 promoted direct sulfenylation of indoles: a facile approach towards 3-sulfenylindoles. Green Chemistry, 2013, 15, 2096.	9.0	132
4	Nickel-Catalyzed Direct Amination of Arenes with Alkylamines. Organic Letters, 2015, 17, 2482-2485.	4.6	129
5	Carbonylative synthesis of heterocycles involving diverse CO surrogates. Chemical Communications, 2020, 56, 6016-6030.	4.1	93
6	Visible-light mediated 3-component synthesis of sulfonylated coumarins from sulfur dioxide. Green Chemistry, 2018, 20, 3059-3070.	9.0	89
7	Recent Advances in Multicomponent Synthesis of 1,4,5â€Trisubstituted 1,2,3â€Triazoles. Advanced Synthesis and Catalysis, 2017, 359, 202-224.	4.3	84
8	I₂-Catalyzed Oxidative Coupling Reactions of Hydrazones and Amines and the Application in the Synthesis of 1,3,5-Trisubstituted 1,2,4-Triazoles. Organic Letters, 2016, 18, 1334-1337.	4.6	74
9	Metalâ€Free Cï¿½Nâ€and Nï¿½Nâ€Bond Formation: Synthesis of 1,2,3â€Triazoles from Ketones, Nâ€Tosylhydrazines, and Amines in One Pot. Chemistry - A European Journal, 2014, 20, 17635-17639.	3.3	63
10	Efficient Synthesis of 1,2,3â€Triazoles by Copperâ€Mediated Cï¿½N and Nï¿½N Bond Formation Starting From Nâ€Tosylhydrazones and Amines. Chemistry - A European Journal, 2014, 20, 13692-13697.	3.3	60
11	1-Hydroxybenzotriazole-Assisted, N-Heterocyclic Carbene Catalyzed Î²-Functionalization of Saturated Carboxylic Esters: Access to Spirooxindole Lactones. Journal of Organic Chemistry, 2016, 81, 11454-11460.	3.2	55
12	Synthesis of Functionalized Indenones via Rh-Catalyzed Câ€“H Activation Cascade Reaction. Organic Letters, 2017, 19, 2588-2591.	4.6	54
13	Synthesis of Benzo-Fused Cyclic Compounds via Intramolecular Cyclization of Aryltriazenes. Synlett, 2016, 27, 1318-1334.	1.8	52
14	Cobalt-catalyzed synthesis of quinolines from the redox-neutral annulation of anilides and alkynes. Organic Chemistry Frontiers, 2016, 3, 678-682.	4.5	50
15	Nickel-Catalyzed Stereoselective Alkenylation of C(sp³)â€“H Bonds with Terminal Alkynes. Organic Letters, 2017, 19, 850-853.	4.6	49
16	FeCl₃-Mediated Synthesis of 2-(Trifluoromethyl)quinazolin-4(3H)-ones from Isatins and Trifluoroacetimidoyl Chlorides. Organic Letters, 2020, 22, 5567-5571.	4.6	47
17	Palladium-Catalyzed Four-Component Carbonylative Cyclization Reaction of Trifluoroacetimidoyl Chlorides, Propargyl Amines, and Diaryliodonium Salts: Access to Trifluoromethyl-Containing Trisubstituted Imidazoles. Organic Letters, 2020, 22, 1980-1984.	4.6	46
18	Redox-Neutral Rhodium(III)-Catalyzed Annulation of Arylhydrazines with Sulfoxonium Ylides To Synthesize 2-Arylindoles. Journal of Organic Chemistry, 2019, 84, 13013-13021.	3.2	45

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19	Trifluoroacetimidoyl halides: a potent synthetic origin. Organic Chemistry Frontiers, 2020, 7, 223-254.	4.5	44
20	Metalâ€Free Synthesis of 5â€Trifluoromethylâ€1,2,4â€Triazoles from Iodineâ€Mediated Annulation of Trifluoroacetimidoyl Chlorides and Hydrazones. Advanced Synthesis and Catalysis, 2019, 361, 4949-4954.	4.3	42
