

Wei-Dong Rao

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128
ext. papers

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ext. citations

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L-index

#	Paper	IF	Citations
96	Gold-catalyzed cycloisomerization reactions of 2-tosylaminophenylprop-1-yn-3-ols as a versatile approach for indole synthesis. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 4619-23	16.4	118
95	Gold-catalyzed cycloisomerization of 1,6-diyne carbonates and esters to 2,4a-dihydro-1H-fluorenes. <i>Journal of the American Chemical Society</i> , 2013 , 135, 7926-32	16.4	114
94	Gold-catalyzed tandem 1,3-migration/[2 + 2] cycloaddition of 1,7-enyne benzoates to azabicyclo[4.2.0]oct-5-enes. <i>Journal of the American Chemical Society</i> , 2011 , 133, 15248-51	16.4	107
93	Ligand-controlled product selectivity in gold-catalyzed double cycloisomerization of 1,11-dien-3,9-diyne benzoates. <i>Journal of the American Chemical Society</i> , 2015 , 137, 6350-5	16.4	94
92	Gold-catalyzed cycloisomerization of 1,7-diyne benzoates to indeno[1,2-c]azepines and azabicyclo[4.2.0]octa-1(8),5-dines. <i>Journal of the American Chemical Society</i> , 2012 , 134, 10811-4	16.4	88
91	Gold-catalysed allylic alkylation of aromatic and heteroaromatic compounds with allylic alcohols. <i>Organic and Biomolecular Chemistry</i> , 2008 , 6, 2426-33	3.9	75
90	Gold- and silver-catalyzed tandem amination/ring expansion of cyclopropyl methanols with sulfonamides as an expedient route to pyrrolidines. <i>Chemistry - A European Journal</i> , 2008 , 14, 10486-95	4.8	58
89	Gold-catalyzed tandem intramolecular heterocyclization/Petasis-Ferrier rearrangement of 2-(prop-2-ynyloxy)benzaldehydes as an expedient route to benzo[b]oxepin-3(2 H)-ones. <i>Chemistry - A European Journal</i> , 2011 , 17, 1437-41	4.8	57
88	Gold-catalyzed domino aminocyclization/1,3-sulfonyl migration of N-substituted N-sulfonyl-aminobut-3-yn-2-ols to 1-substituted 3-sulfonyl-1H-pyrroles. <i>Journal of Organic Chemistry</i> , 2013 , 78, 7508-17	4.2	52
87	Iodine-catalyzed allylation of 1,3-dicarbonyl compounds with allylic alcohols at room temperature. <i>Tetrahedron Letters</i> , 2008 , 49, 122-126	2	48
86	Gold-catalyzed cycloisomerization of 1,7-enyne esters to structurally diverse cis-1,2,3,6-tetrahydropyridin-4-yl ketones. <i>Journal of Organic Chemistry</i> , 2013 , 78, 3183-95	4.2	47
85	Gold-catalyzed cycloisomerization of 1,6,8-dienyne carbonates and esters to cis-cyclohepta-4,8-diene-fused pyrrolidines. <i>Chemistry - A European Journal</i> , 2014 , 20, 13174-80	4.8	45
84	Iodine-catalyzed allylic alkylation of sulfonamides and carbamates with allylic alcohols at room temperature. <i>Tetrahedron Letters</i> , 2008 , 49, 2620-2624	2	45
83	Gold-catalyzed [2+2+1] cycloaddition of 1,6-diyne carbonates and esters with aldehydes to 4-(cyclohexa-1,3-dienyl)-1,3-dioxolanes. <i>Chemistry - A European Journal</i> , 2014 , 20, 713-8	4.8	44
82	Ytterbium(III) triflate-catalyzed amination of 1-cyclopropylprop-2-yn-1-ols as an expedient route to conjugated enynes. <i>Journal of Organic Chemistry</i> , 2009 , 74, 1740-3	4.2	43
