

Câ€“H Activation: Toward Sustainability and Application

ACS Central Science

7, 245-261

DOI: [10.1021/acscentsci.0c01413](https://doi.org/10.1021/acscentsci.0c01413)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Green strategies for transition metal-catalyzed C–H activation in molecular syntheses. <i>Organic Chemistry Frontiers</i> , 2021, 8, 4886-4913.	4.5	59
2	C–H bond functionalization by high-valent cobalt catalysis: current progress, challenges and future perspectives. <i>Chemical Communications</i> , 2021, 57, 10827-10841.	4.1	49
3	The emergence of the C–H functionalization strategy in medicinal chemistry and drug discovery. <i>Chemical Communications</i> , 2021, 57, 10842-10866.	4.1	52
4	Advancements in multifunctional manganese complexes for catalytic hydrogen transfer reactions. <i>Chemical Communications</i> , 2021, 57, 8534-8549.	4.1	41
5	Ethanol: Unlocking an Abundant Renewable C ₂ Feedstock for Catalytic Enantioselective C–C Coupling. <i>Angewandte Chemie</i> , 2021, 133, 10636-10640.	2.0	0
6	Construction of Highly Functionalized Xanthenes via Rh-Catalyzed Cascade C–H Activation/O ₂ -Annulation. <i>Organic Letters</i> , 2021, 23, 2465-2470.	4.6	22
7	Ethanol: Unlocking an Abundant Renewable C ₂ Feedstock for Catalytic Enantioselective C–C Coupling. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10542-10546.	13.8	14
8	Synthesis of Bidentate Nitrogen Ligands by Rh-Catalyzed C–H Annulation and Their Application to Pd-Catalyzed Aerobic C–H Alkenylation. <i>Organic Letters</i> , 2021, 23, 3657-3662.	4.6	24
9	Rh(III)-Catalyzed C–H Activation/[3 + 2] Annulation of N-Phenoxyacetamides via Carboxygenation of 1,3-Dienes. <i>Organic Letters</i> , 2021, 23, 3844-3849.	4.6	16
10	Traceless Directing Groups in Sustainable Metal-Catalyzed C–H Activation. <i>Catalysts</i> , 2021, 11, 554.	3.5	23
11	MIDA-directed meta-selective C–H functionalizations. <i>Trends in Chemistry</i> , 2021, 3, 512-513.	8.5	0
12	Metal-Catalyzed C(sp ²)–H Functionalization Processes of Phenylalanine- and Tyrosine-Containing Peptides. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 2928-2941.	2.0	20
13	Cobalt-Catalyzed C–H Activation and [3 + 2] Annulation with Allenes: Diastereoselective Synthesis of Indane Derivatives. <i>Organic Letters</i> , 2021, 23, 5018-5023.	4.6	17
14	Metal Nanoparticles as Sustainable Tools for C–N Bond Formation via C–H Activation. <i>Molecules</i> , 2021, 26, 4106.	3.8	8
15	Ru(II)-Catalyzed Controlled Cross-Dehydrogenative Coupling of Benzamides with Activated Olefins via Weakly Coordinating Primary Amides. <i>Journal of Organic Chemistry</i> , 2021, 86, 9744-9754.	3.2	10
16	Ru-Catalyzed C(sp ²)–H Bond Arylation of Benzamides Bearing a Novel 4-Aminoantipyrine as a Directing Group. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 3598-3603.	2.4	0
17	Cobalt(III)-Catalyzed C-6 Alkenylation of 2-Pyridones by Using Terminal Alkyne with High Regioselectivity. <i>Journal of Organic Chemistry</i> , 2021, 86, 9444-9454.	3.2	11
18	Infrared Irradiation-Assisted Solvent-Free Pd-Catalyzed (Hetero)aryl–aryl Coupling via C–H Bond Activation. <i>ChemSusChem</i> , 2021, 14, 3391-3401.	6.8	15

#	ARTICLE	IF	CITATIONS
19	Dual Photoredox/Cobaloxime Catalysis for Cross-Dehydrogenative α -Heteroarylation of Amines. <i>Organic Letters</i> , 2021, 23, 5378-5382.	4.6	9
20	C-H Bond Functionalization of Amines: A Graphical Overview of Diverse Methods. <i>SynOpen</i> , 2021, 05, 173-228.	1.7	40
21	Nucleophilic C-H Etherification of Heteroarenes Enabled by Base-Catalyzed Halogen Transfer. <i>Journal of the American Chemical Society</i> , 2021, 143, 12480-12486.	13.7	14
22	Copper-Catalyzed Intermolecular Functionalization of Unactivated C(sp ³)-H Bonds and Aliphatic Carboxylic Acids. <i>Journal of the American Chemical Society</i> , 2021, 143, 14667-14675.	13.7	36
23	Modern strategies for C-H functionalization of heteroarenes with alternative coupling partners. <i>CheM</i> , 2021, 7, 2585-2634.	11.7	63
24	Native Amine-Directed ortho-C-H Halogenation and Acetoxylation /Condensation of Benzylamines. <i>Synthesis</i> , 0, , .	2.3	5
25	Pd-Catalyzed Cyclization of Alkynyl Norbornene Derivatives for the Synthesis of Benzofused Heteroarenes. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 4883-4888.	4.3	9
26	Facile Synthesis of Alkylidene Phthalides by Rhodium-Catalyzed Domino C-H Acylation/Annulation of Benzamides with Aliphatic Carboxylic Acids. <i>Chemistry - A European Journal</i> , 2021, 27, 15628-15633.	3.3	1
27	TFA-Promoted/Rh(III)-Catalysed Chemoselective C3- or C2-H Functionalization of Indoles with Methylene-cyclopropanes. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 5507.	2.4	5
28	Selective Electrochemical Oxygenation of Alkylarenes to Carbonyls. <i>Organic Letters</i> , 2021, 23, 7445-7449.	4.6	19
29	Palladium-catalyzed cross-dehydrogenative-coupling of nitro-substituted internal alkenes with terminal alkenes. <i>Tetrahedron Letters</i> , 2021, 82, 153396.	1.4	3
30	Some trends in sustainable catalysis development. <i>Nachrichten Aus Der Chemie</i> , 2021, 69, 84-88.	0.0	0
31	Bromination and C-C Cross-Coupling Reactions for the C-H Functionalization of Iridium(III) Emitters. <i>Organometallics</i> , 2021, 40, 3211-3222.	2.3	6
32	Cobalt(III)-Catalyzed Diastereo- and Enantioselective Three-Component C-H Functionalization. <i>ACS Catalysis</i> , 2021, 11, 11938-11944.	11.2	44
33	Late-Stage C-H Acylation of Tyrosine-Containing Oligopeptides with Alcohols. <i>Organic Letters</i> , 2021, 23, 7279-7284.	4.6	15
34	Synthesis of Conjugated Polymers via Transition Metal Catalysed C-H Bond Activation. <i>Chemistry - an Asian Journal</i> , 2021, 16, 2896-2919.	3.3	12
35	Selective Benzylic C-H Borylations by Tandem Cobalt Catalysis. <i>Angewandte Chemie - International Edition</i> , 2021, , .	13.8	10
36	Selective Benzylic C-H Borylations by Tandem Cobalt Catalysis. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	3

