

# Fu-Min Zhang

## List of Publications by Year in descending order

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71  
papers

2,752  
citations

201674

27  
h-index

189892

50  
g-index

75  
all docs

75  
docs citations

75  
times ranked

2368  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Sp <sup>3</sup> -C-H activation and functionalization of alcohol and ether. <i>Chemical Society Reviews</i> , 2011, 40, 1937.	38.1	446
2	Organocatalytic Asymmetric Vinylogous $\beta$ -Ketol Rearrangement: Enantioselective Construction of Chiral All-Carbon Quaternary Stereocenters in Spirocyclic Diketones via Semipinacol-Type 1,2-Carbon Migration. <i>Journal of the American Chemical Society</i> , 2009, 131, 14626-14627.	13.7	171
3	Organocatalytic Asymmetric Halogenation/Semipinacol Rearrangement: Highly Efficient Synthesis of Chiral $\beta$ -Oxa-Quaternary $\beta$ -Haloketones. <i>Journal of the American Chemical Society</i> , 2011, 133, 8818-8821.	13.7	162
4	Recent applications of the 1,2-carbon atom migration strategy in complex natural product total synthesis. <i>Chemical Society Reviews</i> , 2017, 46, 2272-2305.	38.1	139
5	Enantioselective bromination/semipinacol rearrangement for the synthesis of $\beta$ -bromoketones containing an all- $\beta$ -carbon quaternary center. <i>Chemical Science</i> , 2011, 2, 1839.	7.4	103
6	Organo-Cation Catalyzed Asymmetric Homo/Heterodialkylation of Bisoxindoles: Construction of Vicinal All-Carbon Quaternary Stereocenters and Total Synthesis of ( $\beta$ )-Chimonanthidine. <i>Journal of the American Chemical Society</i> , 2018, 140, 10099-10103.	13.7	86
7	Organocatalytic Asymmetric Tandem Nazarov Cyclization/Semipinacol Rearrangement: Rapid Construction of Chiral Spiro[4.4]nonane-1,6-diones. <i>Journal of the American Chemical Society</i> , 2015, 137, 8344-8347.	13.7	85
8	Total Synthesis of ( $\beta$ )-Alopecuridine and Its Biomimetic Transformation into ( $\beta$ )-Sieboldine...A. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3916-3919.	13.8	81
9	Recent progress in the isolation, bioactivity, biosynthesis, and total synthesis of natural spiroketals. <i>Natural Product Reports</i> , 2018, 35, 75-104.	10.3	78
10	Enantioselective synthesis of cis-hydrobenzofurans bearing all-carbon quaternary stereocenters and application to total synthesis of ( $\beta$ )-morphine. <i>Nature Communications</i> , 2019, 10, 2507.	12.8	55
11	Copper-Assisted Direct Nitration of Cyclic Ketones with Ceric Ammonium Nitrate for the Synthesis of Tertiary $\beta$ -Nitro- $\beta$ -substituted Scaffolds. <i>Organic Letters</i> , 2017, 19, 1124-1127.	4.6	52
12	Total Syntheses of the Tetracyclic Cyclopiane Diterpenes Conidiogenone, Conidiogenol, and Conidiogenone...B. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4456-4460.	13.8	50
13	Tandem Semipinacol-Type 1,2-Carbon Migration/Aldol Reaction toward the Construction of [5-6-7] All-Carbon Tricyclic Core of Calyciphylline A-Type Alkaloids. <i>Organic Letters</i> , 2012, 14, 5114-5117.	4.6	49
14	Construction of the [6,5,7,5] Tetracyclic Core of Calyciphylline A Type Alkaloids via a Tandem Semipinacol Rearrangement/Nicholas Reaction. <i>Organic Letters</i> , 2017, 19, 4648-4651.	4.6	49
15	Atroposelective Synthesis of Axially Chiral 3-Arylindoles by Copper-Catalyzed Asymmetric Cross-Coupling of Indoles with Quinones and Naphthoquinones. <i>Organic Letters</i> , 2020, 22, 4995-5000.	4.6	49
16	Recent development and applications of semipinacol rearrangement reactions. <i>Chemical Science</i> , 2021, 12, 9262-9274.	7.4	46
17	Recent advances of Ritter reaction and its synthetic applications. <i>Organic Chemistry Frontiers</i> , 2021, 8, 4623-4664.	4.5	43
18	The design of a spiro-pyrrolidine organocatalyst and its application to catalytic asymmetric Michael addition for the construction of all-carbon quaternary centers. <i>Chemical Communications</i> , 2015, 51, 9979-9982.	4.1	42

