

Lutz Ackermann

List of Publications by Year in descending order

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645
papers

67,755
citations

511

128
h-index

1385

222
g-index

693
all docs

693
docs citations

693
times ranked

21280
citing authors

#	ARTICLE	IF	CITATIONS
1	Carboxylate-Assisted Transition-Metal-Catalyzed C-H Bond Functionalizations: Mechanism and Scope. <i>Chemical Reviews</i> , 2011, 111, 1315-1345.	47.7	3,087
2	Transition-Metal-Catalyzed Direct Arylation of (Hetero)Arenes by C-H Bond Cleavage. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9792-9826.	13.8	2,623
3	3d Transition Metals for C-H Activation. <i>Chemical Reviews</i> , 2019, 119, 2192-2452.	47.7	1,666
4	Carboxylate-Assisted Ruthenium-Catalyzed Alkyne Annulations by C-H/Het-H Bond Functionalizations. <i>Accounts of Chemical Research</i> , 2014, 47, 281-295.	15.6	1,518
5	Cobalt-Catalyzed C-H Activation. <i>ACS Catalysis</i> , 2016, 6, 498-525.	11.2	1,073
6	Weakly Coordinating Directing Groups for Ruthenium(II)-Catalyzed C-H Activation. <i>Advanced Synthesis and Catalysis</i> , 2014, 356, 1461-1479.	4.3	702
7	Ruthenium-catalyzed direct oxidative alkenylation of arenes through twofold C-H bond functionalization. <i>Chemical Science</i> , 2013, 4, 886-896.	7.4	568
8	Electrocatalytic C-H Activation. <i>ACS Catalysis</i> , 2018, 8, 7086-7103.	11.2	535
9	Manganese-Catalyzed C-H Activation. <i>ACS Catalysis</i> , 2016, 6, 3743-3752.	11.2	525
10	Transient Directing Groups for Transformative C-H Activation by Synergistic Metal Catalysis. <i>Chem</i> , 2018, 4, 199-222.	11.7	519
11	Metal-catalyzed direct alkylations of (hetero)arenes via C-H bond cleavages with unactivated alkyl halides. <i>Chemical Communications</i> , 2010, 46, 4866.	4.1	465
12	General and Efficient Indole Syntheses Based on Catalytic Amination Reactions. <i>Organic Letters</i> , 2005, 7, 439-442.	4.6	456
13	Ruthenium-Catalyzed Oxidative Annulation by Cleavage of C-H/Ni-H Bonds. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6379-6382.	13.8	440
14	Comparative Investigation of Ruthenium-Based Metathesis Catalysts Bearing N-Heterocyclic Carbene (NHC) Ligands. <i>Chemistry - A European Journal</i> , 2001, 7, 3236-3253.	3.3	432
15	meta-Selective C-H Bond Alkylation with Secondary Alkyl Halides. <i>Journal of the American Chemical Society</i> , 2013, 135, 5877-5884.	13.7	431
16	Metalla-electrocatalyzed C-H Activation by Earth-Abundant 3d Metals and Beyond. <i>Accounts of Chemical Research</i> , 2020, 53, 84-104.	15.6	431
17	Ruthenium Carbene Complexes with N,N-Bis(mesityl)imidazol-2-ylidene Ligands: RCM Catalysts of Extended Scope. <i>Journal of Organic Chemistry</i> , 2000, 65, 2204-2207.	3.2	430
18	Ruthenium carbene complexes with imidazol-2-ylidene ligands allow the formation of tetrasubstituted cycloalkenes by RCM. <i>Tetrahedron Letters</i> , 1999, 40, 4787-4790.	1.4	417