#	ARTICLE	IF	CITATIONS
37	Influence of the amine donor on hybrid guanidine-stabilized Bis($\frac{1}{4}$ -oxido) dicopper(III) complexes and their tyrosinase-like oxygenation activity towards polycyclic aromatic alcohols. <i>Journal of Inorganic Biochemistry</i> , 2021, 224, 111541.	3.5	7
38	Green chemistry meets medicinal chemistry: a perspective on modern metal-free late-stage functionalization reactions. <i>Chemical Society Reviews</i> , 2021, 50, 10955-10982.	38.1	75
39	Sterically controlled C-H alkenylation of pyrroles and thiophenes. <i>Chemical Communications</i> , 2021, 57, 11791-11794.	4.1	10
40	Ruthenium-Catalyzed Sulfoalkenylation of Acetanilides and Dual-Use of the Catalyst Directing Group. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 5497-5506.	2.4	1
41	Furoxan Incorporation into C-H Bonds Enabling Nitrogen-Containing Functional Group Installation into the Same. <i>Journal of Organic Chemistry</i> , 2021, 86, 15807-15817.	3.2	4
42	Rhodium-Catalyzed Annulation of Phenacyl Ammonium Salts with Propargylic Alcohols via a Sequential Dual C-H and a C-C Bond Activation: Modular Entry to Diverse Isochromenones. <i>Organic Letters</i> , 2021, 23, 7888-7893.	4.6	18
43	Enantioselective Cross-Coupling of Electron-Deficient Alkenes via Ir-Catalyzed Vinylic sp^2 C-H Alkylation. <i>Organic Letters</i> , 2021, 23, 8158-8162.	4.6	14
44	Rhodium-Electrocatalyzed C-H Methylation and Paired Electrocatalyzed C-H Ethylation and Propylation. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	18
45	Synthesis of functionalized diarylbenzofurans via Ru-catalyzed C-H activation and cyclization under air: rapid access to the polycyclic scaffold of diptoindonesin G. <i>Organic Chemistry Frontiers</i> , 0, , .	4.5	2
46	Metal-free visible-light-promoted $C(sp^3)$ -H functionalization of aliphatic cyclic ethers using trace O_2 . <i>Green Chemistry</i> , 2021, 23, 9454-9459.	9.0	24
47	C-H Bond Activation Facilitated by Bis(phosphinoamide) Heterobimetallic Zr/Co Complexes. <i>Organometallics</i> , 2021, 40, 3689-3696.	2.3	4
48	Azolium Control of the Osmium-Promoted Aromatic C-H Bond Activation in 1,3-Disubstituted Substrates. <i>Organometallics</i> , 2021, 40, 3979-3991.	2.3	2
49	Effect of Pincer Methylation on the Selectivity and Activity in (PNP)Cobalt-Catalyzed $C(sp^2)$ -H Borylation. <i>Organometallics</i> , 2021, 40, 3766-3774.	2.3	7
50	Ortho C-H Functionalization of 2-Arylimidazo[1,2-a]pyridines. <i>Chemical Record</i> , 2021, , .	5.8	12
51	Role of Additives in Transition Metal Catalyzed C-H Bond Activation Reactions: A Computational Perspective. <i>Topics in Catalysis</i> , 2022, 65, 141-164.	2.8	10
52	Ir-catalyzed proximal and distal C-H borylation of arenes. <i>Chemical Communications</i> , 2021, 57, 13059-13074.	4.1	44
53	Cobalt-catalyzed highly diastereoselective [3 + 2] carboannulation reactions: facile access to substituted indane derivatives. <i>Chemical Communications</i> , 2022, 58, 1386-1389.	4.1	4
54	Synthesis of Natural Products by C-H Functionalization of Heterocycles. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	24

#	ARTICLE	IF	CITATIONS
55	Sustainable C–H functionalization under ball-milling, microwave-irradiation and aqueous media. <i>Green Chemistry</i> , 2022, 24, 2296-2320.	9.0	20
56	Nickel and Palladium Catalysis: Stronger Demand than Ever. <i>ACS Catalysis</i> , 2022, 12, 1180-1200.	11.2	77
57	Overcoming the Challenges toward Selective C(6)–H Functionalization of 2-Pyridone with Maleimide through Mn(I)-Catalyst: Easy Access to All-Carbon Quaternary Center. <i>Organic Letters</i> , 2022, 24, 848-852.	4.6	9
58	Synthesis of Benzylidenesuccinates through Rhodium(III)-Catalyzed C–H Alkenylation with Itaconate. <i>Asian Journal of Organic Chemistry</i> , 0, , .	2.7	4
59	Mechanistically Guided Workflow for Relating Complex Reactive Site Topologies to Catalyst Performance in C–H Functionalization Reactions. <i>Journal of the American Chemical Society</i> , 2022, 144, 1881-1898.	13.7	15
60	One-step synthesis of indolizino[3,4,5- <i>ab</i>]isoindoles by manganese-catalyzed C–H activation: structural studies and photophysical properties. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 796-800.	2.8	4
61	C(sp ³)–H Arylation Promoted by a Heterogeneous Palladium–N–Heterocyclic Carbene Complex in Batch and Continuous Flow. <i>ChemSusChem</i> , 2022, 15, .	6.8	11
62	Recent advances in transition-metal catalyzed directed C–H functionalization with fluorinated building blocks. <i>Organic Chemistry Frontiers</i> , 2022, 9, 1742-1775.	4.5	23
63	Cobalt-Catalyzed Enantioselective C–H Arylation of Indoles. <i>Journal of the American Chemical Society</i> , 2022, 144, 798-806.	13.7	77
64	Introduction to Spatial Anion Control for Direct C–H Arylation. <i>Synlett</i> , 2022, 33, 503-512.	1.8	2
65	DDQ-mediated oxidative coupling reaction of N,N-dimethyl enaminones with cycloheptatriene. <i>Tetrahedron Letters</i> , 2022, 90, 153609.	1.4	2
66	Green Chemistry in the Synthesis of Pharmaceuticals. <i>Chemical Reviews</i> , 2022, 122, 3637-3710.	47.7	155
67	Amine-directed Mizoroki–Heck arylation of free allylamines. <i>Organic Chemistry Frontiers</i> , 2022, 9, 1967-1974.	4.5	3
68	Native carboxyl group-assisted C–H acetoxylation of hydrocinnamic and phenylacetic acids. <i>Chemical Communications</i> , 2022, 58, 4993-4996.	4.1	3
69	Specific assembly of dihydrobenzofuran frameworks <i>via</i> Rh-catalysed C–H coupling of <i>N</i> -phenoxyacetamides with 2-alkenylphenols. <i>New Journal of Chemistry</i> , 2022, 46, 5705-5711.	2.8	3
70	Replacement of Less-Preferred Dipolar Aprotic and Ethereal Solvents in Synthetic Organic Chemistry with More Sustainable Alternatives. <i>Chemical Reviews</i> , 2022, 122, 6749-6794.	47.7	58
71	Redox-Neutral Ru(0)-Catalyzed Alkenylation of 2-Carboxaldimine-heterocyclopentadienes. <i>Journal of Organic Chemistry</i> , 2022, 87, 4640-4648.	3.2	10
72	Development of Cobalt Catalysts for the <i>meta</i> -Selective C(sp ²)–H Borylation of Fluorinated Arenes. <i>Journal of the American Chemical Society</i> , 2022, 144, 6465-6474.	13.7	21