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19	Tandem C-H oxidation/cyclization/rearrangement and its application to asymmetric syntheses of (âˆ“)-brussonol and (âˆ“)-przewalskine. <i>Nature Communications</i> , 2015, 6, 7332.	12.8	40
20	Spiro-Pyrrolidine-Catalyzed Asymmetric Conjugate Addition of Hydroxylamine to Enals and 2,4-Dienals. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 874-879.	4.3	37
21	Development of bifunctional organocatalysts and application to asymmetric total synthesis of nucleoficine I and II. <i>Nature Communications</i> , 2019, 10, 3394.	12.8	37
22	Efficient one-pot synthesis of substituted pyrazoles. <i>Tetrahedron</i> , 2013, 69, 1427-1433.	1.9	34
23	Total Synthesis of the Nominal Didemnaketal...A. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10846-10850.	13.8	28
24	Enantioselective Construction of 2-Aryl-2,3-dihydrobenzofuran Scaffolds Using Cu/SPDO-Catalyzed [3 + 2] Cycloaddition. <i>Organic Letters</i> , 2021, 23, 1258-1262.	4.6	28
25	Collective Total Synthesis of Aspidofractinine Alkaloids through the Development of a Bischler-Napieralski/Semipinacol Rearrangement Reaction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21954-21958.	13.8	27
26	Iron-Catalyzed $\hat{\pm}$ -Arylation of Deoxybenzoins with Arenes through an Oxidative Dehydrogenative Approach. <i>Organic Letters</i> , 2016, 18, 4754-4757.	4.6	26
27	Catalytic Asymmetric Total Syntheses of (âˆ“)-Galanthamine and (âˆ“)-Lycoramine. <i>Journal of Organic Chemistry</i> , 2019, 84, 12664-12671.	3.2	26
28	Enantioselective Catalytic Aldehyde $\hat{\pm}$ -Alkylation/Semipinacol Rearrangement: Construction of $\hat{\pm}$ -Quaternary Carbonyl Cycloketones and Total Synthesis of (+)-Cerapicol. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8471-8475.	13.8	25
29	Catalytic Asymmetric Cascade Using Spiro-Pyrrolidine Organocatalyst: Efficient Construction of Hydrophenanthridine Derivatives. <i>Organic Letters</i> , 2017, 19, 6618-6621.	4.6	23
30	Efficient Oxa-Diels-Alder/Semipinacol Rearrangement/Aldol Cascade Reaction: Short Approach to Polycyclic Architectures. <i>Organic Letters</i> , 2015, 17, 1014-1017.	4.6	22
31	Transition-metal-free $\hat{\pm}$ -arylation of nitroketones with diaryliodonium salts for the synthesis of tertiary $\hat{\pm}$ -aryl, $\hat{\pm}$ -nitro ketones. <i>Chemical Communications</i> , 2019, 55, 119-122.	4.1	22
32	Catalytic Asymmetric Construction of $\hat{\pm}$ -Quaternary Cyclopentanones and Its Application to the Syntheses of (âˆ“)-1,14-Herbertenediol and (âˆ“)-Aphanorphine. <i>Chemistry - A European Journal</i> , 2015, 21, 15502-15505.	3.3	20
33	Gold(I)/Copper(II)-Cocatalyzed Tandem Cyclization/Semipinacol Reaction: Construction of 6-Aza/Oxa-Spiro[4.5]decane Skeletons and Formal Synthesis of (âˆ“)-Halichlorine. <i>Advanced Synthesis and Catalysis</i> , 2015, 357, 747-752.	4.3	20
34	A catalytic asymmetric one-pot [3+2] cyclization/semipinacol rearrangement sequence: an efficient construction of a multi-substituted 3-H-spiro[benzofuran-2,1 <sup>2</sup> -cyclopentane] skeleton. <i>Chemical Communications</i> , 2019, 55, 3789-3792.	4.1	20
35	Synthesis and Biological Evaluation of New 4 <sup>1</sup> -5-Fu-substituted 4'-Demethylepipodophyllotoxin Derivatives. <i>Molecules</i> , 2006, 11, 849-857.	3.8	19
36	Catalytic intermolecular carbon electrophile induced semipinacol rearrangement. <i>Chemical Communications</i> , 2013, 49, 1648.	4.1	19