81	Broadly Applicable Directed Catalytic Reductive Difunctionalization of Alkenyl Carbonyl Compounds. <i>CheM</i> , 2020 , 6, 738-751	16.2	42
80	Rapid access to halohydrofurans via Brønsted acid-catalyzed hydroxylation/halocyclization of cyclopropyl methanols with water and electrophilic halides. <i>Journal of Organic Chemistry</i> , 2011 , 76, 2521-31	4.2	39

79	Iron(III) chloride-catalysed direct nucleophilic alpha-substitution of Morita-Baylis-Hillman alcohols with alcohols, arenes, 1,3-dicarbonyl compounds, and thiols. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 4186-93	3.9	38
78	Ga(OTf)-Catalyzed Temperature-Controlled Regioselective Friedel-Crafts Alkylation of Trifluoromethylated 3-Indolylmethanols with 2-Substituted Indoles: Divergent Synthesis of Trifluoromethylated Unsymmetrical 3,3Sand 3,6SBis(indolyl)methanes. <i>Organic Letters</i> , 2019 , 21, 3396-3401	6.2	37
77	Cyclopropyl carbinol rearrangement for benzo-fused nitrogen ring synthesis. <i>Chemistry - A European Journal</i> , 2011 , 17, 10081-8	4.8	36
76	Nickel-Catalyzed Defluorinative Reductive Cross-Coupling Reaction of Difluoroalkenes with Thiosulfonate or Selenium Sulfonate. <i>Journal of Organic Chemistry</i> , 2019 , 84, 11542-11552	4.2	35
75	Gold-Catalyzed Cycloisomerization Reactions of 2-Tosylaminophenylprop-1-yn-3-ols as a Versatile Approach for Indole Synthesis. <i>Angewandte Chemie</i> , 2010 , 122, 4723-4727	3.6	34
74	Gold-catalyzed cycloisomerization of 1,6-diyne esters to 1H-cyclopenta[b]naphthalenes, cis-cyclopenten-2-yl diketones, and bicyclo[3.2.0]hepta-1,5-dienes. <i>Journal of Organic Chemistry</i> , 2014 , 79, 11301-15	4.2	32
73	Gold- and silver-catalyzed allylic alkylation of 1,3-dicarbonyl compounds with allylic alcohols. <i>Tetrahedron</i> , 2009 , 65, 1833-1838	2.4	32
72	Gold-Catalyzed Cycloisomerization and Diels-Alder Reaction of 1,4,9-Dienyne Esters to 3 a,6-Methanoisindole Esters with Pro-Inflammatory Cytokine Antagonist Activity. <i>Chemistry - A European Journal</i> , 2015 , 21, 9111-8	4.8	31
71	A trisulfur radical anion (S ₃ ⁻) involved sulfur insertion reaction of 1,3-enynes: sulfide sources control chemoselective synthesis of 2,3,5-trisubstituted thiophenes and 3-thienyl disulfides. <i>Chemical Communications</i> , 2019 , 55, 7808-7811	5.8	26
70	Gold-Catalyzed Sequential Cyclization of 1-En-3,9-Diyne Esters to Partially Hydrogenated 3H-Dicyclopenta[a,b]naphthalenes. <i>Chemistry - A European Journal</i> , 2016 , 22, 6532-6	4.8	26
69	Gold-Catalyzed Tandem 1,3-Migration/Double Cyclopropanation of 1-Ene-4,n-diyne Esters to Tetracyclodecene and Tetracycloundecene Derivatives. <i>Organic Letters</i> , 2016 , 18, 4730-3	6.2	25
68	Gold-catalyzed benzannulation of 5-hydroxy-3-oxoalk-6-ynoate esters to o-phenolic esters. <i>Organic Letters</i> , 2014 , 16, 1248-51	6.2	25
67	Palladium-Catalyzed One-Pot Synthesis of C2-Quaternary Indolin-3-ones via 1H-indole-3-sulfonates Generated in Situ from 2-Alkynyl Arylazides and Sulfonic Acids. <i>Advanced Synthesis and Catalysis</i> , 2017 , 359, 4147-4152	5.6	25