#	ARTICLE	IF	CITATIONS
73	Circular Discovery in Small Molecule and Conjugated Polymer Synthetic Methodology. <i>Journal of the American Chemical Society</i> , 2022, 144, 6123-6135.	13.7	25
74	Câ€“H deuteration of organic compounds and potential drug candidates. <i>Chemical Society Reviews</i> , 2022, 51, 3123-3163.	38.1	85
75	Recent progress in rare-earth metal-catalyzed sp ² and sp ³ Câ€“H functionalization to construct Câ€“C and Câ€“heteroelement bonds. <i>Organic Chemistry Frontiers</i> , 2022, 9, 3102-3141.	4.5	20
76	Achiral Cp*Rh(III)/Chiral Lewis Base Cooperative Catalysis for Enantioselective Cyclization via Câ€“H Activation. <i>Journal of the American Chemical Society</i> , 2022, 144, 7058-7065.	13.7	24
77	Insights and Activation Energy Surface of the Dehydrogenation of C ₂ H _x O Species in Ethanol Oxidation Reaction on Ir(100). <i>ChemPhysChem</i> , 2022, 23, .	2.1	3
78	Mechanochemical Ruthenium-Catalyzed O<i>rtho</i>-Alkenylation of <i>N</i>-Heteroaryl Arenes with Alkynes under Ball-Milling Conditions. <i>Journal of Organic Chemistry</i> , 2022, 87, 5994-6005.	3.2	8
79	A Germanium Catalyst Accelerates the Photoredox Î±-C(sp ³)â€“H Alkylation of Primary Amines. <i>Organic Letters</i> , 2022, 24, 3325-3330.	4.6	3
80	Polyarylquinone Synthesis by Relayed Dehydrogenative [2 + 2 + 2] Cycloaddition. <i>ACS Catalysis</i> , 2022, 12, 6227-6237.	11.2	10
81	Chemo- and regioselective benzylic C(sp ³)â€“H oxidation bridging the gap between hetero- and homogeneous copper catalysis. <i>IScience</i> , 2022, 25, 104341.	4.1	4
82	Câ€“H Methylation Using Sustainable Approaches. <i>Catalysts</i> , 2022, 12, 510.	3.5	4
83	Divergent Regioselective Csp ² â€“H Difluoromethylation of Aromatic Amines Enabled by Nickel Catalysis. <i>Organic Letters</i> , 2022, 24, 3549-3554.	4.6	10
84	Different Chiral Ligands Assisted Enantioselective C-H Functionalization with Transition-Metal Catalysts. <i>Catalysts</i> , 2022, 12, 537.	3.5	2
85	Construction of Pyrrolocoumarin Cores through Double Câ€“H Annulation Cascade. <i>European Journal of Organic Chemistry</i> , 0, , .	2.4	5
86	A jackpot Câ€“H activation protocol using simple ruthenium catalyst in deep eutectic solvents. <i>Green Chemistry</i> , 2022, 24, 4941-4951.	9.0	9
88	C3â€“H Silylation of Furfural Derivatives: Direct Access to a Versatile Synthetic Platform Derived from Biomass. <i>Asian Journal of Organic Chemistry</i> , 0, , .	2.7	3
89	Palladium-Catalyzed Direct Câ€“H Alkenylation with Enol Pivalates Proceeds via Reversible Câ€“O Oxidative Addition to Pd(0). <i>ACS Catalysis</i> , 2022, 12, 6997-7003.	11.2	8
90	Catalyst- and Oxidizing Reagent-Free Electrochemical Benzylic C(sp ³)â€“H Oxidation of Phenol Derivatives. <i>Journal of Organic Chemistry</i> , 2022, 87, 7806-7817.	3.2	15
91	An Artificial Metalloenzyme Based on a Copper Heteroscorpionate Enables sp ³ Câ€“H Functionalization via Intramolecular Carbene Insertion. <i>Journal of the American Chemical Society</i> , 2022, 144, 11676-11684.	13.7	11

#	ARTICLE	IF	CITATIONS
92	Pyridine Nucleus as a Directing Group for Metal-Based C–H Bond Activation. , 0, , .		0
93	Photoinduced carbamoylation reactions: unlocking new reactivities towards amide synthesis. <i>Chemical Communications</i> , 2022, 58, 8322-8339.	4.1	11
94	Unlocking C–H Functionalization at Room Temperature via a Light-Mediated Protodemetalation Reaction. <i>ACS Catalysis</i> , 2022, 12, 8229-8236.	11.2	7
95	Synthesis, Attributes and Defect Control of Defect-Engineered Materials as Superior Adsorbents for Aqueous Species: A Review. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 0, , .	3.7	2
96	Synthesis and Mechanistic Investigation of Bipyrazolo[1,5- <i>a</i>]pyridines <i>via</i> Palladium-Catalyzed Cross-Dehydrogenative Coupling of Pyrazolo[1,5- <i>a</i>]pyridines. <i>Journal of Organic Chemistry</i> , 2022, 87, 9851-9863.	3.2	5
97	Triple Regioselective Functionalization of Cationic [4]Helicenes via Iridium-Catalyzed Borylation and Suzuki Cross-Coupling Reactivity. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	5
98	Binding of Dual-Function Hybridized Metal-Organic Capsules to Enzymes for Cascade Catalysis. <i>Jacs Au</i> , 0, , .	7.9	2
99	Redesigning Enzymes for Biocatalysis: Exploiting Structural Understanding for Improved Selectivity. <i>Frontiers in Molecular Biosciences</i> , 0, 9, .	3.5	8
100	Chemically Driven Rotatory Molecular Machines. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	6
101	<i>Ortho</i> -C–H Functionalizations of 2-Aryl- <i>H</i> -Indazoles. <i>Chemical Record</i> , 2022, 22, .	5.8	3
102	Diverse reactivity of alkynes in C–H activation reactions. <i>Chemical Communications</i> , 2022, 58, 10262-10289.	4.1	12
103	Chemically Driven Rotatory Molecular Machines. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	27
104	Rhodium-Promoted C–H Bond Activation of Quinoline, Methylquinolines, and Related Mono-Substituted Quinolines. <i>Organometallics</i> , 2022, 41, 2317-2326.	2.3	2
105	Diversification of (<i>E,E</i>)-1,6-Dioxo-2,4-Dienes for the Synthesis of (+)-Aspicillin, Isolaurepan, and β -Parinaric Acid. <i>Journal of Organic Chemistry</i> , 2022, 87, 11021-11030.	3.2	5
106	C–H Activation Based Functionalization of Furfural Derivatives. <i>European Journal of Organic Chemistry</i> , 2022, 2022, .	2.4	8
107	Can Second Coordination Sphere and Long-Range Interactions Modulate Hydrogen Atom Transfer in a Non-Heme Fe(II)-Dependent Histone Demethylase?. <i>Jacs Au</i> , 2022, 2, 2169-2186.	7.9	11
108	Substrate-Rhodium Cooperativity in Photoinduced <i>ortho</i> -Alkynylation of Arenes. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	5
109	Substrate-Rhodium Cooperativity in Photoinduced <i>ortho</i> -Alkynylation of Arenes. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	1

