

Rh-catalyzed C–C bond cleavage by transfer hydrogenation

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Rapid Asymmetric Transfer Hydroformylation (ATHF) of Disubstituted Alkenes Using Paraformaldehyde as a Syngas Surrogate. <i>Chemistry - A European Journal</i> , 2015, 21, 10645-10649.	1.7	35
4	The Retro-Hydroformylation Reaction. <i>Angewandte Chemie</i> , 2015, 127, 8578-8581.	1.6	11
5	The Retro-Hydroformylation Reaction. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8458-8461.	7.2	51
6	Rh(I)-catalyzed decarbonylation synthesis of carbazoles via C-N cleavage. <i>Tetrahedron</i> , 2015, 71, 4035-4038.	1.0	12
7	Mechanisms and stereoselectivities of the Rh-catalyzed carbenoid carbon insertion reaction of benzocyclobutenol with diazoester. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 6587-6597.	1.5	36
8	Preparation of Rh/C and its high electro-catalytic activity for ethanol oxidation in alkaline media. <i>RSC Advances</i> , 2015, 5, 91829-91835.	1.7	24
9	Construction and deconstruction of aldehydes by transfer hydroformylation. <i>Science</i> , 2015, 347, 29-30.	6.0	29
10	Rh-catalyzed reagent-free ring expansion of cyclobutenones and benzocyclobutenones. <i>Chemical Science</i> , 2015, 6, 5440-5445.	3.7	61
11	Mechanistic Study on Ligand-Controlled Rh(I)-Catalyzed Coupling Reaction of Alkene-Benzocyclobutenone. <i>ACS Catalysis</i> , 2015, 5, 4881-4889.	5.5	34
12	Selectfluor-Mediated Simultaneous Cleavage of C=O and C=C Bonds in β,β -Epoxy Ketones Under Transition-Metal-Free Conditions: A Route to 1,2-Diketones. <i>Journal of Organic Chemistry</i> , 2015, 80, 6856-6863.	1.7	26
13	Rh-catalyzed decarbonylation of conjugated ynones via carbon-alkyne bond activation: reaction scope and mechanistic exploration via DFT calculations. <i>Chemical Science</i> , 2015, 6, 3201-3210.	3.7	64
14	Accessible protocol for asymmetric hydroformylation of vinylarenes using formaldehyde. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 4632-4636.	1.5	37
15	Cobalt(III)-Catalyzed Functionalization of Unstrained Carbon-Carbon Bonds through β -Carbon Cleavage of Alcohols. <i>ACS Catalysis</i> , 2015, 5, 6458-6462.	5.5	77
16	Visible-Light-Promoted Photoredox Syntheses of β,β -Epoxy Ketones from Styrenes and Benzaldehydes under Alkaline Conditions. <i>Organic Letters</i> , 2015, 17, 5260-5263.	2.4	74
17	Theoretical studies of nickel-catalyzed ring-opening hydroacylation of methylenecyclopropanes and benzaldehydes. <i>Journal of Molecular Modeling</i> , 2015, 21, 203.	0.8	1
18	Reverse-hydroformylation: a missing reaction explored. <i>Organic Chemistry Frontiers</i> , 2015, 2, 1422-1424.	2.3	3
19	Observation of Spontaneous C=C Bond Breaking in the Reaction between Atomic Boron and Ethylene in Solid Neon. <i>Angewandte Chemie</i> , 2016, 128, 8511-8514.	1.6	3
20	Observation of Spontaneous C=C Bond Breaking in the Reaction between Atomic Boron and Ethylene in Solid Neon. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8371-8374.	7.2	9

#	ARTICLE	IF	CITATIONS
21	Chemoselective dehydrogenative esterification of aldehydes and alcohols with a dimeric rhodium(Rh_2) catalyst. <i>Chemical Science</i> , 2016, 7, 4428-4434.	3.7	75
23	Cleavage of a C–C σ bond between two phenyl groups under mild conditions during the construction of $\text{Zn}(\text{N})_2$ organic frameworks. <i>Green Chemistry</i> , 2016, 18, 5418-5422.	4.6	14
24	Catalytic Transfer Functionalization through Shuttle Catalysis. <i>ACS Catalysis</i> , 2016, 6, 7528-7535.	5.5	93
25	Catalytic $\text{C}=\text{C}$ Allylation of Indoles by Electronic Modulation of the Indole Ring and its Application to the Synthesis of Functionalized Carbazoles. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 3458-3470.	2.1	28