66	Copper(II) Triflate-Catalyzed Intramolecular Hydroamination of Homoallylic Amino Alcohols as an Expedient Route to trans-2,5-Dihydro-1H-pyrroles and 1,2-Dihydroquinolines. <i>Advanced Synthesis and Catalysis</i> , 2010 , 352, 2521-2530	5.6	25
65	Discovery of a small-molecule inhibitor of STAT3 by ligand-based pharmacophore screening. <i>Methods</i> , 2015 , 71, 38-43	4.6	19
64	Selective Quadruple C(sp)-F Functionalization of Polyfluoroalkyl Ketones. <i>IScience</i> , 2020 , 23, 101259	6.1	19
63	Synthesis of highly substituted indene derivatives by Brønsted acid catalyzed Friedel-Crafts reaction of homoallylic alcohols. <i>Tetrahedron Letters</i> , 2014 , 55, 3881-3884	2	18
62	Gold-catalyzed formation of indole derivatives from 2-alkynyl arylazides and oxygen-containing heterocycles. <i>RSC Advances</i> , 2016 , 6, 56319-56322	3.7	17

61	Synthesis of (Z)-1,2-dihydro-1-tosylbenzo[b]azepin-3-ones by two-step, one-pot gold-catalyzed tandem heterocyclization/Petasis-Bierrier rearrangement of 2-(N-(prop-2-ynyl)-N-tosylamino)benzaldehydes. <i>Tetrahedron</i> , 2013 , 69, 5558-5565	2.4	17
60	Alkyl halides as both hydride and alkyl sources in catalytic regioselective reductive olefin hydroalkylation. <i>Nature Communications</i> , 2020 , 11, 5857	17.4	17
59	Three-component heteroannulation for tetrasubstituted furan construction enabled by successive defluorination and dual sulfonylation relay. <i>Green Chemistry</i> , 2021 , 23, 935-941	10	16
58	Copper(II)-Mediated Ring Opening/Alkynylation of Tertiary Cyclopropanols by Using Nonmodified Terminal Alkynes. <i>Organic Letters</i> , 2020 , 22, 5456-5461	6.2	15
57	Synthesis of 1H-indole-3-sulfonates via palladium-catalyzed tandem reactions of 2-alkynyl arylazides with sulfonic acids. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 6080-6083	3.9	15
56	Silica Gel Mediated Friedel-Crafts Alkylation of 3-Indolylmethanols with Indoles: Synthesis of Unsymmetrical Bis(3-indolyl)methanes. <i>European Journal of Organic Chemistry</i> , 2017 , 2017, 2266-2271	3.2	14
55	Gold-Catalyzed Dehydrogenative Cycloisomerization of 1,4-Enyne Esters to 3,5-Disubstituted Phenol Derivatives. <i>Advanced Synthesis and Catalysis</i> , 2017 , 359, 4359-4368	5.6	14
54	Synthesis of di(hetero)aryl sulfides by defluorinative sulfonylation of polyfluoroalkyl ketones with sodium sulfinates or arylsulfonyl chlorides. <i>Chemical Communications</i> , 2020 , 56, 8699-8702	5.8	14
53	Chemo- and Regioselective Ring Construction Driven by Visible-Light Photoredox Catalysis: an Access to Fluoroalkylated Oxazolidines Featuring an All-Substituted Carbon Stereocenter. <i>Advanced Synthesis and Catalysis</i> , 2019 , 361, 4082-4090	5.6	14
52	Gold-Catalyzed Chemoselective Synthesis of Heterocycles from 3-(2-Azidophenyl)prop-2-yn-1-ols and Aldehydes. <i>European Journal of Organic Chemistry</i> , 2016 , 2016, 4265-4268	3.2	13
51	Metal-Free Chemoselective Reaction of Sulfoxonium Ylides and Thiosulfonates: Diverse Synthesis of 1,4-Diketones, Aryl Sulfursulfoxonium Ylides, and β -Keto Thiosulfones Derivatives. <i>Organic Letters</i> , 2020 , 22, 6600-6604	6.2	13