#	ARTICLE	IF	CITATIONS
110	Practical and sustainable preparation of pyrrolo[2,3- <i>b</i>]indoles by Cu/Fe catalyzed intramolecular C(sp ²)-H amination. <i>Green Chemistry</i> , 2022, 24, 7340-7345.	9.0	4
111	Cobalt-catalyzed C(sp ²)-H bond imination of phenylalanine derivatives. <i>Chemical Communications</i> , 2022, 58, 9754-9757.	4.1	3
112	Palladium-catalysed C(sp ³)-H functionalisation of unactivated 8-aminoquinoline amides in deep eutectic solvents. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 7071-7075.	2.8	5
113	Synthesis of alpha-pyrones and chromen-2-ones by transition-metal catalyzed annulations of sulfoxonium and iodonium ylides with <i>cis</i> -stilbene acids. <i>New Journal of Chemistry</i> , 0, , .	2.8	6
114	Recyclable rhodium-catalyzed C-H activation/[4 + 2] annulation with unconventional regioselectivity at ambient temperature: experimental development and mechanistic insight. <i>Green Chemistry</i> , 2022, 24, 7012-7021.	9.0	9
115	Transition-metal-catalyzed <i>ortho</i> -C-H functionalization of 2-arylquinoxalines. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 7361-7376.	2.8	6
116	Rhodium(III)-Catalyzed Triple Aryl/Alkenyl C-H Bond Activation of Aryl Enaminones to Access Naphtho[1,8- <i>bc</i>]pyrans. <i>Organic Letters</i> , 2022, 24, 7123-7127.	4.6	10
117	Exploiting photoredox catalysis for carbohydrate modification through C-H and C-C bond activation. <i>Nature Reviews Chemistry</i> , 2022, 6, 782-805.	30.2	18
118	Temperature-Controlled Selective Mono- vs. Di- <i>ortho</i> -Arylation for the Synthesis of Arylhydrazine Derivatives. <i>Chemistry - A European Journal</i> , 0, , .	3.3	0
119	Recent Advances in Room-Temperature Direct C-H Arylation Methodologies. <i>Synthesis</i> , 2023, 55, 1-26.	2.3	7
120	Iridium-Catalyzed Branch-Selective and Enantioselective Hydroalkenylation of $\hat{\pm}$ -Olefins through C-H Cleavage of Enamides. <i>Journal of the American Chemical Society</i> , 2022, 144, 17351-17358.	13.7	14
121	Palladium-Catalyzed Cascade Reaction in Water to Imidazo[1,2- <i>a</i>]pyridazines as Switchable DSEgens, AIEgens, and ACQgens**. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	8
122	The C-H Bond Activation Triggered by Subsurface Mo Dopant on MgO Catalyst in Oxidative Coupling of Methane. <i>Catalysts</i> , 2022, 12, 1083.	3.5	1
124	Rh(III)-catalyzed twofold unsymmetrical C-H alkenylation-annulation/amidation reaction enabled delivery of diverse furoquinazolinones. <i>Tetrahedron Letters</i> , 2022, 108, 154141.	1.4	1
126	Remote Editing of Stacked Aromatic Assemblies for Heteroannular C-H Functionalization by a Palladium Switch between Aromatic Rings. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	5
127	Remote Editing of Stacked Aromatic Assemblies for Heteroannular C-H Functionalization by a Palladium Switch between Aromatic Rings. <i>Angewandte Chemie</i> , 0, , .	2.0	0
128	Visible-Light Mediated Energy Transfer Enables the Synthesis of $\hat{\pm}$ -Lactams via Intramolecular Hydrogen Atom Transfer. <i>Angewandte Chemie</i> , 0, , .	2.0	1
133	Post-Modification of Amino Acids and Peptides for the Rapid Synthesis of <i>C</i> -Glycoamino Acids and <i>C</i> -Glycopeptides. <i>European Journal of Organic Chemistry</i> , 2022, 2022, .	2.4	4

#	ARTICLE	IF	CITATIONS
137	Visible-Light-Mediated Energy Transfer Enables the Synthesis of β -Lactams via Intramolecular Hydrogen Atom Transfer. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	10
141	Cobalt-catalysed acyl silane directed <i>ortho</i> -C-H functionalisation of benzoyl silanes. <i>Chemical Communications</i> , 2022, 58, 12604-12607.	4.1	5
142	Valorisation of phenols to coumarins through one-pot palladium-catalysed double C-H functionalizations. <i>Green Chemistry</i> , 2022, 24, 9094-9100.	9.0	3
143	Recent Progress in Transition Metal-Catalyzed C-H Bond Activation of <i>N</i> -Aryl Phthalazinones. <i>Chinese Journal of Organic Chemistry</i> , 2022, 42, 2682.	1.3	3
144	Regioselective Dichotomy in Ru(II)-Catalyzed C-H Annulation of Aryl Pyrazolidinones with 1,3-Diynes. <i>Journal of Organic Chemistry</i> , 2022, 87, 14103-14114.	3.2	3
145	Native Amide-Directed C(sp ³)-H Amidation Enabled by Electron-Deficient Rh(III) Catalyst and Electron-Deficient β -Pyridone Ligand. <i>Angewandte Chemie - International Edition</i> , 0, , .	13.8	6
146	Native Amide-Directed C(sp ³)-H Amidation Enabled by Electron-Deficient Rh(III) Catalyst and Electron-Deficient β -Pyridone Ligand. <i>Angewandte Chemie</i> , 0, , .	2.0	0
147	In Situ Quench Reactions of Enantioenriched Secondary Alkylolithium Reagents in Batch and Continuous Flow Using an I/Li-Exchange. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	13.8	6
148	Electrochemical Rhodium-Catalyzed C-H Cyclodimerization of Alkynes to Access Diverse Functionalized Naphthalenes: Involvement of Rh ^{IV/V} and Rh ^I Dual Catalysis. <i>Organic Letters</i> , 2022, 24, 7784-7789.	4.6	3
149	In situ Quenchreaktionen von enantiomerenangereicherten sekundären Alkylolithiumreagenzien im Kolben und im kontinuierlichen Durchfluss mittels eines I/Li-Austausch. <i>Angewandte Chemie</i> , 2023, 135, .	2.0	0
150	Protocol for chemo- and regioselective C(sp ³)-H activation using a heterogeneous copper powder-catalyzed reaction. <i>STAR Protocols</i> , 2022, 3, 101781.	1.2	0
151	Rh(III)-catalysed site-selective alkylation of β -carbolines/isoquinolines and tandem C-H/C-N functionalization to construct indolizine-indole frameworks. <i>Molecular Catalysis</i> , 2022, 533, 112783.	2.0	4
152	Synthesis of naphthalene-substituted aromatic esters <i>via</i> Rh(ⁱⁱⁱ)-catalyzed C-H bond naphthylation and cascade directing group transformation. <i>Chemical Communications</i> , 0, , .	4.1	2
153	Transition metal-catalyzed double C _{vinyl} -H bond activation: synthesis of conjugated dienes. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 9522-9588.	2.8	7
154	An asymmetric metal-templated route to amino acids with an isoquinolone core <i>via</i> a Rh(ⁱⁱⁱ)-catalyzed coupling of aryl hydroxamates with chiral propargylglycine Ni(ⁱⁱ) complexes. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 9385-9391.	2.8	4
155	Introducing Ion Mobility Mass Spectrometry to Identify Site-Selective C-H Bond Activation in N-Heterocyclic Carbene Metal Complexes. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 2291-2300.	2.8	2
156	Rhodium(III)-catalyzed Construction of β -Type Polyheteroaromatics with Fluorinated Benzothiadiazole as a Modifiable Acceptor Block. <i>Asian Journal of Organic Chemistry</i> , 0, , .	2.7	2
157	Selective functionalization of benzylic C(sp ³)-H bonds to synthesize complex molecules. <i>CheM</i> , 2022, 8, 3175-3201.	11.7	18

