

Fanyang Mo

List of Publications by Year in descending order

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62
papers

4,792
citations

136950

32
h-index

110387

64
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83
all docs

83
docs citations

83
times ranked

4428
citing authors

#	ARTICLE	IF	CITATIONS
1	Transition metal-catalyzed ketone-directed or mediated C-H functionalization. <i>Chemical Society Reviews</i> , 2015, 44, 7764-7786.	38.1	497
2	Recent applications of arene diazonium salts in organic synthesis. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 1582.	2.8	396
3	Regioselective ketone α -alkylation with simple olefins via dual activation. <i>Science</i> , 2014, 345, 68-72.	12.6	248
4	Silver-Mediated Trifluoromethylation of Aryldiazonium Salts: Conversion of Amino Group into Trifluoromethyl Group. <i>Journal of the American Chemical Society</i> , 2013, 135, 10330-10333.	13.7	222
5	Gold-Catalyzed Halogenation of Aromatics by <i>N</i> -Halosuccinimides. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2028-2032.	13.8	213
6	Direct Conversion of Arylamines to Pinacol Boronates: A Metal-Free Borylation Process. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1846-1849.	13.8	206
7	Catalytic Functionalization of Unactivated sp^3 C-H Bonds via <i>exo</i> -Directing Groups: Synthesis of Chemically Differentiated 1,2-Diols. <i>Journal of the American Chemical Society</i> , 2012, 134, 16991-16994.	13.7	203
8	Synthesis of <i>ortho</i> -Acylphenols through the Palladium-Catalyzed Ketone-Directed Hydroxylation of Arenes. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 13075-13079.	13.8	195
9	Synthesis, Structure, and Reactivity of Anionic sp^2 -Diboron Compounds: Readily Accessible Boryl Nucleophiles. <i>Chemistry - A European Journal</i> , 2015, 21, 7082-7098.	3.3	175
10	Recent Development of Aryl Diazonium Chemistry for the Derivatization of Aromatic Compounds. <i>Chemical Reviews</i> , 2021, 121, 5741-5829.	47.7	160
11	Enantioselective Synthesis of Trisubstituted Allenes via Cu(I)-Catalyzed Coupling of Diazoalkanes with Terminal Alkynes. <i>Journal of the American Chemical Society</i> , 2016, 138, 14558-14561.	13.7	149
12	C-H Bond Carboxylation with Carbon Dioxide. <i>ChemSusChem</i> , 2019, 12, 6-39.	6.8	131
13	Synthesis of Pinacol Arylboronates from Aromatic Amines: A Metal-Free Transformation. <i>Journal of Organic Chemistry</i> , 2013, 78, 1923-1933.	3.2	128
14	Diboron-Assisted Interfacial Defect Control Strategy for Highly Efficient Planar Perovskite Solar Cells. <i>Advanced Materials</i> , 2018, 30, e1805085.	21.0	128
15	Renaissance of Sandmeyer-Type Reactions: Conversion of Aromatic C-N Bonds into C-X Bonds (X = B, Tj ETQg1 1 0.784314 rgB	15.6	124
16	Mn-Mediated Electrochemical Trifluoromethylation/C(sp^2)-H Functionalization Cascade for the Synthesis of Azaheterocycles. <i>Organic Letters</i> , 2019, 21, 762-766.	4.6	116
17	Gold(III)-Catalyzed Halogenation of Aromatic Boronates with <i>N</i> -Halosuccinimides. <i>Organic Letters</i> , 2010, 12, 5474-5477.	4.6	94
18	Alcohols or Masked Alcohols as Directing Groups for C-H Bond Functionalization. <i>Chemistry Letters</i> , 2014, 43, 264-271.	1.3	87