50	Pd-Catalyzed One-Pot Insertion Reaction of Cyclic C-Acylimines into Carbon-Carbon β Bonds for the Synthesis of Polyfunctional Indolin-3-ones from 2-Alkynyl Arylazides and Aryl Ketones. <i>Advanced Synthesis and Catalysis</i> , 2019 , 361, 201-207	5.6	13
49	Lead-Mediated Highly Diastereoselective Allylation of Aldehydes with Cyclic Allylic Halides. <i>Journal of Organic Chemistry</i> , 2019 , 84, 5348-5356	4.2	12
48	Iron-mediated highly diastereoselective allylation of carbonyl compounds with cyclic allylic halides. <i>Organic Chemistry Frontiers</i> , 2019 , 6, 1581-1586	5.2	11
47	Visible-Light-Promoted Cross-Coupling Reactions of Aryldiazonium Salts with -Methyl-Sulfonylthioate or -Methyl-Selenium Sulfonate: Synthesis of Trideuteromethylated Sulfides, Sulfoxides, and Selenides. <i>Organic Letters</i> , 2020 , 22, 9128-9132	6.2	10
46	Unexpected iron(III) chloride-catalysed dimerisation of 1,1,3-trisubstituted-prop-2-yn-1-ols as an expedient route to highly conjugated indenenes. <i>Organic and Biomolecular Chemistry</i> , 2010 , 8, 4016-25	3.9	10
45	Synthesis of Polycyclic Furan and Chromene Derivatives via Cascade Reactions Enabled by Cleavage of Multiple C(sp ³) β Bonds. <i>Advanced Synthesis and Catalysis</i> , 2020 , 362, 4736-4743	5.6	10
44	DBSA-Catalyzed Regioselective Dehydrative Friedel-Crafts Arylation of CF ₃ -Containing 3-Indolyl(2-thiophenyl)methanols with 2-Substituted Indoles in Water. <i>Advanced Synthesis and Catalysis</i> , 2020 , 362, 1514-1524	5.6	9

43	Gold(I)-Catalyzed Tandem Cycloisomerization and Fluorination of 1,3(4)-Enyne Esters with NFSI: One-Pot Assembly of 5-Fluoro- Cyclopentenones. <i>Advanced Synthesis and Catalysis</i> , 2018 , 360, 3700-3708	5.6	9
42	Iron(0)-Mediated Reformatsky Reaction for the Synthesis of β -Hydroxyl Carbonyl Compounds. <i>Organic Letters</i> , 2019 , 21, 5873-5878	6.2	9
41	Indium-mediated difunctionalization of iodoalkyl-tethered unactivated alkenes via an intramolecular cyclization and an ensuing palladium-catalyzed cross-coupling reaction with aryl halides. <i>Organic Chemistry Frontiers</i> , 2020 , 7, 2703-2709	5.2	9
40	Palladium-catalyzed defluorinative alkynylation of polyfluoroalkyl ketones with alkynes for the synthesis of fluorinated fused furans. <i>Organic Chemistry Frontiers</i> , 2021 , 8, 572-578	5.2	9
39	Palladium-catalyzed direct reductive cross-coupling of aryltrimethylammonium salts with aryl bromides. <i>Organic Chemistry Frontiers</i> , 2021 , 8, 4865-4870	5.2	9
38	Stereoselective synthesis of trans- β -ketohydrazones from silyl enol ethers mediated by iodobenzene diacetate. <i>Tetrahedron Letters</i> , 2007 , 48, 3789-3792	2	8
37	Metal-Free Synthesis of α -(Carboselenoate) Benzimidazolones by Cascade Cyclization of α -Diisocyanoarenes and Selenosulfonates. <i>Organic Letters</i> , 2019 , 21, 7687-7691	6.2	7
36	Selective C(sp ³) β Functionalization of Alkyl Esters with N-/S-/O-Nucleophiles Using Perfluoroalkyl Iodide as Oxidant. <i>Advanced Synthesis and Catalysis</i> , 2020 , 362, 3388-3394	5.6	6
35	Nickel-catalyzed direct cross-coupling of heterocyclic phosphonium salts with aryl bromides. <i>Organic Chemistry Frontiers</i> ,	5.2	6
