Yang Gao

List of Publications by Year
in descending order

58 papers	2,222 citations	201385 27 h-index	233125 45 g-index
63 all docs	63 docs citations	63 times ranked	2107 citing authors

#	Article	IF	Citations
1	Rhodium(III)-Catalyzed <i>N</i>-Nitroso-Directed Câ€“H Olefination of Arenes. High-Yield, Versatile Coupling under Mild Conditions. Journal of the American Chemical Society, 2013, 135, 468-473.	6.6	223
2	Simple and Efficient Generation of Aryl Radicals from Aryl Triflates: Synthesis of Aryl Boronates and Aryl Iodides at Room Temperature. Journal of the American Chemical Society, 2017, 139, 8621-8627.	6.6	139
3	Copperâ€Catalyzed Intermolecular Oxidative Cyclization of Haloâ€•alkynes: Synthesis of 2â€Haloâ€substituted Imidazo[1,2â€<i>a</i>]pyridines, Imidazo[1,2â€<i>a</i>]pyrazines and Imidazo[1,2â€<i>a</i>]pyrimidines. Advanced Synthesis and Catalysis, 2013, 355, 2263-2273.	2.1	109
4	Silver-Mediated Câ€“H Activation: Oxidative Coupling/Cyclization of N-Arylimines and Alkynes for the Synthesis of Quinolines. Journal of Organic Chemistry, 2012, 77, 501-510.	1.7	101
5	Palladium(0)â€Catalyzed Directed <i>syn</i>â€1,2â€Carboboration and â€Silylation: Alkene Scope, Applications in Dearomatization, and Stereocontrol by a Chiral Auxiliary. Angewandte Chemie - International Edition, 2019, 58, 17068-17073.	7.2	101
6	Ni-electrocatalytic Csp3â€“Csp3 doubly decarboxylative coupling. Nature, 2022, 606, 313-318.	13.7	96
7	Transitionâ€Metalâ€Catalyzed 1,2â€Carboboration of Alkenes: Strategies, Mechanisms, and Stereocontrol. Israel Journal of Chemistry, 2020, 60, 219-229.	1.0	83
8	Electrochemical Nozakiâ€“Hiyamaâ€“Kishi Coupling: Scope, Applications, and Mechanism. Journal of the American Chemical Society, 2021, 143, 9478-9488.	6.6	78
9	Total synthesis reveals atypical atropisomerism in a small-molecule natural product, tryptorubin A. Science, 2020, 367, 458-463.	6.0	75
10	NBS-promoted halosulfonylation of terminal alkynes: highly regio- and stereoselective synthesis of (E)-Î^{2}-halo vinylsulfones. Organic Chemistry Frontiers, 2014, 1, 361-364.	2.3	64
11	Cascade CuH-catalysed conversion of alkynes into enantioenriched 1,1-disubstituted products. Nature Catalysis, 2020, 3, 23-29.	16.1	64
12	Rh-Catalyzed Câ€“H Amination/Annulation of Acrylic Acids and Anthranils by Using âˆ’COOH as a Deciduous Directing Group: An Access to Diverse Quinolines. Organic Letters, 2020, 22, 2600-2605.	2.4	59
13	Single Electron Activation of Aryl Carboxylic Acids. IScience, 2020, 23, 101266.	1.9	56
14	Palladium-Catalyzed Multicomponent Reaction (MCR) of Propargylic Carbonates with Isocyanides. Organic Letters, 2016, 18, 5924-5927.	2.4	52
15	Ligandâ€Controlled Regiodivergence in Nickelâ€Catalyzed Hydroarylation and Hydroalkenylation of Alkenyl Carboxylic Acids**. Angewandte Chemie - International Edition, 2020, 59, 23306-23312.	7.2	51
16	A phosphoryl radical-initiated Athertonâ€“Todd-type reaction under open air. Chemical Communications, 2020, 56, 1357-1360.	2.2	48
17	Recent advances in phosphoranyl radical-mediated deoxygenative functionalisation. Organic Chemistry Frontiers, 2020, 7, 2319-2324.	2.3	47
18	Anthranils: versatile building blocks in the construction of Câ€“N bonds and N-heterocycles. Organic Chemistry Frontiers, 2020, 7, 1177-1196.	2.3	44