26	Photocatalytic C–C Bond Cleavage and Amination of Cycloalkanols by Cerium(III) Chloride Complex. <i>Angewandte Chemie</i> , 2016, 128, 15545-15548.	1.6	59
27	Photocatalytic C–C Bond Cleavage and Amination of Cycloalkanols by Cerium(III) Chloride Complex. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15319-15322.	7.2	242
28	C-C bond cleavage: Metal-free-catalyzed reaction of Betti bases with various heterocycles under microwave irradiation. <i>Synthetic Communications</i> , 2016, 46, 1940-1946.	1.1	9
29	Substituent effect and ligand exchange control the reactivity in ruthenium(II)-catalyzed hydroacylation of isoprenes and aldehydes – A DFT study. <i>Journal of Theoretical and Computational Chemistry</i> , 2016, 15, 1650019.	1.8	3
30	Catalytic reversible alkene-nitrile interconversion through controllable transfer hydrocyanation. <i>Science</i> , 2016, 351, 832-836.	6.0	251
31	A molecular shuttle for hydrogen cyanide. <i>Science</i> , 2016, 351, 817-817.	6.0	11
32	Mechanism of Rhodium-Catalyzed Formyl Activation: A Computational Study. <i>Journal of Organic Chemistry</i> , 2016, 81, 2320-2326.	1.7	25
33	Mechanisms and reactivity differences for the cobalt-catalyzed enantioselective intramolecular hydroacylation of ketones and alkenes: insights from density functional calculations. <i>Journal of Molecular Modeling</i> , 2016, 22, 60.	0.8	6
34	Iron-catalyzed aerobic oxidative cleavage of the C–C σ -bond using air as the oxidant: chemoselective synthesis of carbon chain-shortened aldehydes, ketones and 1,2-dicarbonyl compounds. <i>Chemical Communications</i> , 2016, 52, 489-492.	2.2	36
35	Transition-metal-catalyzed transfer carbonylation with HCOOH or HCHO as non-gaseous C1 source. <i>Coordination Chemistry Reviews</i> , 2017, 336, 43-53.	9.5	119
36	Mechanisms of the transfer hydroformylation catalyzed by rhodium, cobalt, and iridium complexes: Insights from density functional theory study. <i>Journal of Organometallic Chemistry</i> , 2017, 833, 71-79.	0.8	8
37	Shuttle Catalysis – New Strategies in Organic Synthesis. <i>Chemistry - A European Journal</i> , 2017, 23, 12004-12013.	1.7	57
38	Mechanisms for nickel(0)/N-heterocyclic carbene-catalyzed intramolecular alkene hydroacylation: insights from a DFT study. <i>Journal of Molecular Modeling</i> , 2017, 23, 11.	0.8	6
39	Rhodium-Catalyzed Hydrofunctionalization: Enantioselective Coupling of Indolines and 1,3-Dienes. <i>Journal of the American Chemical Society</i> , 2017, 139, 1774-1777.	6.6	142

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40	Palladium-Catalyzed Hydrohalogenation of 1,6-Enynes: Hydrogen Halide Salts and Alkyl Halides as Convenient HX Surrogates. <i>Journal of the American Chemical Society</i> , 2017, 139, 3546-3557.	6.6	88
41	Nickel-Catalyzed Decarbonylation of Aromatic Aldehydes. <i>Journal of Organic Chemistry</i> , 2017, 82, 4924-4929.	1.7	38
42	Merging C-H and C-C bond cleavage in organic synthesis. <i>Nature Reviews Chemistry</i> , 2017, 1, .	13.8	145
43	Mechanism for ruthenium hydride-catalyzed regioselective hydroacylation of enones and aldehydes to give 1,3-diketones: Insights from density functional calculations. <i>Molecular Catalysis</i> , 2017, 433, 55-61.	1.0	3
44	Theoretical Studies for Switching Regioselectivity in Ruthenium Hydride-Catalyzed Alkyne Hydroacylation. <i>ChemistrySelect</i> , 2017, 2, 2858-2865.	0.7	1
45	Nickel-catalysed retro-hydroamidocarbonylation of aliphatic amides to olefins. <i>Nature Communications</i> , 2017, 8, 14993.	5.8	79
46	Rhodium-Complex-Catalyzed Hydroformylation of Olefins with CO ₂ and Hydrosilane. <i>Angewandte Chemie</i> , 2017, 129, 316-319.	1.6	21
47	Rhodium-Complex-Catalyzed Hydroformylation of Olefins with CO ₂ and Hydrosilane. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 310-313.	7.2	117