21	Synthesis of Multiâ€substituted Dihydropyrazoles by Copperâ€Mediated [4+1] Cycloaddition Reaction of Nâ€Sulfonylhydrazones and Sulfoxonium Ylides. Advanced Synthesis and Catalysis, 2019, 361, 3124-3136.	4.3	42
22	Direct orthoâ€Acyloxylation of Arenes and Alkenes by Cobalt Catalysis. Advanced Synthesis and Catalysis, 2018, 360, 519-532.	4.3	40
23	Cobalt-Catalyzed Aerobic Oxidative Câ€“H/Câ€“H Cross-Coupling of Unactivated Arenes for the Synthesis of Biaryls. Organic Letters, 2018, 20, 5845-5848.	4.6	38
24	Palladium-catalyzed three-component carbonylative synthesis of 2-(trifluoromethyl)quinazolin-4(3H)-ones from trifluoroacetimidoyl chlorides and amines. Organic Chemistry Frontiers, 2020, 7, 2499-2504.	4.5	35
25	An Approach to Fiveâ€Membered Lactams from Aliphatic Amides and Terminal Acetylenes by Nickel Catalysis. Advanced Synthesis and Catalysis, 2016, 358, 1778-1793.	4.3	33
26	Catalyst-Controlled Chemodivergent Modification of Indoles with 2-Furylcarbinols: Piancatelli Reaction vs Cross-Dehydrative Coupling Reaction. Journal of Organic Chemistry, 2017, 82, 3561-3570.	3.2	33
27	Base-mediated diastereoselective [4 + 3] annulation of in situ generated ortho-quinone methides with C,N-cyclic azomethine imines. Organic and Biomolecular Chemistry, 2017, 15, 7513-7517.	2.8	33
28	1,2-Gold Carbene Transfer Empowers Regioselective Synthesis of Polysubstituted Furans. Organic Letters, 2018, 20, 3096-3100.	4.6	33
29	Palladium-Catalyzed Cascade Carbonylative Synthesis of 1,2,4-Triazol-3-ones from Hydrazonoyl Chlorides and NaN₃. Organic Letters, 2021, 23, 974-978.	4.6	30
30	A Convenient FeCl₃â€Mediated Synthesis of 5â€Trifluoromethylâ€1,2,4â€triazoles from Trifluoroacetimidoyl Chlorides and Hydrazides. Advanced Synthesis and Catalysis, 2020, 362, 5130-5134.	4.3	28
31	Recent Developments in Azideâ€Free Synthesis of 1,2,3â€Triazoles. Chinese Journal of Chemistry, 2017, 35, 1797-1807.	4.9	25
32	Visibleâ€Lightâ€Induced 3â€Component Synthesis of Sulfonylated Oxindoles by Fixation of Sulfur Dioxide. European Journal of Organic Chemistry, 2018, 2018, 5725-5734.	2.4	25
33	Synthesis of 5-trifluoromethyl-1,2,3-triazoles via base-mediated cascade annulation of diazo compounds with trifluoroacetimidoyl chlorides. Organic Chemistry Frontiers, 2021, 8, 3440-3445.	4.5	24
34	Synthesis of Aryl Trimethylstannane via BF₃Â·OEt₂-Mediated Cross-Coupling of Hexaalkyl Distannane Reagent with Aryl Triazene at Room Temperature. Journal of Organic Chemistry, 2019, 84, 463-471.	3.2	23
35	Palladiumâ€Catalyzed Carbonylative Synthesis of 2â€(Trifluoromethyl)quinazolinâ€4(3H)â€ones from Trifluoroacetimidoyl Chlorides and Nitro Compounds. Advanced Synthesis and Catalysis, 2021, 363, 1417-1426.	4.3	22
36	Solvent-Controlled, Tunable Hydrosulfonylation of 3-Cyclopropylideneprop-2-en-1-ones. Organic Letters, 2016, 18, 4292-4295.	4.6	21

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37	Silver-Mediated [3 + 2] Cycloaddition of Azomethine Ylides with Trifluoroacetimidoyl Chlorides for the Synthesis of 5-(Trifluoromethyl)imidazoles. Journal of Organic Chemistry, 2021, 86, 4361-4370.	3.2	21
38	Metal-Free Mediated C-3 Methylsulfanylation of Imidazo[1,2-a]-pyridines with Dimethyl Sulfoxide as a Methylsulfanylating Agent. Synlett, 2017, 28, 1795-1800.	1.8	20