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19	Synthesis of Polysubstituted 3-Amino Pyrroles via Palladium-Catalyzed Multicomponent Reaction. Journal of Organic Chemistry, 2017, 82, 3581-3588.	1.7	42
20	Î²-Hydride Elimination and Câ€"H Activation by an Iridium Acetate Complex, Catalyzed by Lewis Acids. Alkane Dehydrogenation Cocatalyzed by Lewis Acids and [2,6-Bis(4,4-dimethyloxazolinyl)-3,5-dimethylphenyl]iridium. Journal of the American Chemical Society, 2017, 139, 6338-6350.	6.6	38
21	Organic Azides: Versatile Synthons in Transition Metalâ€Catalyzed C(<i>sp</i>²)âˆ'H Amination/Annulation for Nâ€Heterocycle Synthesis. Advanced Synthesis and Catalysis, 2021, 363, 411-424.	2.1	37
22	NiH-Catalyzed Hydroamination/Cyclization Cascade: Rapid Access to Quinolines. ACS Catalysis, 2021, 11, 7772-7779.	5.5	37
23	A Transient Directing Group Strategy Enables Enantioselective Multicomponent Organofluorine Synthesis. Journal of the American Chemical Society, 2021, 143, 8962-8969.	6.6	36
24	Recent Progress on Reductive Coupling of Nitroarenes by Using Organosilanes as Convenient Reductants. Advanced Synthesis and Catalysis, 2020, 362, 3971-3986.	2.1	35
25	Cyclic (Alkyl)(amino)carbene Ligands Enable Cuâ€Catalyzed Markovnikov Protoboration and Protosilylation of Terminal Alkynes: A Versatile Portal to Functionalized Alkenes**. Angewandte Chemie - International Edition, 2021, 60, 19871-19878.	7.2	35
26	Palladium(0)â€Catalyzed Directed syn â€1,2â€Carboboration and â€Silylation: Alkene Scope, Applications in Dearomatization, and Stereocontrol by a Chiral Auxiliary. Angewandte Chemie, 2019, 131, 17224-17229.	1.6	30
27	Synthesis of Stereodefined 1,1-Diborylalkenes via Copper-Catalyzed Diboration of Terminal Alkynes. Organic Letters, 2020, 22, 5235-5239.	2.4	29
28	Regioselective nitration of anilines with Fe(NO₃)₃Â·9H₂O as a promoter and a nitro source. Organic and Biomolecular Chemistry, 2018, 16, 3881-3884.	1.5	27
29	Divergent synthesis of fused N-heterocycles<i>via</i>rhodium-catalysed [4 + 2] cyclization of pyrazolidinones with iodonium ylides. Organic Chemistry Frontiers, 2022, 9, 2181-2186.	2.3	24
30	Palladiumâ€Catalyzed Tandem Oxidative Arylation/Olefination of Aromatic Tethered Alkenes/Alkynes. Chemistry - A European Journal, 2017, 23, 793-797.	1.7	23
31	Weak coordinated nitrogen functionality enabled regioselective Câ€"H alkynylation via Pd(ii)/mono-N-protected amino acid catalysis. Chemical Communications, 2020, 56, 11255-11258.	2.2	23
32	Copper-Catalyzed Electrophilic Amination of Arylboronic Acids with Anthranils: An Access to <i>N</i>-Aryl-2-aminophenones. Journal of Organic Chemistry, 2020, 85, 10222-10231.	1.7	22
33	(CAAC)Copper Catalysis Enables Regioselective Three-Component Carboboration of Terminal Alkynes. ACS Catalysis, 2022, 12, 7243-7247.	5.5	21
34	Ruthenium-catalysed Câ€"H/Câ€"N bond activation: facile access to isoindolinones. Organic Chemistry Frontiers, 2021, 8, 915-921.	2.3	20
35	General 5-Halomethyl Isoxazoline Synthesis Enabled by Copper-Catalyzed Oxyhalogenation of Alkenes. Journal of Organic Chemistry, 2019, 84, 12656-12663.	1.7	19
36	Activation and Oxidation of Mesitylene Câ€"H Bonds by (Phebox)Iridium(III) Complexes. Organometallics, 2015, 34, 2879-2888.	1.1	18