#	ARTICLE	IF	CITATIONS
179	Ligand-Dependent Selective Synthesis of Mono- and Dialkenylcarbazoles through Rhodium(III)-Catalyzed C-H Alkenylation. <i>Chemistry - an Asian Journal</i> , 0, , .	3.3	0
180	Propargyl Alcohols as Bifunctional Reagents for Divergent Annulations of Biphenylamines via Dual C-H Functionalization/Dual Oxidative Cyclization. <i>Angewandte Chemie</i> , 0, , .	2.0	0
181	Propargyl Alcohols as Bifunctional Reagents for Divergent Annulations of Biphenylamines via Dual C-H Functionalization/Dual Oxidative Cyclization. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	13.8	11
182	Pseudo-multicomponent 1,3-dipolar cycloaddition involving metal-free generation of unactivated azomethine ylides. <i>Organic and Biomolecular Chemistry</i> , 2023, 21, 1927-1936.	2.8	2
183	Catalyst-Controlled Nickel-Catalyzed Intramolecular <i>endo</i> -Selective C-H Cyclization of Benzimidazoles with Alkenes. <i>Organic Letters</i> , 2023, 25, 353-357.	4.6	6
184	Chemodivergent C(sp ³)-H and C(sp ²)-H cyanomethylation using engineered carbene transferases. <i>Nature Catalysis</i> , 2023, 6, 152-160.	34.4	6
185	Enroute sustainability: metal free C-H bond functionalisation. <i>Chemical Society Reviews</i> , 2023, 52, 2391-2479.	38.1	14
186	Improving the sustainability of the ruthenium-catalysed <i>N</i> -directed C-H arylation of arenes with aryl halides. <i>Green Chemistry</i> , 2023, 25, 2394-2400.	9.0	5
187	The Role of Anionic Ligands on Photoreactivity in Mo(VI) Dioxo Complexes of the Form MoO ₂ X ₂ (NN)**. <i>Chemistry - A European Journal</i> , 2023, 29, .	3.3	1
188	Recent Advances in Rhodium-Catalyzed Electrochemical C-H Activation. <i>Chemistry - an Asian Journal</i> , 2023, 18, .	3.3	3
189	Transition-metal-catalyzed C-H bond activation as a sustainable strategy for the synthesis of fluorinated molecules: an overview. <i>Beilstein Journal of Organic Chemistry</i> , 0, 19, 448-473.	2.2	3
190	Accelerating innovations in C-H activation/functionalization through intricately designed magnetic nanomaterials: From genesis to applicability in liquid/regio/photo catalysis. <i>Catalysis Communications</i> , 2023, 175, 106615.	3.3	5
191	Anaerobic Hydroxylation of C(sp ³)-H Bonds Enabled by the Synergistic Nature of Photoexcited Nitroarenes. <i>Journal of the American Chemical Society</i> , 2023, 145, 2794-2799.	13.7	23
192	Regioselective Pd-catalyzed decarboxylative C-6 acylation of 7-O-carbamate coumarins and their anti-inflammatory evaluation. <i>Tetrahedron</i> , 2023, 134, 133295.	1.9	1
193	Facile Ozonation of Light Alkanes to Oxygenates with High Atom Economy in Tunable Condensed Phase at Ambient Temperature. <i>Jacs Au</i> , 2023, 3, 498-507.	7.9	1
194	Diyne-steered switchable regioselectivity in cobalt(<i>scp</i>)-catalysed C(sp ²)-H activation of amides with unsymmetrical 1,3-diyne. <i>Organic and Biomolecular Chemistry</i> , 2023, 21, 1942-1951.	2.8	2
195	Iridium-Catalyzed Enantioselective Intermolecular Hydroarylation of 1,1-Disubstituted Alkenes. <i>Journal of Organic Chemistry</i> , 0, , .	3.2	1
196	Late-Stage Functionalisation of Pyridine-Containing Bioactive Molecules: Recent Strategies and Perspectives. <i>European Journal of Organic Chemistry</i> , 2023, 26, .	2.4	12

#	ARTICLE	IF	CITATIONS
197	Polystyrene Resins: Versatile and Economical Support for Heterogeneous Nanocatalysts in Sustainable Organic Reactions**. ChemCatChem, 2023, 15, .	3.7	1
198	Cationic Ruthenium for C-H Activation Reactions. Current Organic Chemistry, 2023, 27, 55-61.	1.6	2
199	Transition metal-catalyzed C ^α /C ^β activation and coupling with 1,3-diyne. Organic and Biomolecular Chemistry, 2023, 21, 2842-2869.	2.8	6
200	New Ligandless C ^α H Activation Procedure for The Decoration of C ^β Position of 1H-Indazole Derivatives. ChemistrySelect, 2023, 8, .	1.5	0
201	Transition Metal-Catalyzed C ^α H Functionalization Through Electrocatalysis. ChemSusChem, 2023, 16, .	6.8	7
202	Ru(II)-Catalyzed Regioselective Redox-Neutral [4 + 2] Annulation of <i>N</i> -Chlorobenzamides with 1,3-Diynes at Room Temperature for the Synthesis of Isoquinolones. Journal of Organic Chemistry, 2023, 88, 4704-4719.	3.2	4
203	Iron(III)-Catalyzed Regioselective Synthesis of Electron-Rich Benzothiazoles from Aryl Isothiocyanates via C ^α H Functionalization. Journal of Organic Chemistry, 2023, 88, 4458-4471.	3.2	3
204	Directing Group Repositioning Strategy Enabled Site- and Enantioselective Addition of Heteroaromatic C ^α H Bonds to Acyclic Internal Alkenes. Journal of the American Chemical Society, 2023, 145, 6861-6870.	13.7	9
205	Non-covalent interactions in transition metal-catalyzed para-selective C H functionalization of arenes. Advances in Organometallic Chemistry, 2023, , .	1.0	0
206	Transition-Metal-Catalyzed Directed C ⁸ H Carbon-Carbon Bond Formation in Quinolines and 1,2,3,4-Tetrahydroquinolines. Synthesis, 2023, 55, 3454-3469.	2.3	3
207	Mixed-Component Metal-Organic Framework for Boosting Synergistic Photoactivation of C(sp ³) ^α H and Oxygen. ACS Applied Materials & Interfaces, 2023, 15, 16744-16754.	8.0	7
208	Iron/Photosensitizer-Catalyzed Directed C ^α H Activation Triggered by the Formation of an Iron Metallacycle. ACS Catalysis, 2023, 13, 4552-4559.	11.2	5
209	Improving a Methane C ^α H Activation Complex by Metal and Ligand Alterations from Computational Results. Inorganic Chemistry, 2023, 62, 5058-5066.	4.0	0
210	Pd-Nanoparticles-Catalyzed C(sp ²) ^α H Arylation for the Synthesis of Functionalized Heterocycles: Recent Progress and Prospects. Synthesis, 2024, 56, 611-638.	2.3	2
211	Iron-Catalyzed C(sp ³) ^α H Borylation, Thiolation, and Sulfinylation Enabled by Photoinduced Ligand-to-Metal Charge Transfer. Journal of the American Chemical Society, 2023, 145, 7600-7611.	13.7	41
212	Metal-free photoinduced hydrogen atom transfer assisted C(sp ³) ^α H thioarylation. Green Chemistry, 2023, 25, 3431-3436.	9.0	7
213	Synthesis of Polysubstituted Furan Frameworks via [3 + 2] Annulation of <i>N</i> -Enoxyimides with Chelated Alkynes Initiated by Rh(III)-Catalyzed C ^α H Activation. Organic Letters, 2023, 25, 2394-2399.	4.6	1
214	Rh(III)-Catalyzed Alkylation of 8-Methylquinolines with Oxabenzonorbornadienes. Organic Letters, 2023, 25, 2627-2631.	4.6	6