39	A modular approach to highly functionalized 3-sulfonylfurans via conjugate addition of 3-cyclopropylideneprop-2-en-1-ones with sodium sulfinates and sequential 5-endo-trig iodocyclization. Organic Chemistry Frontiers, 2017, 4, 1824-1828.	4.5	20
40	Synthesis of 3H-1,2,4-Triazol-3-ones via NiCl₂-Promoted Cascade Annulation of Hydrazonoyl Chlorides and Sodium Cyanate. Organic Letters, 2021, 23, 2359-2363.	4.6	20
41	Copper-mediated [3 + 2] cycloaddition of trifluoroacetimidoyl chlorides and N-isocyanoiminotriphenylphosphorane for the synthesis of 3-trifluoromethyl-1,2,4-triazoles. Organic Chemistry Frontiers, 2021, 8, 5040-5044.	4.5	20
42	Metal-free oxidative cyclization of trifluoroacetimidohydrazides with methylhetarenes: a facile access to 3-hetaryl-5-trifluoromethyl-1,2,4-triazoles. Organic Chemistry Frontiers, 2021, 8, 4490-4495.	4.5	20
43	From â€˜Giftâ€™ to gift: producing organic solvents from CO₂. Green Chemistry, 2020, 22, 8169-8182.	9.0	19
44	TFBen (Benzeneâ€1,3,5â€triyl triformate): A Powerful and Versatile CO Surrogate. Chemical Record, 2022, 22, .	5.8	19
45	Synthesis of 5â€Trifluoromethylâ€1,2,4â€Triazoles via Metalâ€Free Annulation of Trifluoroacetimidohydrazides and Methyl Ketones. Advanced Synthesis and Catalysis, 2021, 363, 3060-3069.	4.3	17
46	Controllable access to trifluoromethyl-containing indoles and indolines: palladium-catalyzed regioselective functionalization of unactivated alkenes with trifluoroacetimidoyl chlorides. Chemical Science, 2022, 13, 3526-3532.	7.4	17
47	Lewis Acid Catalyzed Regiospecific Cross-Dehydrative Coupling Reaction of 2-Furylcarbinols with Î²-Keto Amides or 4-Hydroxycoumarins: A Route to Furyl Enols. Journal of Organic Chemistry, 2016, 81, 5228-5235.	3.2	16
48	Palladium-catalyzed carbonylative synthesis of 5-trifluoromethyl-1,2,4-triazoles from trifluoroacetimidohydrazides and aryl iodides. Organic Chemistry Frontiers, 0, , .	4.5	16
49	Copper-Catalyzed Double Câ€“N Bond Formation for the Synthesis of Diverse Benzimidazoles from N-Alkyl-2-iodoaniline and Sodium Azide. Synlett, 2017, 28, 504-508.	1.8	15
50	Copperâ€Catalyzed Decarbonylative Cyclization of Isatins and Trifluoroacetimidohydrazides for the Synthesis of 2â€(5â€Trifluoromethylâ€1,2,4â€triazolâ€3â€yl)anilines. Advanced Synthesis and Catalysis, 2022, 364, 1044-1049.	4.3	15
51	Elemental Sulfur and Dimethyl Sulfoxideâ€Promoted Oxidative Cyclization of Trifluoroacetimidohydrazides with Methylhetarenes for the Synthesis of 3â€Hetaryl â€5â€trifluoromethylâ€1,2,4â€triazoles. Chinese Journal of Chemistry, 2021, 39, 3443.	4.9	14
52	Transition-Metal-Free Arylation and Alkylation of Diarylmethyl p-Tolyl Sulfones with Zinc Reagents. Journal of Organic Chemistry, 2018, 83, 10602-10612.	3.2	13
53	Rhodiumâ€Catalyzed Cascade Annulation of Benzimidates and Nitroalkenes for the Synthesis of Difunctionalized Indenes. Advanced Synthesis and Catalysis, 2019, 361, 4140-4146.	4.3	13
54	Base-mediated [3+2] annulation of trifluoroacetimidoyl chlorides and isocyanides: An improved approach for regioselective synthesis of 5-trifluoromethyl-imidazoles. Tetrahedron, 2020, 76, 131168.	1.9	11