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19	Synthesis of Aryl Trimethylstannanes from Aryl Amines: A Sandmeyer-Type Stannylation Reaction. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11581-11584.	13.8	78
20	Bifunctional Ligand-Assisted Catalytic Ketone α -Alkenylation with Internal Alkynes: Controlled Synthesis of Enones and Mechanistic Studies. <i>Journal of the American Chemical Society</i> , 2015, 137, 15518-15527.	13.7	76
21	A general electrochemical strategy for the Sandmeyer reaction. <i>Chemical Science</i> , 2018, 9, 8731-8737.	7.4	67
22	Transition-Metal-Free Borylation of Alkyl Iodides via a Radical Mechanism. <i>Organic Letters</i> , 2019, 21, 6597-6602.	4.6	51
23	Oxidant-Free C(sp ²)-H Functionalization/C=O Bond Formation: A Kolbe Oxidative Cyclization Process. <i>Journal of Organic Chemistry</i> , 2018, 83, 3200-3207.	3.2	46
24	Unveiling the full reaction path of the Suzuki-Miyaura cross-coupling in a single-molecule junction. <i>Nature Nanotechnology</i> , 2021, 16, 1214-1223.	31.5	46
25	Highly Diastereoselective Addition of the Lithium Enolate of α -Diazoacetate to N-Sulfinyl Imines: Enantioselective Synthesis of 2-Oxo and 3-Oxo Pyrrolidines. <i>Journal of Organic Chemistry</i> , 2008, 73, 1971-1974.	3.2	45
26	Gold(III)-Catalyzed Direct Acetoxylation of Arenes with Iodobenzene Diacetate. <i>Organic Letters</i> , 2011, 13, 4988-4991.	4.6	42
27	Metal-Free Aromatic Carbon-Phosphorus Bond Formation via a Sandmeyer-Type Reaction. <i>Journal of Organic Chemistry</i> , 2016, 81, 11603-11611.	3.2	42
28	Synthesis of Trimethylstannyl Arylboronate Compounds by Sandmeyer-Type Transformations and Their Applications in Chemoselective Cross-Coupling Reactions. <i>Journal of Organic Chemistry</i> , 2014, 79, 1979-1988.	3.2	36
29	A base-free, one-pot diazotization/cross-coupling of anilines with arylboronic acids. <i>Tetrahedron Letters</i> , 2011, 52, 518-522.	1.4	35
30	Electrocatalytic Oxidative Hydrofunctionalization Reactions of Alkenes via Co(II/III/IV) Cycle. <i>ACS Catalysis</i> , 2022, 12, 2132-2137.	11.2	34
31	Oxidant-free oxidation of C-H bonds by cathodic hydrogen evolution: a phosphonic Kolbe oxidation/cyclization process. <i>Green Chemistry</i> , 2018, 20, 3916-3920.	9.0	29
32	An accurate, high-speed, portable bifunctional electrical detector for COVID-19. <i>Science China Materials</i> , 2021, 64, 739-747.	6.3	29
33	Energy-Level Modulation in Diboron-Modified SnO ₂ for High-Efficiency Perovskite Solar Cells. <i>Solar Rrl</i> , 2020, 4, 1900217.	5.8	28
34	AuPPh ₃ Cl/AgOTf-catalyzed reaction of terminal alkynes: nucleophilic addition to activated CO bond. <i>Tetrahedron Letters</i> , 2009, 50, 6053-6056.	1.4	27
35	Rhodium(I)-Catalyzed C-C Bond Activation of Siloxyvinylcyclopropanes with Diazoesters. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15401-15405.	13.8	27
36	Modification of TiO ₂ Nanoparticles with Organodiboron Molecules Inducing Stable Surface Ti ³⁺ Complex. <i>IScience</i> , 2019, 20, 195-204.	4.1	24