48	CO- and HCl-free synthesis of acid chlorides from unsaturated hydrocarbons via shuttle catalysis. <i>Nature Chemistry</i> , 2017, 9, 1105-1109.	6.6	84
49	Palladium-Catalyzed Deformylation Reactions with Detailed Experimental and in Silico Mechanistic Studies. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 4168-4174.	1.2	15
50	Iron-catalyzed C-C bond activation/C-O bond formation: Direct conversion of ketones to esters. <i>Tetrahedron Letters</i> , 2017, 58, 4667-4671.	0.7	7
51	Mechanistic Insight into Weak Base-Catalyzed Generation of Carbon Monoxide from Phenyl Formate and Its Application to Catalytic Carbonylation at Room Temperature without Use of External Carbon Monoxide Gas. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 3592-3601.	2.1	19
52	Transfer Hydrocyanation by Nickel(0)/Lewis Acid Cooperative Catalysis, Mechanism Investigation, and Computational Prediction of Shuttle Catalysts. <i>Organometallics</i> , 2017, 36, 2746-2754.	1.1	29
55	Mechanism of Rhodium-Catalyzed C-H Functionalization: Advances in Theoretical Investigation. <i>Accounts of Chemical Research</i> , 2017, 50, 2799-2808.	7.6	203
56	Asymmetric Hydroformylation Using Rhodium. <i>Topics in Organometallic Chemistry</i> , 2017, , 99-143.	0.7	8
57	Cobalt Catalysis for Enantioselective Cyclobutanone Construction. <i>Journal of the American Chemical Society</i> , 2017, 139, 10208-10211.	6.6	82
58	Toward a mild dehydroformylation using base-metal catalysis. <i>Chemical Science</i> , 2017, 8, 1954-1959.	3.7	35
59	One-Pot Synthesis of Deuterated Aldehydes from Arylmethyl Halides. <i>Organic Letters</i> , 2018, 20, 1712-1715.	2.4	23

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60	Furan-2-carbaldehydes as C1 building blocks for the synthesis of quinazolin-4(3 <i>H</i>)-ones via ligand-free photocatalytic C–C bond cleavage. <i>Green Chemistry</i> , 2018, 20, 2449-2454.	4.6	15
61	Conquering amide planarity: Structural distortion and its hidden reactivity. <i>Tetrahedron Letters</i> , 2018, 59, 1147-1158.	0.7	48
62	Isodesmic Reactions in Catalysis – Only the Beginning?. <i>Israel Journal of Chemistry</i> , 2018, 58, 94-103.	1.0	22
63	Intramolecular Acetyl Transfer to Olefins by Catalytic C–C Bond Activation of Unstrained Ketones. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 475-479.	7.2	45
64	Intramolecular Acetyl Transfer to Olefins by Catalytic C–C Bond Activation of Unstrained Ketones. <i>Angewandte Chemie</i> , 2018, 130, 484-488.	1.6	9
65	Featuring Xantphos. <i>Catalysis Science and Technology</i> , 2018, 8, 26-113.	2.1	97
66	Cerium-Catalyzed Formal Cycloaddition of Cycloalkanols with Alkenes through Dual Photoexcitation. <i>Journal of the American Chemical Society</i> , 2018, 140, 13580-13585.	6.6	162
67	Cooperative Palladium/Lewis Acid-Catalyzed Transfer Hydrocyanation of Alkenes and Alkynes Using 1-Methylcyclohexa-2,5-diene-1-carbonitrile. <i>Journal of the American Chemical Society</i> , 2018, 140, 16353-16359.	6.6	69
68	Rhodium(III)-Catalyzed C–H Vinylation of Arenes: Access to Functionalized Styrenes. <i>Chinese Journal of Chemistry</i> , 2018, 36, 1143-1146.	2.6	22
69	Merging base-promoted C–C bond cleavage and iron-catalyzed skeletal rearrangement involving C–C/C–H bond activation: synthesis of highly functionalized carbazoles. <i>Chemical Communications</i> , 2018, 54, 11009-11012.	2.2	19
70	Mechanism for Co(dppp)-catalyzed regioselective intermolecular hydroacylation of 1,3-dienes and benzaldehydes: Insights from density functional calculations. <i>Journal of Organometallic Chemistry</i> , 2018, 868, 102-111.	0.8	7
71	Rh nanoparticles from thiolate dimers: selective and reusable hydrogenation catalysts in ionic liquids. <i>Catalysis Science and Technology</i> , 2018, 8, 4373-4382.	2.1	13