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55	Oxidative Cyclization of Trifluoroacetimidohydrazides with Dâ€Glucose for the Metalâ€Free Synthesis of 3â€Trifluoromethylâ€1,2,4â€Triazoles. Advanced Synthesis and Catalysis, 2021, 363, 4982.	4.3	11
56	Oxidantâ€Mediated Nitrogenation and Recyclization of Imidazo[1,2â€a]pyridines with Sodium Azide: Synthesis of 4Hâ€Pyrido[1,2â€a][1,3,5]triazinâ€4â€ones. Advanced Synthesis and Catalysis, 2018, 360, 881-886.	4.3	10
57	Palladiumâ€Catalyzed Cascade Carbonylative Cyclization Reaction of Trifluoroacetimidoyl Chlorides and 2â€Iodoanilines: Toward 2â€(Trifluoromethyl)quinazolinâ€4(3H)â€ones Synthesis. ChemistrySelect, 2020, 5, 11072-11076.	1.5	10
58	The cascade coupling/iodoaminocyclization reaction of trifluoroacetimidoyl chlorides and allylamines: metal-free access to 2-trifluoromethyl-imidazolines. Organic and Biomolecular Chemistry, 2021, 19, 6115-6119.	2.8	10
59	Catalyst-Free Regioselective Nazarov Cyclization of Aryl Allenyl Ketones. Synthesis, 2018, 50, 349-360.	2.3	9
60	Nickel-catalyzed dual C(sp²)â€“H activation of arenes: a new route to diaryl ethers. Organic Chemistry Frontiers, 2020, 7, 2224-2229.	4.5	9
61	Transition metal-free tandem pyridinylâ€“allylâ€“allyl cross-coupling reaction. Synthetic Communications, 2017, 47, 1668-1675.	2.1	8
62	Strain-Promoted Nitration of 3-Cyclopropylideneprop-2-en-1-ones and the Application for the Synthesis of Pyrroles. Journal of Organic Chemistry, 2017, 82, 12224-12237.	3.2	8
63	Metalâ€Free Photochemical Câ^'Se Crossâ€Coupling of Aryl Halides with Diselenides. Advanced Synthesis and Catalysis, 2022, 364, 1607-1612.	4.3	8
64	BF₃Â·OEt₂â€Promoted Tandem Oâ€Arylation/Hydroxylation: Efficient Synthesis of 2â€Hydroxyflavanones from Triazenylarylâ€Substituted Diketones. European Journal of Organic Chemistry, 2013, 2013, 7411-7420.	2.4	5
65	Nickel-Catalyzed Regioselective Reductive Cross-Coupling of Aryl Halides with Polysubstituted Allyl Halides in the Presence of Imidazolium Salts. Synlett, 2015, 26, 2784-2788.	1.8	5
66	Iodine-Mediated Multicomponent Synthesis of 3-Sulfenylimidazo[1,2-a]pyridines from 2-Aminopyridines, Ketones, and Sulfonyl Hydrazides. Synlett, 2019, 30, 625-629.	1.8	5
67	Metal-free synthesis of 3-trifluoromethyl-1,2,4-triazoles via oxidative cyclization of trifluoroacetimidohydrazides with N,N-dimethylformamide as carbon synthons. Green Synthesis and Catalysis, 2022, 3, 385-388.	6.8	5
68	Recent Advances in Copperâ€Catalyzed Carboxylation Reactions with CO₂. Asian Journal of Organic Chemistry, 2022, 11, .	2.7	5
69	Palladium-catalyzed norbornene-mediated dehydrogenative annulation of 3-iodochromones with trifluoroacetimidoyl chlorides for the construction of trifluoromethyl-substituted chromeno[2,3-c]quinolin-12-ones. Molecular Catalysis, 2022, 524, 112320.	2.0	3
70	Metal-free Synthesis of 5-Trifluoromethyl-1,2,4-triazoles via elemental sulfur promoted oxidative cyclization of trifluoroacetimidohydrazides with benzylic and aliphatic amines. Molecular Catalysis, 2022, 524, 112336.	2.0	2