#	ARTICLE	IF	CITATIONS
215	Heterocycles from Sulfur Ylides. <i>Topics in Heterocyclic Chemistry</i> , 2023, , 63-105.	0.2	1
216	Rh(III)-Catalyzed Cross Dehydrogenative Coupling of <i>N</i> -Phenyl Substituent with Thiophenes. <i>European Journal of Organic Chemistry</i> , 2023, 26, .	2.4	1
217	Synthesis of Fused Lactones through Transition-Metal-Catalyzed <i>peri</i> -C-H Functionalization. <i>Asian Journal of Organic Chemistry</i> , 2023, 12, .	2.7	1
218	Copper-catalyzed intramolecular annulation through C-H activation: Synthesis of Carbazolones. <i>Applied Organometallic Chemistry</i> , 0, , .	3.5	0
219	Redox-neutral C-H annulation strategies for the synthesis of heterocycles <i>via</i> high-valent Cp*Co(III) catalysis. <i>Organic and Biomolecular Chemistry</i> , 2023, 21, 3918-3941.	2.8	3
220	Iridium-Catalyzed Branch-Selective and Enantioselective C2-Alkylation of <i>N</i> -Benzimidazolyl Indoles. <i>Advanced Synthesis and Catalysis</i> , 2023, 365, 2013-2017.	4.3	1
221	Uncovering the Reactivity of Cobalt Catalyst Towards Regioselective Hydroarylation of 1,6-Diynes via Weak Chelation Assisted C-H Bond Activation. <i>Advanced Synthesis and Catalysis</i> , 2023, 365, 1977-1982.	4.3	1
222	A three component 1,3-difunctionalization of vinyl diazo esters enabled by a cobalt catalyzed C-H activation/carbene migratory insertion. <i>Chemical Communications</i> , 2023, 59, 6076-6079.	4.1	1
223	Reversible Deactivation of Manganese Catalysts in Alkene Oxidation and H ₂ O ₂ Disproportionation. <i>ACS Catalysis</i> , 2023, 13, 6403-6415.	11.2	3
224	Eco-friendly, green and new metal-free intramolecular Friedel-Crafts reaction to synthesis of Acridones derivatives using phenylboronic acid derivatives. <i>Tetrahedron Letters</i> , 2023, 123, 154532.	1.4	0
225	Green Aromatic Epoxidation with an Iron Porphyrin Catalyst for One-Pot Functionalization of Renewable Xylene, Quinoline, and Acridine. <i>Molecules</i> , 2023, 28, 3940.	3.8	1
226	Transition metal-catalyzed remote C-H borylation: An emerging synthetic tool. <i>Science Advances</i> , 2023, 9, .	10.3	16
227	Enantioselective Synthesis of 1,2-Benzothiazine Imines via Ru ^{II} /Chiral Carboxylic Acid-Catalyzed C-H Alkylation/Cyclization. <i>Angewandte Chemie</i> , 0, , .	2.0	0
228	Enantioselective Synthesis of 1,2-Benzothiazine Imines via Ru ^{II} /Chiral Carboxylic Acid-Catalyzed C-H Alkylation/Cyclization. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	13.8	4
229	Fast and Selective ¹² C-H Borylation of N-Heterocycles with a Supramolecular Iridium Catalyst: Circumventing Deactivation Pathways and Mechanistic Insights. <i>ACS Catalysis</i> , 2023, 13, 7715-7729.	11.2	6
230	Palladium-Catalyzed sp ³ C-H Acetoxylation of β,γ -Disubstituted α -Amino Acids. <i>Chemistry</i> , 2023, 5, 1369-1372.	2.2	0
231	The evolution of directing group strategies for C(sp) ³ -H activation. <i>Trends in Chemistry</i> , 2023, 5, 551-560.	8.5	2
232	Preparative Scale Applications of C-H Activation in Medicinal Chemistry. <i>Angewandte Chemie</i> , 0, , .	2.0	0

#	ARTICLE	IF	CITATIONS
233	Enantioselective C [∞] P Bond Formation through C([∞] sp ³) [∞] H Functionalization. <i>Advanced Synthesis and Catalysis</i> , 2023, 365, 2152-2158.	4.3	1
234	Preparative Scale Applications of C [∞] H Activation in Medicinal Chemistry. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	13.8	6
235	Regioselective Iridium [∞] Catalyzed C8 [∞] H Borylation of 4 [∞] Quinolones via Transient [∞] O [∞] Borylated Quinolines. <i>Chemistry - A European Journal</i> , 2023, 29, .	3.3	1
236	Photochemically Mediated Ring Expansion of Indoles and Pyrroles with Chlorodiazirines: Synthetic Methodology and Thermal Hazard Assessment. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	13.8	9
237	Photochemically Mediated Ring Expansion of Indoles and Pyrroles with Chlorodiazirines: Synthetic Methodology and Thermal Hazard Assessment. <i>Angewandte Chemie</i> , 2023, 135, .	2.0	2
238	Ru(II)-Catalyzed Weakly Coordinating Carbonyl-Assisted Dialkynylation of (Hetero)Aryl Ketones. <i>Journal of Organic Chemistry</i> , 2023, 88, 8542-8552.	3.2	2
239	Ru([∞] ii [∞])/Ru([∞] iv [∞])-catalyzed C([∞] sp ²) [∞] H allylation with alkene difunctionalization to access isochroman-1-imines. <i>Chemical Communications</i> , 2023, 59, 9497-9500.	4.1	1
240	Noble Metal versus Abundant Metal Catalysts in Fine Organic Synthesis: Cost Comparison of C [∞] H Activation Methods. <i>Organometallics</i> , 2023, 42, 1433-1438.	2.3	2
241	Insights into the effect of contact ion-pairs on C H bond activation for the synthesis of Ru(III)-NHC complexes: A combined experimental and computational study. <i>Journal of Organometallic Chemistry</i> , 2023, 998, 122802.	1.8	0
242	Theoretical Study on the Rhodium-Catalyzed Electrochemical C [∞] H Phosphorylation: Insights into the Effect of Electro-oxidation on the Reaction Mechanism. <i>ACS Catalysis</i> , 0, , 9352-9365.	11.2	1
243	Solar-powered P450 catalysis: Engineering electron transfer pathways from photosynthesis to P450s. <i>Journal of Inorganic Biochemistry</i> , 2023, 245, 112242.	3.5	2
244	Coupling of Heteroarene and Arenol via Nickel [∞] Catalyzed C [∞] H/C [∞] OH Activation. <i>ChemCatChem</i> , 2023, 15, .	3.7	0
245	C3-Alkylation of furfural derivatives by continuous flow homogeneous catalysis. <i>Beilstein Journal of Organic Chemistry</i> , 0, 19, 582-592.	2.2	0
246	Transition-Metal-Catalyzed C [∞] H Bond Activation for the Formation of C [∞] C Bonds in Complex Molecules. <i>Chemical Reviews</i> , 2023, 123, 7692-7760.	47.7	39
247	Photochemical reactions of a diamidocarbene: cyclopropanation of bromonaphthalene, addition to pyridine, and activation of sp ³ C [∞] H bonds. <i>Chemical Science</i> , 2023, 14, 7867-7874.	7.4	1
248	Os(II)-catalyzed [∞] 3-C(sp ³) [∞] H amidation and meta-C(sp ²) [∞] H alkylation by fine-tuning the characteristics of in-situ-generated C [∞] Os [∞] f bonds. <i>Cell Reports Physical Science</i> , 2023, 4, 101423.	5.6	1
249	Non [∞] covalent Interaction [∞] Controlled Site [∞] selective C [∞] H Transformations. <i>Chemical Record</i> , 0, , .	5.8	0
250	Skeletal Editing of (Hetero)Arenes Using Carbenes. <i>Chemistry - A European Journal</i> , 2023, 29, .	3.3	20