34	Copper-Catalyzed Chemoselective Cyclization Reaction of 2-Isocyanoacetophenone: Synthesis of 4-Hydroxyquinoline Compounds. <i>Journal of Organic Chemistry</i> , 2020 , 85, 1279-1284	4.2	6
33	Catalytic Enantioselective [2+2] Cycloaddition of α -Halo Acroleins: Construction of Cyclobutanes Containing Two Tetrasubstituted Stereocenters. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 21890-21894	16.4	6
32	Gold-Catalyzed Cycloisomerization/ α -Halogenation Sequence of 1,3-Enyne Esters with NXS: Efficient Synthesis of 5-Bromo/Iodo Cyclopentenones. <i>European Journal of Organic Chemistry</i> , 2019 , 2019, 999-1007	3.2	6
31	Nickel-Catalyzed Direct Cross-Coupling of Aryl Sulfonium Salt with Aryl Bromide.. <i>Organic Letters</i> , 2022 ,	6.2	6
30	Synthesis and Biological Activity of Novel Pinanyl Pyrazole Acetamide Derivatives. <i>Chinese Journal of Organic Chemistry</i> , 2017 , 37, 218	3	5
29	Gold Catalyzed Cyclopropanation/[5+3] Cycloaddition of 1,4,9- and 1,4,10-Allenynes to Bicyclo[3.3.1]nonane Derivatives. <i>Advanced Synthesis and Catalysis</i> , 2020 , 362, 1084-1095	5.6	5
28	Defluorinative phosphorylation of perfluoroalkyl ketones: synthesis of fluoroalkylated and phosphorylated furan derivatives. <i>Organic Chemistry Frontiers</i> , 2021 , 8, 1503-1509	5.2	5
27	Efficient preparation of unsymmetrical disulfides by nickel-catalyzed reductive coupling strategy.. <i>Nature Communications</i> , 2022 , 13, 2588	17.4	5
26	Fe-S Catalyst Generated In Situ from Fe(III)- and S-Promoted Aerobic Oxidation of Terminal Alkenes. <i>Organic Letters</i> , 2021 , 23, 4705-4709	6.2	4

25	Pd-Catalyzed One-Pot Two-Step Synthesis of 2-(1H-indol-3-yl)-2-phenylindolin-3-ones from 2-Alkynyl Arylazides and Indoles. <i>ChemistrySelect</i> , 2018 , 3, 11696-11699	1.8	4
24	Catalyst- and additive-free Baeyer-Villiger-type oxidation of β -hydroxycyclopentenones to β -pyrones: using air as the oxidant. <i>Green Chemistry</i> , 2019 , 21, 5611-5615	1.0	3
23	Copper(II)-catalyzed preparation of alkylindium compounds and applications in cross-coupling reactions both in aqueous media. <i>Tetrahedron Letters</i> , 2019 , 60, 151288	2	3
22	Iodine-Catalyzed Allylic Alkylation of Thiols with Allylic Alcohols. <i>Synlett</i> , 2008 , 2008, 2204-2208	2.2	3
21	Progress of Nucleophilic Substitution of Allylic Alcohols. <i>Chinese Journal of Organic Chemistry</i> , 2015 , 35, 2049	3	3
20	Transition-Metal-Free Decarboxylative Cyclization of α -Arylacrylamides with 2,2-Difluoro-2-(phenylthio)acetic Acid: Synthesis of Thiodifluorooxindole Derivatives. <i>Journal of Organic Chemistry</i> , 2021 , 86, 8437-8447	4.2	3
19	Nickel-Catalyzed Reductive Thiolation of Unactivated Alkyl Bromides and Arenesulfonyl Cyanides. <i>Journal of Organic Chemistry</i> , 2021 , 86, 8970-8979	4.2	3
18	Bismuth trichloride-catalyzed oxy-Michael addition of water and alcohol to α,β -unsaturated ketones. <i>Chinese Chemical Letters</i> , 2020 , 31, 1297-1300	8.1	3
17	An efficient Bi/NH ₄ I-mediated addition reaction for the highly diastereoselective synthesis of homoallylic alcohols in aqueous media. <i>Chinese Chemical Letters</i> , 2020 , 31, 391-395	8.1	3