72	Tandem Catalysis: Transforming Alcohols to Alkenes by Oxidative Dehydroxymethylation. <i>Journal of the American Chemical Society</i> , 2018, 140, 10126-10130.	6.6	42
73	A Rh-Catalyzed Air and Moisture Tolerable Aldehyde (Ketone)-Directed Fluorosulfonylvinylation of Aryl C(sp ²)–H Bonds. <i>Organic Letters</i> , 2018, 20, 4699-4703.	2.4	59
74	Transition-Metal-Catalyzed Decarbonylative Coupling Reactions: Concepts, Classifications, and Applications. <i>Chemistry - A European Journal</i> , 2018, 24, 7794-7809.	1.7	106
75	Direct Synthesis of Structurally Divergent Indole Alkaloids from Simple Chemicals. <i>Chinese Journal of Chemistry</i> , 2018, 36, 815-818.	2.6	20
76	Contra-thermodynamic Olefin Isomerization by Chain-Walking Hydrofunctionalization and Formal Retro-hydrofunctionalization. <i>Organic Letters</i> , 2019, 21, 7129-7133.	2.4	11
77	Direct synthesis of 8-acylated quinoline N-oxides via palladium-catalyzed selective C–H activation and C(sp ²)–C(sp ²) cleavage. <i>New Journal of Chemistry</i> , 2019, 43, 1667-1670.	1.4	25

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78	Density Functional Computations for Co(I)-Catalyzed Intermolecular Hydroacylation of Benzaldehydes. <i>ChemistrySelect</i> , 2019, 4, 11315-11320.	0.7	1
79	Copper Nanoparticle Catalysed Aerobic Oxidation of α -pinene. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 546, 042023.	0.3	3
80	Modular Access to Eight-Membered N-Heterocycles by Directed Carbonylative C-C Bond Activation of Aminocyclopropanes. <i>Angewandte Chemie</i> , 2019, 131, 19020-19024.	1.6	5
81	C-C Bond Cleavage by the Reaction of Cyclic Amines or Indoles with Activated Olefins: A Redox-Neutral Mechanism for the Reducing Action of Tetrahydroisoquinolines. <i>ChemistrySelect</i> , 2019, 4, 10425-10429.	0.7	4
82	Modular Access to Eight-Membered N-Heterocycles by Directed Carbonylative C-C Bond Activation of Aminocyclopropanes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18844-18848.	7.2	25
83	Synthesis of Biaryls via Decarbonylative Palladium-Catalyzed Suzuki-Miyaura Cross-Coupling of Carboxylic Acids. <i>IScience</i> , 2019, 19, 749-759.	1.9	71
84	Copper Catalyzed Oxidative C-C Bond Cleavage of 1,2-Diketones: A Divergent Approach to 1,8-Naphthalimides, Biphenyl-2,2'-dicarboxamides, and N-Heterocyclic Amides. <i>Journal of Organic Chemistry</i> , 2019, 84, 2112-2125.	1.7	10
86	Real-time electrochemical ATR-SEIRAS investigation of CO adsorption and oxidation on Rh electrode in 0.1 M NaOH and 0.1 M H ₂ SO ₄ . <i>Journal of Electroanalytical Chemistry</i> , 2019, 840, 462-467.	1.9	5
87	Bioinspired Metal-Free Formal Decarbonylation of α -Branched Aliphatic Aldehydes at Ambient Temperature. <i>Chemistry - A European Journal</i> , 2019, 25, 8508-8512.	1.7	11
88	Syntheses and Catalytic Hydrogenation Performance of Cationic Bis(phosphine) Cobalt(I) Diene and Arene Compounds. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9194-9198.	7.2	65
89	Syntheses and Catalytic Hydrogenation Performance of Cationic Bis(phosphine) Cobalt(I) Diene and Arene Compounds. <i>Angewandte Chemie</i> , 2019, 131, 9292-9296.	1.6	28
90	Highly-chemoselective step-down reduction of carboxylic acids to aromatic hydrocarbons via palladium catalysis. <i>Chemical Science</i> , 2019, 10, 5736-5742.	3.7	45
91	Copper-Catalyzed Radical Acyl-Cyanation of Alkenes with Mechanistic Studies on the tert-Butoxy Radical. <i>ACS Catalysis</i> , 2019, 9, 5191-5197.	5.5	50
92	A Concise Synthesis of rac-Ambroxol® via the Palladium(0)-Catalyzed Carboalkoxylation of an Allylic Ammonium Salt, as Compared to a Formaldehyde Hetero Diels-Alder Approach. <i>Helvetica Chimica Acta</i> , 2019, 102, e1900097.	1.0	2
93	Metal-Free Aerobic Oxidative Selective C-C Bond Cleavage in Heteroaryl-Containing Primary and Secondary Alcohols. <i>Organic Letters</i> , 2019, 21, 3028-3033.	2.4	26