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37	Propargylic cation-induced intermolecular electrophilic addition-semipinacol rearrangement. <i>Chemical Communications</i> , 2014, 50, 5691-5694.	4.1	19
38	A catalytic allylic cation-induced intermolecular allylation-semipinacol rearrangement. <i>Chemical Communications</i> , 2018, 54, 7685-7688.	4.1	19
39	A Cu-mediated one-pot Michael addition/ $\beta$ -arylation strategy using a diaryliodonium salt: a direct and efficient approach to $\beta$ -aryl- $\beta$ -substituted cyclic ketone scaffolds. <i>Chemical Communications</i> , 2016, 52, 2382-2385.	4.1	17
40	A Simple and Efficient Method for the Preparation of $\beta$ -Halogenated Ketones Using Iron(III) Chloride and Iron(III) Bromide as Halogen Sources with Phenyliodonium Diacetate as Oxidant. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 4177-4183.	4.3	17
41	Facile access to diverse all-carbon quaternary center containing spirobicycles by exploring a tandem Castro-Stephens coupling/acyloxy shift/cyclization/semipinacol rearrangement sequence. <i>Chemical Science</i> , 2020, 11, 3878-3884.	7.4	17
42	Exploration of a KI-catalyzed oxidation system for direct construction of bispyrrolidino[2,3- <i>b</i> ]indolines and the total synthesis of (+)-WIN 64821. <i>Chemical Communications</i> , 2020, 56, 121-124.	4.1	16
43	Asymmetric epoxidation of $\beta$ -unsaturated aldehydes catalyzed by a spiro-pyrrolidine-derived organocatalyst. <i>Tetrahedron: Asymmetry</i> , 2016, 27, 294-300.	1.8	15
44	Allylic Arylation of 1,3-Dienes via Hydroboration/Migrative Suzuki-Miyaura Cross-Coupling Reactions. <i>ACS Catalysis</i> , 2018, 8, 6094-6099.	11.2	15
45	Chiral 1,2,3-Triazolium Salt Catalyzed Asymmetric Mono- and Dialkylation of 2,5-Diketopiperazines with the Construction of Tetrasubstituted Carbon Centers. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202114129.	13.8	14
46	Iron(III) chloride hexahydrate-promoted selective hydroxylation and chlorination of benzyl ketone derivatives for the construction of hetero-quaternary scaffolds. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 9859-9867.	2.8	13
47	Transition-Metal-Free Site-Selective $\beta$ -C(sp <sup>2</sup> )-H Monoiodination of Arenes Directed by an Aliphatic Keto Group. <i>Organic Letters</i> , 2020, 22, 5314-5319.	4.6	13
48	Copper-Nitrene-Catalyzed Desymmetric Oxaziridination/1,2-Alkyl Rearrangement of 1,3-Diketones toward Bicyclic Lactams. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22688-22692.	13.8	13
49	A RhCl(PPh <sub>3</sub> ) <sub>3</sub> /BF <sub>3</sub> ·OEt <sub>2</sub> co-promoted direct C cross-coupling of alcohols at $\beta$ -position with aldehydes. <i>Tetrahedron Letters</i> , 2009, 50, 4178-4181.	1.4	12
50	A Triazole Organocatalyst with Spiropyrrrolidine Framework and its Application to the Catalytic Asymmetric Addition of Nitromethane to $\beta$ -Unsaturated Aldehydes. <i>Advanced Synthesis and Catalysis</i> , 2015, 357, 3831-3835.	4.3	12
51	Total Syntheses of the Tetracyclic Cyclopiane Diterpenes Conidiogenone, Conidiogenol, and Conidiogenone...B. <i>Angewandte Chemie</i> , 2016, 128, 4532-4536.	2.0	11
52	p-Toluenesulfonic acid catalysed fluorination of $\beta$ -branched ketones for the construction of fluorinated quaternary carbon centres. <i>Chemical Communications</i> , 2018, 54, 12377-12380.	4.1	11
53	Cu(II)/SPDO complex catalyzed asymmetric Baeyer-Villiger oxidation of 2-arylcyclobutanones and its application for the total synthesis of eupomatilones 5 and 6. <i>Chemical Science</i> , 2022, 13, 8429-8435.	7.4	11
54	Development of unique dianionic Ir(III) CCC pincer complexes with a favourable spirocyclic NHC framework. <i>Science China Chemistry</i> , 2020, 63, 1761-1766.	8.2	10