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37	Ironâ€Catalyzed and Airâ€Mediated C(<i>sp</i>³)âˆ’H Phosphorylation of 1,3â€Dicarbonyl Compounds Involving Câˆ’C Bond Cleavage. Advanced Synthesis and Catalysis, 2020, 362, 5783-5787.	2.1	18
38	BEDAM binding free energy predictions for the SAMPL4 octa-acid host challenge. Journal of Computer-Aided Molecular Design, 2015, 29, 315-325.	1.3	17
39	Selective Dehydrogenative Coupling of Ethylene to Butadiene via an Iridacyclopentane Complex. Journal of the American Chemical Society, 2018, 140, 2260-2264.	6.6	16
40	Merging Câ€“H Activation and Strainâ€“Release in Ruthenium-Catalyzed Isoindolinone Synthesis. Organic Letters, 2021, 23, 6332-6336.	2.4	16
41	Radical chemistry of nitrosoarenes: concepts, synthetic applications and directions. Chemical Communications, 2020, 56, 13719-13730.	2.2	15
42	Nickel-Catalyzed Hydroamination of Olefins with Anthranils. Journal of Organic Chemistry, 2021, 86, 12107-12118.	1.7	13
43	Pdâ€Catalyzed Synthesis of Vinyl Arenes from Aryl Halides and Acrylic Acid. Chemistry - A European Journal, 2019, 25, 8709-8712.	1.7	12
44	Ni-Catalyzed Enantioselective Dialkyl Carbinol Synthesis via Decarboxylative Cross-Coupling: Development, Scope, and Applications. Journal of the American Chemical Society, 2022, 144, 10992-11002.	6.6	12
45	Ru-catalysed C(sp²)â€“H vinylation/annulation of benzoic acids and alkynes: rapid access to medium-sized lactones. Chemical Communications, 2021, 57, 1113-1116.	2.2	11
46	Recent advances in catalytic synthesis of medium-ring lactones and their derivatives. Catalysis Science and Technology, 2021, 11, 6931-6946.	2.1	11
47	Rh(III)â€Catalyzed Selective ortho â€Câˆ’H Amination of Benzoic Acids with Anthranils: A Facile Access to Anthranilic Acid Derivatives (AAs). ChemCatChem, 2020, 12, 2721-2725.	1.8	10
48	Modular construction of functionalized anilines <i>via</i> switchable Câ€“H and <i>N</i>-alkylations of traceless <i>N</i>-nitroso anilines with olefins. Organic Chemistry Frontiers, 2022, 9, 2746-2752.	2.3	10
49	NiH-catalyzed dearomative hydroalkylation of indoles. Chemical Communications, 2022, 58, 5893-5896.	2.2	9
50	Sequential Câ€“H activation enabled expedient delivery of polyfunctional arenes. Chemical Communications, 2021, 57, 8075-8078.	2.2	8
51	Practical synthesis of 3-aryl anthranils <i>via</i> an electrophilic aromatic substitution strategy. Chemical Science, 2022, 13, 2105-2114.	3.7	8
52	Ligandâ€Controlled Regiodivergence in Nickelâ€Catalyzed Hydroarylation and Hydroalkenylation of Alkenyl Carboxylic Acids**. Angewandte Chemie, 2020, 132, 23506-23512.	1.6	6
53	Strain-release enabled [3 + 2] annulation of 3-aminooxetanes with simple Cî€N bonds: facile synthesis of imidazolidines. Organic Chemistry Frontiers, 2021, 8, 6616-6621.	2.3	6
54	Ligand-accelerated site-selective Csp²â€“H and Csp³â€“H alkynylations of alcohols <i>via</i> Pd(<scp>ii</scp>) catalysis. Organic Chemistry Frontiers, 2021, 8, 6484-6490.	2.3	5

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55	Transition-metal-free decarboxylative <i>ipso</i> amination of aryl carboxylic acids. Organic Chemistry Frontiers, 2021, 8, 3434-3439.	2.3	4
56	A three-component reaction of arynes, sodium sulfinates, and aldehydes toward 2-sulfonyl benzyl alcohol derivatives. Organic and Biomolecular Chemistry, 2021, 19, 7066-7073.	1.5	3
57	Merging strain-release and copper catalysis: the selective ring-opening cross-coupling of 1,2-oxazetidines with boronic acids. Chemical Communications, 2022, 58, 4180-4183.	2.2	2
58	Cyclic (Alkyl)(amino)carbene Ligands Enable Cuâ€Catalyzed Markovnikov Protoboration and Protosilylation of Terminal Alkynes: A Versatile Portal to Functionalized Alkenes**. Angewandte Chemie, 2021, 133, 20024-20031.	1.6	1