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19	Catalytic Arylation Reactions by C–H Bond Activation with Aryl Tosylates. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 2619-2622.	13.8	379
20	Cooperative Self-Assembly of Double-Strand Conjugated Porphyrin Ladders. <i>Journal of the American Chemical Society</i> , 1999, 121, 11538-11545.	13.7	366
21	Assisted Ruthenium-Catalyzed C–H Bond Activation: Carboxylic Acids as Cocatalysts for Generally Applicable Direct Arylations in Apolar Solvents. <i>Organic Letters</i> , 2008, 10, 2299-2302.	4.6	365
22	Catalytic Arylations with Challenging Substrates: From Air-Stable HASPO Preligands to Indole Syntheses and C–H Bond Functionalizations. <i>Synlett</i> , 2007, 2007, 0507-0526.	1.8	363
23	C–H nitrogenation and oxygenation by ruthenium catalysis. <i>Chemical Communications</i> , 2014, 50, 29-39.	4.1	359
24	Phosphine Oxides as Preligands in Ruthenium-Catalyzed Arylations via C–H Bond Functionalization Using Aryl Chlorides. <i>Organic Letters</i> , 2005, 7, 3123-3125.	4.6	358
25	Cationic Ruthenium(II) Catalysts for Oxidative C–H/N–H Bond Functionalizations of Anilines with Removable Directing Group: Synthesis of Indoles in Water. <i>Organic Letters</i> , 2012, 14, 764-767.	4.6	349
26	Ruthenium-Catalyzed C–H/N–O Bond Functionalization: Green Isoquinolone Syntheses in Water. <i>Organic Letters</i> , 2011, 13, 6548-6551.	4.6	348
27	Cobalt-Catalyzed C–H Arylations, Benzylations, and Alkylations with Organic Electrophiles and Beyond. <i>Journal of Organic Chemistry</i> , 2014, 79, 8948-8954.	3.2	341
28	Late-stage C–H functionalization offers new opportunities in drug discovery. <i>Nature Reviews Chemistry</i> , 2021, 5, 522-545.	30.2	341
29	Organic Electrochemistry: Molecular Syntheses with Potential. <i>ACS Central Science</i> , 2021, 7, 415-431.	11.3	335
30	Enantioselective C–H Activation with Earth-Abundant 3d Transition Metals. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12803-12818.	13.8	330
31	Copper-Catalyzed Click-Reaction/Direct Arylation Sequence: Modular Syntheses of 1,2,3-Triazoles. <i>Organic Letters</i> , 2008, 10, 3081-3084.	4.6	320
32	Palladium-Catalyzed Direct Arylations of Heteroarenes with Tosylates and Mesylates. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 201-204.	13.8	318
33	Recent advances in positional-selective alkenylations: removable guidance for twofold C–H activation. <i>Organic Chemistry Frontiers</i> , 2017, 4, 1435-1467.	4.5	316
34	Ruthenium-Catalyzed Oxidative C–H Bond Alkenylations in Water: Expedient Synthesis of Annulated Lactones. <i>Organic Letters</i> , 2011, 13, 4153-4155.	4.6	309
35	<i>N</i> -Acyl Amino Acid Ligands for Ruthenium(II)-Catalyzed <i>meta</i> -C–H <i>tert</i> -Alkylation with Removable Auxiliaries. <i>Journal of the American Chemical Society</i> , 2015, 137, 13894-13901.	13.7	308
36	Cobalt-Catalyzed C–H Cyanation of Arenes and Heteroarenes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3635-3638.	13.8	303