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37	Recent Advances in Transition-Metal-Catalyzed Cross-Coupling Reactions With N-Tosylhydrazones. <i>Advances in Organometallic Chemistry</i> , 2017, 67, 151-219.	1.0	22
38	Electrochemical Radical Borylation of Aryl Iodides. <i>Chinese Journal of Chemistry</i> , 2019, 37, 347-351.	4.9	21
39	Enantioselective synthesis of condensed and transannular ring skeletons containing pyrrolidine moiety. <i>Tetrahedron</i> , 2010, 66, 1274-1279.	1.9	20
40	Cu(I)-Catalyzed Asymmetric Cross-Coupling of N-Tosylhydrazones and Trialkylsilylethyne: Enantioselective Construction of C(sp) ² -C(sp ³) Bonds. <i>Chinese Journal of Chemistry</i> , 2018, 36, 217-222.	4.9	20
41	Addition of Diazo Compounds ipso-C-H Bond to Carbon Disulfide: Synthesis of 1,2,3-Thiadiazoles under Mild Conditions. <i>Journal of Organic Chemistry</i> , 2018, 83, 4275-4278.	3.2	19
42	Anodic oxidation triggered divergent 1,2- and 1,4-group transfer reactions of β -hydroxycarboxylic acids enabled by electrochemical regulation. <i>Chemical Science</i> , 2020, 11, 12021-12028.	7.4	18
43	Direct Carboxylation of the Diazo Group ipso-C(sp ²) ² -H bond with Carbon Dioxide: Access to Unsymmetrical Diazomalonates and Derivatives. <i>Organic Letters</i> , 2017, 19, 6756-6759.	4.6	17
44	Electrocatalytic Oxidative Transformation of Organic Acids for Carbon-Heteroatom and Sulfur-Heteroatom Bond Formation. <i>ChemSusChem</i> , 2020, 13, 1661-1687.	6.8	17
45	Cu-Catalysed carboxylation of aryl boronic acids with CO ₂ . <i>Organic Chemistry Frontiers</i> , 2019, 6, 3673-3677.	4.5	16
46	Single-molecule electrical spectroscopy of organocatalysis. <i>Matter</i> , 2021, 4, 2874-2885.	10.0	15
47	Organic Borylation Reactions via Radical Mechanism. <i>Acta Chimica Sinica</i> , 2020, 78, 1297.	1.4	14
48	Transition metal- and light-free radical borylation of alkyl bromides and iodides using silane. <i>Chemical Communications</i> , 2021, 57, 5674-5677.	4.1	11
49	Carboxylation of Alkenyl Boronic Acids and Alkenyl Boronic Acid Pinacol Esters with CO ₂ Catalyzed by Cuprous Halide. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 2813-2818.	2.4	9
50	Cholate-Based Synthesis of Size-Tunable Cage Compounds. <i>Journal of Organic Chemistry</i> , 2015, 80, 1221-1228.	3.2	8
51	Accurate Single-Molecule Kinetic Isotope Effects. <i>Journal of the American Chemical Society</i> , 2022, , .	13.7	8
52	Rhodium(I)-Catalyzed C-C Bond Activation of Siloxyvinylcyclopropanes with Diazoesters. <i>Angewandte Chemie</i> , 2016, 128, 15627-15631.	2.0	7
53	Studies toward the Synthesis of (+)-Harmicine. <i>Chinese Journal of Chemistry</i> , 2012, 30, 2297-2302.	4.9	5
54	Catalyst-Free Imidation of Allyl Sulfides with Chloramine-T and Subsequent [2,3]-Sigmatropic Rearrangement. <i>Chinese Journal of Chemistry</i> , 2012, 30, 2029-2035.	4.9	5

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55	Zn ⁺ O ⁻ Dual-Spin Surface State Formation by Modification of ZnO Nanoparticles with Diboron Compounds. <i>Langmuir</i> , 2019, 35, 14173-14179.	3.5	5
56	Photo-induced radical borylation of hemiacetals via C=C bond cleavage. <i>Tetrahedron</i> , 2021, 80, 131867.	1.9	5
57	New Developments in Aromatic Halogenation, Borylation, and Cyanation. <i>Chimia</i> , 2011, 65, 909.	0.6	4
58	Transition Metal Free Stannylation of Alkyl Halides: The Rapid Synthesis of Alkyltrimethylstannanes. <i>Journal of Organic Chemistry</i> , 2022, 87, 4291-4297.	3.2	3
59	Increments for ¹ H and ¹³ C NMR chemical shifts in pinacol arylboronates. <i>Canadian Journal of Chemistry</i> , 2012, 90, 71-74.	1.1	1
60	Diastereoselective addition of lithium enolate of β -substituted α -diazoacetoacetate to N-sulfinyl imines. <i>Science Bulletin</i> , 2010, 55, 2847-2854.	1.7	0
61	Frontispiece: Synthesis, Structure, and Reactivity of Anionic sp ² -sp ³ Diboron Compounds: Readily Accessible Boryl Nucleophiles. <i>Chemistry - A European Journal</i> , 2015, 21, n/a-n/a.	3.3	0
62	Back Cover: Electrochemical Radical Borylation of Aryl Iodides (<i>Chin. J. Chem.</i> 4/2019). <i>Chinese Journal of Chemistry</i> , 2019, 37, 420-420.	4.9	0