#	ARTICLE	IF	CITATIONS
251	Pyridine C(sp ²)â€“H bond functionalization under transition-metal and rare earth metal catalysis. <i>Beilstein Journal of Organic Chemistry</i> , 0, 19, 820-863.	2.2	1
252	Metal-Free Eliminative C-H Arylthiolation of 2H-Imidazole N-Oxides with Thiophenols. <i>Chemistry</i> , 2023, 5, 1477-1487.	2.2	0
254	Tunably strained metallacycles enable modular differentiation of aza-arene Câ€“H bonds. <i>Nature Communications</i> , 2023, 14, .	12.8	2
255	Rh(III)-Catalyzed Dienylation and Cyclopropylation of 1,2,3-Benzotriazinones with Alkylidenecyclopropanes. <i>Organic Letters</i> , 2023, 25, 5179-5184.	4.6	1
256	What enables and blocks synthetic chemistry methods in becoming industrially significant?. <i>Cell Reports Physical Science</i> , 2023, 4, 101493.	5.6	2
257	Transient Directing Group enabled C3â€“(sp ²)â€“H alkenylation of Five Membered Heterocyclic Aldehydes: An Access to Mechanochromic Luminogen. <i>Advanced Synthesis and Catalysis</i> , 0, , .	4.3	0
258	Chiral Phosphoric Acidâ€“Palladium(II) Complex Catalyzed Asymmetric Desymmetrization of Biaryl Compounds by C(sp ³)â€“H Activation. <i>Journal of the American Chemical Society</i> , 2023, 145, 15906-15911.	13.7	6
259	A general enantioselective Câ€“H arylation using an immobilized recoverable palladium catalyst. <i>ChemSusChem</i> , 0, , .	6.8	0
260	Enhancing Substrateâ€“Metal Catalyst Affinity via Hydrogen Bonding: Pd(II)-Catalyzed Î²-C(sp ³)â€“H Bromination of Free Carboxylic Acids. <i>Journal of the American Chemical Society</i> , 2023, 145, 16297-16304.	13.7	3
261	Rh-Catalyzed Twofold Conjugate Addition of 2-Arylimidazo[1,2- <i>a</i>]pyridines to <i>p</i> -Quinols To Access Bridged Scaffolds with Three Contiguous Stereocenters. <i>Journal of Organic Chemistry</i> , 0, , .	3.2	0
262	Recent Advances in Selective C-H Bonds Functionalization through Aryl RadicalMediated Hydrogen Atom Transfer Strategy. <i>Current Organic Chemistry</i> , 2023, 25, .	1.6	0
263	Cu-Mediated Tandem 2,3-Disubstituted Indole Synthesis from Simple Anilines and Internal Alkynes <i>via</i> Câ€“H Annulation. <i>Journal of Organic Chemistry</i> , 2023, 88, 10960-10973.	3.2	4
264	Green Chemistry Approach toward the Regioselective Synthesis of Î±,Î±-Disubstituted Allylic Amines. <i>Journal of Organic Chemistry</i> , 2023, 88, 11992-11999.	3.2	0
265	Theoretical Investigations of Palladiumâ€“Catalyzed [3+2] Annulation via Benzylic and <i>meta</i> Câ€“H Bond Activation. <i>Chemistry - an Asian Journal</i> , 2023, 18, .	3.3	4
266	Direct Arylation of Thiophenes in Continuous Flow. <i>ChemistrySelect</i> , 2023, 8, .	1.5	0
267	N-heterocyclic iminium ions catalyzed Friedelâ€“Crafts type alkenylation of arenes with alkynes: A metal free and solvent free approach. <i>Catalysis Communications</i> , 2023, 182, 106753.	3.3	0
268	Rhodium(III)â€“Catalyzed Câ€“H/Nâ€“H Activation for Direct Synthesis of Pyrimidoindolones under Mild Conditions. <i>Chemistry - an Asian Journal</i> , 2023, 18, .	3.3	1
269	Applications of copper and iron-catalyzed Csp ³ â€“Csp ³ cross-dehydrogenative coupling in organic synthesis. <i>Synthetic Communications</i> , 2023, 53, 1665-1700.	2.1	0

#	ARTICLE	IF	CITATIONS
270	Photoinduced ligand-to-iron charge transfer enabled C(sp ³)â€H phosphorylation of hydrocarbons. <i>Green Chemistry</i> , 2023, 25, 7817-7824.	9.0	1
271	Classic <i>vs.</i> Câ€H functionalization strategies in the synthesis of APIs: a sustainability comparison. <i>Green Chemistry</i> , 2023, 25, 7916-7933.	9.0	2
272	Organo-Se BTSAs-enabled performance: From racemic and asymmetric synthesis to click chemistry application. <i>CheM</i> , 2023, 9, 3335-3346.	11.7	9
273	Chemoselective C(sp)â€H borylation of terminal alkynes catalyzed by a bis(N-heterocyclicsilylene) manganese complex. <i>Inorganic Chemistry Frontiers</i> , 2023, 10, 6067-6076.	6.0	2
274	Synthesis of spiropyrans and arylquinones <i>via</i> Ru(<i>sc</i>)-catalyzed condition-controlled coupling of 3-aryl-2 <i>H</i> -benzoxazinones with benzoquinones. <i>Chemical Communications</i> , 2023, 59, 11704-11707.	4.1	3
275	Solvent-free and ball mill-free catalytic Câ€H methylation. <i>Green Chemistry</i> , 0, , .	9.0	0
276	Activation of robust bonds by carbonyl complexes of Mn, Fe and Co. <i>Chemical Communications</i> , 2023, 59, 11932-11946.	4.1	1
277	Radical cascade cyclization of 1, <i>n</i> -enynes under photo/electrochemical conditions. <i>Organic Chemistry Frontiers</i> , 2023, 10, 5735-5745.	4.5	4
278	Transition-metal-mediated C-C bond activation: Recent advances and its applications in organic synthesis. <i>Results in Chemistry</i> , 2023, 6, 101130.	2.0	0
279	Annulationâ€Induced Hidden Reactivity of the 1,2,4â€Triazole Backbone. <i>Angewandte Chemie</i> , 2023, 135, .	2.0	0
280	Annulationâ€Induced Hidden Reactivity of the 1,2,4â€Triazole Backbone. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	13.8	2
281	Bimetallic (or Multimetallic) Synthesis of N-Heterocycles. <i>Catalysts</i> , 2023, 13, 1268.	3.5	2
282	Cobalt(III)-Catalyzed Free-Amine-Directed Site-Selective Allylation in 2-Aminobiaryls with Vinyl Cyclopropanes. <i>ACS Catalysis</i> , 2023, 13, 12543-12552.	11.2	1
283	Transition-metal catalyzed Câ€H activation as a means of synthesizing complex natural products. <i>Chemical Society Reviews</i> , 2023, 52, 7461-7503.	38.1	3
284	Ruthenium(II)-Catalyzed [4 + 2] Electro-Oxidative Annulation of <i>C</i> ⁶ -Arylpurines/Purine Nucleosides. <i>Organic Letters</i> , 2023, 25, 6796-6801.	4.6	0
285	The acylation with aldehydes via dual C-H activations by combining photocatalysis and palladium catalysis. <i>Molecular Catalysis</i> , 2023, 550, 113542.	2.0	1
286	Supported Fe Ions on Different Zr-Based Metalâ€Organic Frameworks for Alkane Oxidation. , 2023, 1, 2368-2376.		0
287	Double cobalt-catalyzed atroposelective Câ€H activation: One-step synthesis of atropisomeric indoles bearing vicinal Câ€C and Câ€N diaxes. <i>Chem Catalysis</i> , 2023, 3, 100765.	6.1	2