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37	Ruthenium-Catalyzed Regioselective Direct Alkylation of Arenes with Unactivated Alkyl Halides through C-H Bond Cleavage. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6045-6048.	13.8	301
38	Electrochemical Cobalt-Catalyzed C-H Oxygenation at Room Temperature. <i>Journal of the American Chemical Society</i> , 2017, 139, 18452-18455.	13.7	298
39	Robust Ruthenium(II)-Catalyzed C-H Arylations: Carboxylate Assistance for the Efficient Synthesis of Angiotensin-II-Receptor Blockers. <i>Organic Process Research and Development</i> , 2015, 19, 260-269.	2.7	278
40	C-H activation. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	21.2	277
41	Ruthenium-Catalyzed Direct C-H Bond Arylations of Heteroarenes. <i>Organic Letters</i> , 2011, 13, 3332-3335.	4.6	274
42	Domino N-H/C-H Bond Activation: Palladium-Catalyzed Synthesis of Annulated Heterocycles Using Dichloro(hetero)arenes. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1627-1629.	13.8	270
43	Powering the Future: How Can Electrochemistry Make a Difference in Organic Synthesis?. <i>CheM</i> , 2020, 6, 2484-2496.	11.7	270
44	NMDA spikes enhance action potential generation during sensory input. <i>Nature Neuroscience</i> , 2014, 17, 383-390.	14.8	267
45	Versatile Synthesis of Isocoumarins and α -Pyrone by Ruthenium-Catalyzed Oxidative C-H/O-H Bond Cleavages. <i>Organic Letters</i> , 2012, 14, 930-933.	4.6	262
46	Late-Stage Peptide Diversification by Position-Selective C-H Activation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14700-14717.	13.8	262
47	Mechanistic Insight into Direct Arylations with Ruthenium(II) Carboxylate Catalysts. <i>Organic Letters</i> , 2010, 12, 5032-5035.	4.6	256
48	Manganese-Catalyzed C-H Alkynylation: Expedient Peptide Synthesis and Modification. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3172-3176.	13.8	253
49	Nickel-Catalyzed C-H Alkylations: Direct Secondary Alkylations and Trifluoroethylations of Arenes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2477-2480.	13.8	252
50	Ruthenium-Catalyzed Oxidative C-H Alkenylations of Anilides and Benzamides in Water. <i>Organic Letters</i> , 2012, 14, 728-731.	4.6	245
51	Iron-Catalyzed C(sp ²)-H and C(sp ³)-H Arylation by Triazole Assistance. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3868-3871.	13.8	244
52	Full Selectivity Control in Cobalt(III)-Catalyzed C-H Alkylations by Switching of the C-H Activation Mechanism. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10378-10382.	13.8	243
53	Ruthenium(II)-Catalyzed C-H Activation/Alkyne Annulation by Weak Coordination with O ₂ as the Sole Oxidant. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5513-5517.	13.8	241
54	Cobalt-Catalyzed Direct Arylation and Benzoylation by C-H/C-O Cleavage with Sulfamates, Carbamates, and Phosphates. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 8251-8254.	13.8	238

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55	Regioselective syntheses of fully-substituted 1,2,3-triazoles: the CuAAC/C–H bond functionalization nexus. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 4503.	2.8	237
56	Efficient Aryl-(Hetero)Aryl Coupling by Activation of C–Cl and C–F Bonds Using Nickel Complexes of Air-Stable Phosphine Oxides. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 7216-7219.	13.8	230
57	Electrochemical C–H Amination by Cobalt Catalysis in a Renewable Solvent. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5090-5094.	13.8	225
58	Ruthenium-Catalyzed Direct Arylations Through C–H Bond Cleavages. <i>Topics in Current Chemistry</i> , 2009, 292, 211-229.	4.0	221
59	Electrochemical C–H/N–H Activation by Water-Tolerant Cobalt Catalysis at Room Temperature. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2383-2387.	13.8	219
60	Air- and Moisture-Stable Secondary Phosphine Oxides as Preligands in Catalysis. <i>Synthesis</i> , 2006, 2006, 1557-1571.	2.3	218
61	Oxazolonyl-Assisted C–H Amidation by Cobalt(III) Catalysis. <i>ACS Catalysis</i> , 2016, 6, 793-797.	11.2	216
62	Electroremovable Traceless Hydrazides for Cobalt-Catalyzed Electro-Oxidative C–H/N–H Activation with Internal Alkynes. <i>Journal of the American Chemical Society</i> , 2018, 140, 7913-7921.	13.7	212
63	Merging allylic carbon–hydrogen and selective carbon–carbon bond activation. <i>Nature</i> , 2014, 505, 199-203.	27.8	207
64	Use of Group 4 Bis(sulfonamido) Complexes in the Intramolecular Hydroamination of Alkynes and Allenes. <i>Journal of the American Chemical Society</i> , 2003, 125, 11956-11963.	13.7	206
65	Carboxylate-Assisted Ruthenium-Catalyzed Direct Alkylations of Ketimines. <i>Organic Letters</i> , 2011, 13, 1875-1877.	4.6	204
66	Aromatic and antiaromatic ring currents in a molecular nanoring. <i>Nature</i> , 2017, 541, 200-203.	27.8	204
67	Ruthenium-Catalyzed Oxidative Synthesis of 2-Pyridones through C–H/N–H Bond Functionalizations. <i>Organic Letters</i> , 2011, 13, 3278-3281.	4.6	199
68	Palladium-Catalyzed Direct Arylations, Alkenylations, and Benzylations through C–H Bond Cleavages with Sulfamates or Phosphates as Electrophiles. <i>Organic Letters</i> , 2010, 12, 724-726.	4.6	197
69	Heterogeneous catalytic approaches in C–H activation reactions. <i>Green Chemistry</i> , 2016, 18, 3471-3493.	9.0	192
70	Olefin Metathesis in Supercritical Carbon Dioxide. <i>Journal of the American Chemical Society</i> , 2001, 123, 9000-9006.	13.7	186
71	Cobalt(III)-Catalyzed Aryl and Alkenyl C–H Aminocarbonylation with Isocyanates and Acyl Azides. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8551-8554.	13.8	185
72	Ruthenium(II)-Catalyzed <i>meta</i> C–H Mono- and Difluoromethylations by Phosphine/Carboxylate Cooperation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2045-2049.	13.8	183