16	Cobalt(II)-catalyzed preparation of alkylindium reagents and applications in cross-coupling with aryl halides. <i>Catalysis Communications</i> , 2019 , 132, 105824	3.2	2
15	Pharmacophore modeling for the identification of small-molecule inhibitors of TACE. <i>Methods</i> , 2015 , 71, 92-7	4.6	2
14	Catalytic Enantioselective [2+2] Cycloaddition of α -Halo Acroleins: Construction of Cyclobutanes Containing Two Tetrasubstituted Stereocenters. <i>Angewandte Chemie</i> , 2020 , 132, 22074-22078	3.6	2
13	An efficient synthesis of 4,5-diaryl-3,4-dihydropyrimidin-2(1H)-one a cesium carbonate-promoted direct condensation of 1-aryl-2-propanone with 1,1S(arylmethylene)diurea.. <i>RSC Advances</i> , 2020 , 10, 30062-30068	3.7	2
12	Stereoselective synthesis of fluoroalkylated (Z)-alkene via nickel-catalyzed and iron-mediated hydrofluoroalkylation of alkynes. <i>Organic Chemistry Frontiers</i> ,	5.2	2
11	Cesium carbonate-catalyzed indium insertion into alkyl iodides and their synthetic utilities in cross-coupling reactions. <i>Applied Organometallic Chemistry</i> , 2019 , 33, e5110	3.1	1
10	A Ni(II)-catalyzed reductive cross-coupling reaction of oxalates and thiosulfonates/selenosulfonates. <i>Organic Chemistry Frontiers</i> , 2022 , 9, 731-736	5.2	1
9	Visible-Light-Triggered Sulfonylation/Aryl Migration/Desulfonylation and C-S/Se Bond Formation Reaction: 1,2,4-Trifunctionalization of Butenyl Benzothiazole Sulfone with Thiosulfonate/Selenosulfonates. <i>Organic Letters</i> , 2021 , 23, 8246-8251	6.2	1
8	Synthesis of 2-Phosphoryl-3-Monofluorovinylindoles under Catalyst- and Additive-Free Conditions. <i>Advanced Synthesis and Catalysis</i> , 2021 , 363, 3496	5.6	1

7	Sc(OTf)-Catalyzed C2-Selective Cyanation/Defluorination Cascade of Perfluoroalkylated 3-Indolylmethanols and Application to the Synthesis of 3-Fluoro(perfluoroalkyl)- β -carboline. <i>Organic Letters</i> , 2021 , 23, 7666-7671	6.2	1
6	Palladium-catalyzed cross-coupling of alkylindium reagent with diaryliodonium salt. <i>Tetrahedron Letters</i> , 2022 , 95, 153729	2	1
5	Iron(0)-Mediated Henry-Type Reaction of Bromonitromethane with Aldehydes for the Efficient Synthesis of 2-Nitro-alkan-1-ols. <i>Chinese Journal of Organic Chemistry</i> , 2022 , 42, 235	3	0
4	Cobalt-catalyzed cross-coupling of nitrogen-containing heterocyclic phosphonium salts with arylmagnesium reagents. <i>Tetrahedron Letters</i> , 2022 , 92, 153662	2	0
3	Gold-Catalyzed Sequential Cycloisomerization of 1,3,9-Ene-allene-ynes to Fused Spirocarbocycles. <i>European Journal of Organic Chemistry</i> , 2020 , 2020, 5227-5233	3.2	0
2	NaI/TBHP-promoted reaction of indole-2-thiones with arylsulfonyl hydrazides: construction of achiral axial 3,3'-biindole-2,2'-dibenzene-sulfonylthioate derivatives. <i>Organic Chemistry Frontiers</i> , 2021 , 8, 5383-5388	5.2	0
1	Gold- and Brønsted Acid-Catalysed Deacyloxylation and Cycloaromatization of 1,6-Diyne Esters to 11 H-Benzo[<i>a</i>]fluorenes and 13 H-Indeno[1,2- <i>l</i>]phenanthrenes. <i>Advanced Synthesis and Catalysis</i> , 2022 , 364, 1313-1318	5.6	0