94	Rhodium(I)-Catalyzed Aryl C-H Carboxylation of 2-Arylanilines with CO ₂ . <i>Organic Letters</i> , 2019, 21, 3663-3669.	2.4	65
95	Hydrofunctionalization of Olefins to Higher Aliphatic Alcohols via Visible-Light Photocatalytic Coupling. <i>Catalysis Letters</i> , 2019, 149, 1651-1659.	1.4	3
96	Potential-Dependent Selectivity of Ethanol Complete Oxidation on Rh Electrode in Alkaline Media: A Synergistic Study of Electrochemical ATR-SEIRAS and IRAS. <i>ACS Catalysis</i> , 2019, 9, 4046-4053.	5.5	82

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97	Deacylative transformations of ketones via aromatization-promoted C=C bond activation. <i>Nature</i> , 2019, 567, 373-378.	13.7	135
98	Syngas-Free Highly Regioselective Rhodium-Catalyzed Transfer Hydroformylation of Alkynes to β,γ -Unsaturated Aldehydes. <i>Angewandte Chemie</i> , 2019, 131, 7518-7522.	1.6	8
99	Syngas-Free Highly Regioselective Rhodium-Catalyzed Transfer Hydroformylation of Alkynes to β,γ -Unsaturated Aldehydes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7440-7444.	7.2	38
100	Alkenyl Exchange of Allylamines via Nickel(0)-Catalyzed C=C Bond Cleavage. <i>Journal of the American Chemical Society</i> , 2019, 141, 2889-2893.	6.6	43
101	Catalytic Isofunctional Reactions—Expanding the Repertoire of Shuttle and Metathesis Reactions. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10074-10103.	7.2	87
102	Katalytische, isofunktionelle Reaktionen—Erweiterung des Repertoires an Shuttle- und Metathesereaktionen. <i>Angewandte Chemie</i> , 2019, 131, 10178-10209.	1.6	17
103	Iron-Catalyzed Radical Acyl-Azidation of Alkenes with Aldehydes: Synthesis of Unsymmetrical β -Azido Ketones. <i>Organic Letters</i> , 2019, 21, 256-260.	2.4	41
105	From alkylarenes to anilines via site-directed carbon-carbon amination. <i>Nature Chemistry</i> , 2019, 11, 71-77.	6.6	102
106	Transformations of N-arylpropiolamides to indoline-2,3-diones and acids via C \equiv C triple bond oxidative cleavage and C(sp ²)-H functionalization. <i>Science China Chemistry</i> , 2020, 63, 222-227.	4.2	13
107	Selective C-C Bond Scission of Ketones via Visible-Light-Mediated Cerium Catalysis. <i>Chem</i> , 2020, 6, 266-279.	5.8	94
108	Mechanistic Study on Ring-Contracting Skeletal Rearrangement from Porphycene to Isocorrole by Experimental and Theoretical Methods. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 1811-1816.	1.2	2
109	Iridium-Catalyzed Hydrochlorination and Hydrobromination of Alkynes by Shuttle Catalysis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2904-2910.	7.2	42
110	Iridium-katalysierte Hydrochlorierung und Hydrobromierung von Alkinen durch Shuttlekatalyse. <i>Angewandte Chemie</i> , 2020, 132, 2926-2932.	1.6	13
111	Decarbonylative ether dissection by iridium pincer complexes. <i>Chemical Science</i> , 2020, 11, 12130-12138.	3.7	8
112	Palladium-Catalyzed Oxidative Dehydrosilylation for Contra-Thermodynamic Olefin Isomerization. <i>ACS Catalysis</i> , 2020, 10, 8736-8741.	5.5	9
113	Atroposelective Synthesis of Axially Chiral N-Arylpyrroles by Chiral Rhodium Catalysis. <i>Angewandte Chemie</i> , 2020, 132, 13654-13658.	1.6	22
114	Synthesis of indoline-fused eight-membered azaheterocycles through Zn-catalyzed dearomatization of indoles and subsequent base-promoted C=C activation. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 6916-6926.	1.5	5
115	Ethanol Electrooxidation on Rhodium-Lead Catalysts in Alkaline Media: High Mass Activity, Long-Term Durability, and Considerable CO Selectivity. <i>Small</i> , 2020, 16, e2004380.	5.2	35

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116	Selective valorization of lignin to phenol by direct transformation of C _{sp2} and C _{sp3} and C=O bonds. <i>Science Advances</i> , 2020, 6, .	4.7	62