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73	Ruthenium-catalyzed aerobic oxidative coupling of alkynes with 2-aryl-substituted pyrroles. <i>Chemical Science</i> , 2012, 3, 177-180.	7.4	182
74	Versatile Pyrrole Synthesis through Ruthenium(II)-Catalyzed Alkene C-H Bond Functionalization on Enamines. <i>Organic Letters</i> , 2013, 15, 176-179.	4.6	180
75	Cobalt(III)-Catalyzed C-H/NiO Functionalizations: Isohyptic Access to Isoquinolines. <i>Chemistry - A European Journal</i> , 2015, 21, 15525-15528.	3.3	180
76	Manganese(I)-Catalyzed Substitutive C-H Allylation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7747-7750.	13.8	178
77	Electrooxidative Rhodium-Catalyzed C-H/C-H Activation: Electricity as Oxidant for Cross-Dehydrogenative Alkenylation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5828-5832.	13.8	178
78	Electrooxidative Ruthenium-Catalyzed C-H/O-H Annulation by Weak π -O π -Coordination. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5818-5822.	13.8	177
79	Enantioselective Cobalt(III)-Catalyzed C-H Activation Enabled by Chiral Carboxylic Acid Cooperation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15425-15429.	13.8	177
80	Enantioselective Palladium-Electrocatalyzed C-H Activation by Transient Directing Groups: Expedient Access to Helicenes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13451-13457.	13.8	177
81	Nickel-catalyzed alkyne annulation by anilines: versatile indole synthesis by C-H/N-H functionalization. <i>Chemical Communications</i> , 2013, 49, 6638.	4.1	176
82	Expedient Iron-Catalyzed C-H Allylation/Alkylation by Triazole Assistance with Ample Scope. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1484-1488.	13.8	176
83	Ruthenium(II)-Catalyzed Oxidative C-H Alkenylations of Sulfonic Acids, Sulfonyl Chlorides and Sulfonamides. <i>Chemistry - A European Journal</i> , 2014, 20, 15248-15251.	3.3	175
84	Overcoming the Limitations of C-H Activation with Strongly Coordinating N-Heterocycles by Cobalt Catalysis. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10386-10390.	13.8	174
85	Resource Economy by Metallaelectrocatalysis: Merging Electrochemistry and C-H Activation. <i>Trends in Chemistry</i> , 2019, 1, 63-76.	8.5	174
86	Transition-Metal-Catalyzed Carboxylation of C-H Bonds. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3842-3844.	13.8	173
87	Cobalt(II)-Catalyzed Oxidative C-H Alkenylations: Regio- and Site-Selective Access to Isoindolin-1-one. <i>ACS Catalysis</i> , 2015, 5, 2822-2825.	11.2	172
88	Expedient C-H Amidations of Heteroaryl Arenes Catalyzed by Versatile Ruthenium(II) Catalysts. <i>Organic Letters</i> , 2013, 15, 3286-3289.	4.6	170
89	Manganese-Catalyzed Synthesis of <i>cis</i> - α -Amino Acid Esters through Organometallic C-H Activation of Ketimines. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4092-4096.	13.8	170
90	Aldehyde-Assisted Ruthenium(II)-Catalyzed C-H Oxygenations. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11285-11288.	13.8	169