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55	An effective and versatile strategy for the synthesis of structurally diverse heteroarylsilanes via Ir(III)-catalyzed C-H silylation. <i>Chemical Science</i> , 2021, 12, 9748-9753.	7.4	10
56	Enantioselective Catalytic Aldehyde $\alpha$ -Alkylation/Semipinacol Rearrangement: Construction of $\alpha$ -Quaternary $\beta$ -Carbonyl Cycloketones and Total Synthesis of (+)-Cerapicol. <i>Angewandte Chemie</i> , 2020, 132, 8549-8553.	13.0	9
57	NH <sub>4</sub> HF <sub>2</sub> as a Selective TBS-Removal Reagent for the Synthesis of Highly Functionalized Spiroketal via Tandem Deprotection/Spiroketalization Procedure. <i>Journal of Organic Chemistry</i> , 2014, 79, 546-558.	3.2	8
58	Copper-catalyzed highly diastereoselective cross-dehydrogenative coupling between 8-hydroxyisochromanes and 1,3-dicarbonyl compounds. <i>Organic Chemistry Frontiers</i> , 2019, 6, 2275-2279.	4.5	8
59	Catalytic enantioselective synthesis of chiral spirocyclic 1,3-diketones via organo-cation catalysis. <i>Chemical Communications</i> , 2021, 57, 11233-11235.	4.1	8
60	Improved synthesis of 8-oxabicyclo[3.2.1]octanes via tandem C-H oxidation/oxa-[3,3] Cope rearrangement/aldol cyclization. <i>Chemical Communications</i> , 2018, 54, 196-199.	4.1	7
61	Construction of Polyfunctionalized 6 $\alpha$ -5 Fused Tricyclic Carbocycles via One-Pot Sequential Semipinacol Rearrangement/Michael Addition/Henry Reaction. <i>Organic Letters</i> , 2020, 22, 2076-2080.	4.6	7
62	Comprehension of the $\alpha$ -Arylation of Nitroalkanes. <i>Current Organic Chemistry</i> , 2019, 23, 1560-1580.	1.6	6
63	Remote asymmetric conjugate addition catalyzed by a bifunctional spiro-pyrrolidine-derived thiourea catalyst. <i>Organic Chemistry Frontiers</i> , 2021, 8, 3292-3297.	4.5	6
64	The organocatalytic enantiodivergent fluorination of $\beta$ -ketodiaryl-phosphine oxides for the construction of carbon-fluorine quaternary stereocenters. <i>Chemical Communications</i> , 2021, 57, 2069-2072.	4.1	6
65	Exploration of Oxidative Ritter-Type Reaction of $\alpha$ -Arylketones and Its Application for the Collective Total Syntheses of Erythrina Alkaloids. <i>CCS Chemistry</i> , 0, , 1-13.	7.8	6
66	Asymmetric Synthesis of the C(17)-C(28) Subunit of Didemnaketal B. <i>Chinese Journal of Chemistry</i> , 2007, 25, 1357-1362.	4.9	4
67	Towards the real didemnaketal A: total syntheses of two C-21 stereoisomers of the proposed didemnaketal A. <i>Tetrahedron Letters</i> , 2014, 55, 3784-3787.	1.4	3
68	Chiral 1,2,3-Triazolium Salt Catalyzed Asymmetric Mono- and Dialkylation of 2,5-Diketopiperazines with the Construction of Tetrasubstituted Carbon Centers. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	2
69	Construction of the tetracyclic core of the <i>Lycopodium</i> alkaloid annotinolide C. <i>Organic Chemistry Frontiers</i> , 2021, 8, 2510-2514.	4.5	1
70	Applications of Ammonium Bifluoride in Organic Synthesis. <i>Current Organic Chemistry</i> , 2018, 22, 581-589.	1.6	1
71	Frontispiece: Total Syntheses of the Tetracyclic Cyclopiane Diterpenes Conidiogenone, Conidiogenol, and Conidiogenone...B. <i>Angewandte Chemie - International Edition</i> , 2016, 55, .	13.8	0