117	Palladium/Copper Cocatalyzed C-H Activation and C-C Bond Regioselective Cleavage Reaction for the Synthesis of Fused Chromeno Quinolines. <i>Organic Letters</i> , 2020, 22, 8860-8865.	2.4	12
118	Catalyst-free photodecarbonylation of ortho-amino benzaldehyde. <i>Green Chemistry</i> , 2020, 22, 3421-3426.	4.6	9
119	Overcoming Selectivity Issues in Reversible Catalysis: A Transfer Hydrocyanation Exhibiting High Kinetic Control. <i>Journal of the American Chemical Society</i> , 2020, 142, 10914-10920.	6.6	37
120	Atroposelective Synthesis of Axially Chiral N-Arylpyrroles by Chiral Rhodium Catalysis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13552-13556.	7.2	66
121	Thioglycerol-Stabilized Rhodium Nanoparticles in Biphasic Medium as Catalysts in Multistep Reactions. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 2506-2511.	1.0	5
122	Enantioselective Cobalt-Catalyzed Intermolecular Hydroacylation of 1,6-Enynes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16409-16413.	7.2	44
123	Enantioselective Cobalt-Catalyzed Intermolecular Hydroacylation of 1,6-Enynes. <i>Angewandte Chemie</i> , 2020, 132, 16551-16555.	1.6	6
124	C-H/C-C Functionalization Approach to N-Fused Heterocycles from Saturated Azacycles. <i>Journal of the American Chemical Society</i> , 2020, 142, 13041-13050.	6.6	36
125	Rhodium-Catalyzed Transarylation of Benzamides: C-C Bond vs C-N Bond Activation. <i>ACS Catalysis</i> , 2020, 10, 3398-3403.	5.5	27
126	Ester Transfer Reaction of Aromatic Esters with Haloarenes and Arenols by a Nickel Catalyst. <i>ACS Catalysis</i> , 2020, 10, 3490-3494.	5.5	22
127	Åbergangsmetallvermittelte Spaltung von C-C-Einfachbindungen. <i>Angewandte Chemie</i> , 2020, 132, 19058-19080.	1.6	22
128	Transition Metal-Mediated C-C Single Bond Cleavage: Making the Cut in Total Synthesis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18898-18919.	7.2	100
129	Synthesis of Spiro[5.n (n=6-8)]heterocycles through Successive Ring-Expansion/Indole C2 Functionalization. <i>Advanced Synthesis and Catalysis</i> , 2020, 362, 1298-1302.	2.1	15
130	Palladium-catalyzed intermolecular transthioetherification of aryl halides with thioethers and thioesters. <i>Chemical Science</i> , 2020, 11, 2187-2192.	3.7	54
131	Alternative sources of syngas for hydroformylation of unsaturated compounds. <i>Russian Chemical Bulletin</i> , 2020, 69, 625-634.	0.4	10
132	Selective Decarbonylation via Transition-Metal-Catalyzed Carbon-Carbon Bond Cleavage. <i>Chemical Reviews</i> , 2021, 121, 365-411.	23.0	160
133	Visible Light Induced Bifunctional Rhodium Catalysis for Decarbonylative Coupling of Imides with Alkynes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 1583-1587.	7.2	29

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134	Visible Light Induced Bifunctional Rhodium Catalysis for Decarbonylative Coupling of Imides with Alkynes. <i>Angewandte Chemie</i> , 2021, 133, 1607-1611.	1.6	5
135	Merging shuttle reactions and paired electrolysis for reversible vicinal dihalogenations. <i>Science</i> , 2021, 371, 507-514.	6.0	127
136	Copper-catalyzed Beckmann-type fragmentation of less-strained cycloketoxime esters. <i>Organic Chemistry Frontiers</i> , 2021, 8, 2985-2989.	2.3	9
137	Teaching Aldehydes New Tricks Using Rhodium- and Cobalt-Hydride Catalysis. <i>Accounts of Chemical Research</i> , 2021, 54, 1236-1250.	7.6	42
138	A blueprint for green chemists: lessons from nature for sustainable synthesis. <i>Pure and Applied Chemistry</i> , 2021, 93, 537-549.	0.9	1
139	Synthesis of Spirocycles via Ni-Catalyzed Intramolecular Coupling of Thioesters and Olefins. <i>Chemistry - A European Journal</i> , 2021, 27, 7651-7656.	1.7	6
140	Aldehyde-Directed C(sp ²)-H Functionalization under Transition-Metal Catalysis. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 3868-3878.	2.1	17