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91	Biomass-derived solvents as effective media for cross-coupling reactions and C-H functionalization processes. <i>Green Chemistry</i> , 2017, 19, 1601-1612.	9.0	169
92	Palladium-Catalyzed Direct Arylations of 1,2,3-Triazoles with Aryl Chlorides using Conventional Heating. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 741-748.	4.3	168
93	Cobalt-Catalyzed C-H Bond Functionalizations with Aryl and Alkyl Chlorides. <i>Chemistry - A European Journal</i> , 2013, 19, 10605-10610.	3.3	167
94	Mild C-H/C-C Activation by <i>Z</i> -Selective Cobalt Catalysis. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7408-7412.	13.8	166
95	Air-Stable PinP(O)H as Preligand for Palladium-Catalyzed Kumada Couplings of Unactivated Tosylates. <i>Organic Letters</i> , 2006, 8, 3457-3460.	4.6	165
96	Ruthenium(II)-Catalyzed Decarboxylative C-H Activation: Versatile Routes to <i>meta</i> -Alkenylated Arenes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6929-6932.	13.8	165
97	C-F/C-H Functionalization by Manganese(I) Catalysis: Expedient (Per)Fluoro-Allylations and Alkenylations. <i>ACS Catalysis</i> , 2017, 7, 4209-4213.	11.2	165
98	Ruthenium Oxidase Catalysis for Site-Selective C-H Alkenylations with Ambient O ₂ as the Sole Oxidant. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 264-267.	13.8	164
99	Cationic Ruthenium Catalysts for Alkyne Annulations with Oximes by C-H/N-O Functionalizations. <i>Journal of Organic Chemistry</i> , 2012, 77, 9190-9198.	3.2	163
100	Catalytic Direct Arylations in Polyethylene Glycol (PEG): Recyclable Palladium(0) Catalyst for C-H Bond Cleavages in the Presence of Air. <i>Organic Letters</i> , 2009, 11, 4922-4925.	4.6	162
101	Hydroxyl-Directed Ruthenium-Catalyzed C-H Bond Functionalization: Versatile Access to Fluorescent Pyrans. <i>Organic Letters</i> , 2012, 14, 3416-3419.	4.6	162
102	Ruthenium(IV) Alkylidenes as Precatalysts for Direct Arylations of Alkenes with Aryl Chlorides and an Application to Sequential Catalysis. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 6364-6367.	13.8	160
103	Ruthenium-Catalyzed C-H Bond Arylations of Arenes Bearing Removable Directing Groups via Six-Membered Ruthenacycles. <i>Organic Letters</i> , 2012, 14, 1154-1157.	4.6	160
104	Cobalt(III)-Catalyzed C-H Alkynylation with Bromoalkynes under Mild Conditions. <i>Organic Letters</i> , 2015, 17, 5316-5319.	4.6	160
105	Chelation-Assisted Arylation via C-H Bond Cleavage. <i>Topics in Organometallic Chemistry</i> , 2007, , 35-60.	0.7	158
106	Dehydrative Direct Arylations of Arenes with Phenols via Ruthenium-Catalyzed C-H and C-OH Bond Functionalizations. <i>Organic Letters</i> , 2008, 10, 5043-5045.	4.6	158
107	Metal-Free Direct Arylations of Indoles and Pyrroles with Diaryliodonium Salts. <i>Organic Letters</i> , 2011, 13, 2358-2360.	4.6	158
108	Expedient C-H Chalcogenation of Indolines and Indoles by Positional-Selective Copper Catalysis. <i>ACS Catalysis</i> , 2017, 7, 1030-1034.	11.2	158