141	Development and applications of selective hydroesterification reactions. <i>Trends in Chemistry</i> , 2021, 3, 469-484.	4.4	25
142	Ni-Catalyzed Aryl Sulfide Synthesis through an Aryl Exchange Reaction. <i>Journal of the American Chemical Society</i> , 2021, 143, 10333-10340.	6.6	50
143	Sustainable production of benzene from lignin. <i>Nature Communications</i> , 2021, 12, 4534.	5.8	100
144	Zn-Nx sites on N-doped carbon for aerobic oxidative cleavage and esterification of C(CO)-C bonds. <i>Nature Communications</i> , 2021, 12, 4823.	5.8	76
145	Arene C-H Iodination Using Aryl Iodides. <i>CCS Chemistry</i> , 2022, 4, 1889-1900.	4.6	21
146	Enolate-Based Regioselective Anti-Beckmann C-C Bond Cleavage of Ketones. <i>Journal of Organic Chemistry</i> , 2021, 86, 11608-11632.	1.7	3
147	Palladium-Catalyzed Cascade Carbonylation to \pm -Unsaturated Piperidones via Selective Cleavage of Carbon-Carbon Triple Bonds. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22393-22400.	7.2	14
148	Palladium-Catalyzed Cascade Carbonylation to \pm -Unsaturated Piperidones via Selective Cleavage of Carbon-Carbon Triple Bonds. <i>Angewandte Chemie</i> , 2021, 133, 22567-22574.	1.6	7
149	A donor-acceptor complex enables the synthesis of <i>E</i> -olefins from alcohols, amines and carboxylic acids. <i>Chemical Science</i> , 2021, 12, 6684-6690.	3.7	22
150	Palladium-catalysed carboformylation of alkynes using acid chlorides as a dual carbon monoxide and carbon source. <i>Nature Chemistry</i> , 2021, 13, 123-130.	6.6	21
151	Neutral chiral cyclopentadienyl Ru(<i>scp</i>)Cl catalysts enable enantioselective [2+2]-cycloadditions. <i>Chemical Science</i> , 2017, 8, 1862-1866.	3.7	54

#	ARTICLE	IF	CITATIONS
152	Pd-Catalyzed Double-Decarbonylative Aryl Sulfide Synthesis through Aryl Exchange between Amides and Thioesters. <i>Organic Letters</i> , 2021, 23, 8098-8103.	2.4	27
153	Enabling the Facile Synthesis of Arenes by Transition Metal Catalyzed Decarbonylation Methodology. <i>Chemical Record</i> , 2021, , .	2.9	3
154	Hydroformylation: Alternatives to Rh and Syn-gas. , 2021, , .		0
155	Towards gallium(III)-catalyzed aldehyde deformylation. <i>Inorganica Chimica Acta</i> , 2022, 531, 120708.	1.2	1
156	Olefination via Cu-Mediated Dehydroacylation of Unstrained Ketones. <i>Journal of the American Chemical Society</i> , 2021, 143, 20042-20048.	6.6	28
157	Visible-light-induced transition metal and photosensitizer free decarbonylative addition of amino-arylaldehydes to ketones. <i>Chemical Science</i> , 2022, 13, 698-703.	3.7	9
158	Contra-thermodynamic Olefin Isomerization by Chain-Walking Hydroboration and Dehydroboration. <i>Organic Letters</i> , 2022, 24, 1005-1010.	2.4	2
159	Copper-catalyzed thiocarbonylation and thiolation of alkyl iodides. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 1186-1190.	1.5	4
160	Development of an Operationally Simple, Scalable, and HCN-Free Transfer Hydrocyanation Protocol Using an Air-Stable Nickel Precatalyst. <i>Organic Process Research and Development</i> , 2022, 26, 1165-1173.	1.3	9
161	Iridium Dimer Anion-Mediated C ₂ Triple Bond Cleavage and Successive Dehydrogenation of Acetylene in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2022, 126, 1711-1717.	1.1	0
162	Selective, Transition Metal-free 1,2-Diboration of Alkyl Halides, Tosylates, and Alcohols. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	9
163	Carbon-based nucleophiles as leaving groups in organic synthesis via cleavage of C-C sigma bonds. <i>Tetrahedron</i> , 2022, 112, 132738.	1.0	1
164	Transfer C-H borylation of alkenes under Rh(I) catalysis: Insight into the synthetic capacity, mechanism, and selectivity control. <i>Chem Catalysis</i> , 2022, 2, 762-778.	2.9	6
165	Light-driven transition-metal-free direct decarbonylation of unstrained diaryl ketones via a dual C-C bond cleavage. <i>Nature Communications</i> , 2022, 13, 1805.	5.8	9
166	Selective Biocatalytic Defunctionalization of Raw Materials. <i>ChemSusChem</i> , 2022, 15, .	3.6	11
167	Transaminase-Mediated Amine Borrowing <i>via</i> Shuttle Biocatalysis. <i>Organic Letters</i> , 2022, 24, 74-79.	2.4	2
168	Metal-free hypervalent iodine-promoted tandem carbonyl migration and unactivated C(Ph)-C(Alkyl) bond cleavage for quinolone scaffold synthesis. <i>Chemical Communications</i> , 2022, 58, 8340-8343.	2.2	1
169	Rhodium-Catalyzed Deuterated Tsuji-Wilkinson Decarbonylation of Aldehydes with Deuterium Oxide. <i>Journal of the American Chemical Society</i> , 2022, 144, 11081-11087.	6.6	7

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170	Theoretical investigation on cobalt-catalyzed hydroacylation reaction: Mechanism and origin of stereoselectivity. <i>Molecular Catalysis</i> , 2022, 527, 112410.	1.0	7
171	Photoinduced ring-opening olefination of cycloalkanols and access to tunable cycloenones. <i>Chem Catalysis</i> , 2022, , .	2.9	1
172	Metal-Free Catalysis in C=C Single-Bond Cleavage: Achievements and Prospects. <i>Topics in Current Chemistry</i> , 2022, 380, .	3.0	3
173	Iron-catalyzed deconstructive alkylation through chlorine radical induced C=C single bond cleavage under visible light. <i>Chemical Communications</i> , 2022, 58, 9886-9889.	2.2	15
174	Boosting ethanol electrooxidation at RhBi alloy and Bi ₂ O ₃ composite surfaces in alkaline media. <i>Journal of Materials Chemistry A</i> , 2022, 10, 20946-20952.	5.2	6
175	Interfacial engineering Pb skin-layer at Rh surface to promote ethanol electrooxidation into CO ₂ in alkaline media. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 34932-34942.	3.8	2
176	Controlling Selectivity in Shuttle Heterodifunctionalization Reactions: Electrochemical Transfer Halothiolation of Alkynes. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	7
177	Kontrolle der Selektivität in Shuttle-Heterodifunktionalisierungen: Elektrochemische Transfer-Halothiolierung von Alkinen. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	3
178	Ligand enabled none-oxidative decarbonylation of aliphatic aldehydes. <i>Chinese Chemical Letters</i> , 2023, 34, 108027.	4.8	0
179	The Shuttle of Sulfur Dioxide: Iridium/Copper-Cocatalyzed Trifluoromethylfluorosulfonylation of Alkenes. <i>Advanced Synthesis and Catalysis</i> , 2023, 365, 301-306.	2.1	3
180	Cationic Rhodium(I)-Catalyzed Asymmetric Cyclohydroformylation of 1,6-Enynes with Formaldehyde. <i>Chemistry - an Asian Journal</i> , 2023, 18, .	1.7	2
181	Palladium-Catalyzed Enantioselective Isodesmic C-H Iodination of Phenylacetic Weinreb Amides. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	2
182	<i>Comprehensive Chirality</i> , 2022, , .		0
183	Practical and General Alcohol Deoxygenation Protocol. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	19
184	Practical and General Alcohol Deoxygenation Protocol. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	0
185	Photoinduced radical-ionic dihalogen transfer to carbon-carbon multiple bonds using oxime-based surrogates. , 2023, 2, 439-447.		6
186	Palladium-Catalyzed Enantioselective Isodesmic C-H Iodination of Phenylacetic Weinreb Amides. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	1
188	Pd/Xu-Phos-catalyzed asymmetric elimination of fully substituted enol triflates into axially chiral trisubstituted allenes. <i>Science Advances</i> , 2023, 9, .	4.7	6

#	ARTICLE	IF	CITATIONS
189	Controllable carbonyl-assisted C(sp ³)â€“C(sp ³) bond reduction and reorganization. <i>Organic Chemistry Frontiers</i> , 2023, 10, 2234-2242.	2.3	1
190	Unraveling the electrophilic oxygen-mediated mechanism for alcohol electrooxidation on NiO. <i>National Science Review</i> , 2023, 10, .	4.6	11