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109	Selective Synthesis of Indoles by Cobalt(III)-Catalyzed C-H/N/O Functionalization with Nitrones. ACS Catalysis, 2016, 6, 2705-2709.	11.2	157
110	Carboxylate-Assisted Ruthenium(II)-Catalyzed Hydroarylations of Unactivated Alkenes through C-H Cleavage. Angewandte Chemie - International Edition, 2013, 52, 3977-3980.	13.8	154
111	Cobalt-catalysed C-H methylation for late-stage drug diversification. Nature Chemistry, 2020, 12, 511-519.	13.6	154
112	3d metallaelectrocatalysis for resource economical syntheses. Chemical Society Reviews, 2020, 49, 4254-4272.	38.1	150
113	Amidines for Versatile Cobalt(III)-Catalyzed Synthesis of Isoquinolines through C-H Functionalization with Diazo Compounds. Organic Letters, 2016, 18, 2742-2745.	4.6	147
114	A Highly Reactive Titanium Precatalyst for Intramolecular Hydroamination Reactions. Organic Letters, 2002, 4, 1475-1478.	4.6	146
115	<i>ortho</i> - and <i>para</i> -Selective Ruthenium-Catalyzed C(sp ²)-H Oxygenations of Phenol Derivatives. Organic Letters, 2013, 15, 3484-3486.	4.6	144
116	Regioselective Ruthenium-Catalyzed Direct Benzylations of Arenes through C-H Bond Cleavages. Organic Letters, 2009, 11, 4966-4969.	4.6	142
117	Well-Defined Ruthenium(II) Carboxylate as Catalyst for Direct C-H/C-O Bond Arylations with Phenols in Water. Organic Letters, 2012, 14, 2146-2149.	4.6	142
118	<i>meta</i> - and <i>para</i> -Selective C-H Functionalization by C-H Activation. Topics in Organometallic Chemistry, 2015, , 217-257.	0.7	142
119	Bioorthogonal Diversification of Peptides through Selective Ruthenium(II)-Catalyzed C-H Activation. Angewandte Chemie - International Edition, 2017, 56, 1576-1580.	13.8	140
120	Direct arylations of electron-deficient (hetero)arenes with aryl or alkenyl tosylates and mesylates. Chemical Communications, 2011, 47, 430-432.	4.1	139
121	Palladium-Catalyzed Dehydrogenative Direct Arylations of 1,2,3-Triazoles. Organic Letters, 2010, 12, 2056-2059.	4.6	138
122	Direct C-H bond arylations and alkenylations with phenol-derived fluorine-free electrophiles. Catalysis Science and Technology, 2013, 3, 562-571.	4.1	138
123	C4-H indole functionalisation: precedent and prospects. Chemical Science, 2018, 9, 4203-4216.	7.4	138
124	Oxidative Alkenylation of Aromatic Esters by Ruthenium-Catalyzed Twofold C-H Bond Cleavages. Organic Letters, 2012, 14, 4110-4113.	4.6	136
125	Heteromultimetallic catalysis for sustainable organic syntheses. Chemical Society Reviews, 2017, 46, 7399-7420.	38.1	135
126	Rotaxane-encapsulated cyanine dyes: enhanced fluorescence efficiency and photostability. Chemical Communications, 2000, , 905-906.	4.1	134

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127	Visible-Light-Enabled Ruthenium-Catalyzed <i>meta</i> -C ^α -H Alkylation at Room Temperature. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9820-9825.	13.8	134
128	Air-Stable Manganese(I)-Catalyzed C ^α -H Activation for Decarboxylative C ^α -H/C ^α -O Cleavages in Water. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6339-6342.	13.8	133
129	TiCl ₄ /t-BuNH ₂ as the sole catalyst for a hydroamination-based Fischer indole synthesis. <i>Tetrahedron Letters</i> , 2004, 45, 9541-9544.	1.4	131
130	Methylenecyclopropane Annulation by Manganese(I)-Catalyzed Stereoselective C ^α -H/C ^α -C Activation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9415-9419.	13.8	131
131	Electrophotocatalytic Undirected C ^α -H Trifluoromethylations of (Het)Arenes. <i>Chemistry - A European Journal</i> , 2020, 26, 3241-3246.	3.3	131
132	Ruthenium(II)-catalysed remote C ^α -H alkylations as a versatile platform to meta-decorated arenes. <i>Nature Communications</i> , 2017, 8, 15430.	12.8	130
133	Modular Diamino- and Dioxophosphine Oxides and Chlorides as Ligands for Transition-Metal-Catalyzed C ^α -C and C ^α -N Couplings with Aryl Chlorides. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2444-2447.	13.8	129
134	[RuCl ₃ (H ₂ O) _n]-catalyzed direct arylations. <i>Tetrahedron</i> , 2008, 64, 6115-6124.	1.9	129
135	Photoinduced Copper-Catalyzed C ^α -H Arylation at Room Temperature. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4759-4762.	13.8	129
136	Asymmetric Iron-Catalyzed C ^α -H Alkylation Enabled by Remote Ligand <i>meta</i> -Substitution. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14197-14201.	13.8	129
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