#	ARTICLE	IF	CITATIONS
288	Co-Schiff base complexes functionalized on graphene as efficient heterogeneous nanocatalysts for alcohols oxidation. <i>Inorganic and Nano-Metal Chemistry</i> , 0, , 1-11.	1.6	0
289	Rhodium-Catalysed Selective C-H Alkylation of 1 <i>H</i> -Indazoles with Vinylene Carbonate: Easily Introducing Allylic Alcohol. <i>European Journal of Organic Chemistry</i> , 2023, 26, .	2.4	0
290	When transition-metal-catalyzed C-H activation meets allene chemistry. , 2023, 8, 100049.		1
291	Selective Electrochemical Benzylic C(sp ³)-H Oxidations in Fluoroalcohols. <i>ChemistrySelect</i> , 2023, 8, .	1.5	1
292	Pd-Catalyzed [3+2]-Dehydrogenative Annulation Reactions. <i>European Journal of Organic Chemistry</i> , 2023, 26, .	2.4	0
293	Catalytic C-H Functionalization of Trimethylamine. <i>Synlett</i> , 0, , .	1.8	0
294	Green Synthesis of 3,4-Unsubstituted Isoquinolones through Rhodium(III)-Catalyzed C-H Activation and Annulation in Ethanol. <i>European Journal of Organic Chemistry</i> , 2023, 26, .	2.4	1
295	Metal-Catalyzed Synthesis of Benzofused Five-Membered N/O/S Heterocycles, a Progressive Area in Synthetic Chemistry. <i>European Journal of Organic Chemistry</i> , 0, , .	2.4	0
296	Recent advances in metal directed C-H amidation/amination using sulfonyl azides and phosphoryl azides. <i>Organic and Biomolecular Chemistry</i> , 0, , .	2.8	0
297	Micellar catalysis: a green solution to enable undirected and mild C-H activation of (oligo)thiophenes at the challenging 1 ² -position. <i>Chemical Science</i> , 2023, 14, 12049-12055.	7.4	1
298	Synthesis of well-defined ester-linked covalent organic polymer and its potential applications in C-H bond activation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2024, 447, 115248.	3.9	1
299	Axially Chiral 2-Hydroxybiaryls by Palladium-Catalyzed Enantioselective C-H Activation. <i>ACS Catalysis</i> , 2023, 13, 13994-13999.	11.2	1
300	Benzoxazole or Benzothiazole as an Innate Directing Group for Palladium- and Ruthenium-Catalyzed Complementary C-H Arylation: Functionalization of Biorelevant Heterocyclic Scaffolds. <i>Synthesis</i> , 2024, 56, 312-328.	2.3	1
301	Advances in the transition metal-catalyzed C-H amination strategies using anthranils. <i>Organic and Biomolecular Chemistry</i> , 0, , .	2.8	0
302	Transition-Metal-Free Electrochemical Selenylative Cyclization of Alkynyl Phosphonates. <i>Journal of Organic Chemistry</i> , 2023, 88, 15414-15427.	3.2	1
303	Site-Selective C8-Alkylation of Quinolines with Cyclopropanols: Merging C-H/C-C Bond Activation. <i>Organic Letters</i> , 2023, 25, 7805-7809.	4.6	1
304	Diazines and Triazines as Building Blocks in Ligands for Metal-Mediated Catalytic Transformations. <i>ACS Organic & Inorganic Au</i> , 2024, 4, 41-58.	4.0	0
305	Reversible Oxidative Addition of Nonactivated C-H Bonds to Structurally Constrained Phosphenium Ions. <i>Journal of the American Chemical Society</i> , 2023, 145, 24184-24190.	13.7	2

#	ARTICLE	IF	CITATIONS
306	A tautomerized ligand enabled meta selective C-H borylation of phenol. Nature Communications, 2023, 14, .	12.8	2
307	Regioselectivity Control in the Synthesis of Linear Conjugated Dienes Enabled by Manganese(I)-Catalyzed C-H Activation. ACS Catalysis, 2023, 13, 14523-14529.	11.2	0
308	Chemo selective C-H alkylation of isoquinolones with maleimides: A combined experimental and computational case study. Molecular Catalysis, 2023, 551, 113597.	2.0	3
309	Rhodium(<i>iii</i>)-catalyzed three-component C(sp ²)-H activation for the synthesis of amines. Chemical Communications, 2023, 59, 14431-14434.	4.1	0
310	Photo-induced versatile aliphatic C-H functionalization via electron donor-acceptor complex. Science Bulletin, 2023, , .	9.0	0
311	Continuous-Flow Enantioselective Hydroacylations under Heterogeneous Chiral Rhodium Catalysts. Angewandte Chemie - International Edition, 2024, 63, .	13.8	2
312	Continuous-Flow Enantioselective Hydroacylations under Heterogeneous Chiral Rhodium Catalysts. Angewandte Chemie, 0, , .	2.0	0
313	Methanol as a C1 Source for the Synthesis of 1,3-Polyheterocyclic Systems. European Journal of Organic Chemistry, 2023, 26, .	2.4	0
314	Catalyst-free assembly of a polyfunctionalized 1,2,4-triazole-fused N-heterocycle, 6-acylated pyrrolo[1,2- <i>a</i>][1,2,4]triazolo[5,1- <i>c</i>]pyrazine. Organic and Biomolecular Chemistry, 0, , .	2.8	0
315	Ligand Combination Approach in Pd-Catalyzed Direct C-H Arylation of Benzothiazole and Benzoxazole. European Journal of Organic Chemistry, 0, , .	2.4	0
316	Electrochemical C-H/C-C Bond Oxygenation: A Potential Technology for Plastic Depolymerization. Chemical Record, 0, , .	5.8	0
317	Recent Advances in C-H Functionalization of Pyrenes. Chemistry, 2023, 5, 2713-2755.	2.2	1
318	Directed C-H Allylation of Aromatic Carboxamides with Allyl Aryl Ethers under Cp*Co(III)-Catalysis. European Journal of Organic Chemistry, 0, , .	2.4	0
319	Ion mobility mass spectrometry uncovers regioselectivity in the carboxylate-assisted C-H activation of palladium N-heterocyclic carbene complexes. Dalton Transactions, 0, , .	3.3	0
320	Precise activation of C-C bonds for plastics recycling and upcycling. Chemical Science, 0, , .	7.4	0
321	Designing solvent systems using self-evolving solubility databases and graph neural networks. Chemical Science, 2024, 15, 923-939.	7.4	0
322	Copper-Catalyzed C-H (Phenylsulfonyl)difluoromethylation of Acrylamides: Scope, Mechanism, and Critical Role of Additives. Chemistry - A European Journal, 2024, 30, .	3.3	0
323	Iodine-Catalyzed Radical C-H Amination of Nonaromatic Imidazole Oxides: Access to Cyclic $\dot{\pm}$ -Aminonitrones. Journal of Organic Chemistry, 0, , .	3.2	0

#	ARTICLE	IF	CITATIONS
324	C-H Borylation: A Toolbox for Molecular Diversification. <i>Organic Chemistry Frontiers</i> , 0, , .	4.5	0
325	Carbon Dot as Visible-Light Photoredox Catalysts for a Myriad of Organic Transformations. <i>Journal of Organic Chemistry</i> , 0, , .	3.2	0
326	Organo-Photoredox Catalyzed C(sp ³)-H Bond Arylation of Aliphatic Amides. <i>ChemSusChem</i> , 0, , .	6.8	0
327	C-H Bond Activation by High-valent Iron/Cobalt-oxo Complexes: A Quantum Chemical Modeling Approach. <i>Physical Chemistry Chemical Physics</i> , 0, , .	2.8	0
328	Design of Organic Radical Cations as Potent Hydrogen-Atom Transfer Catalysts for C-H Functionalization. <i>Asian Journal of Organic Chemistry</i> , 2024, 13, .	2.7	0
329	Synthesis of Spiropyrans via Ru(II)-Catalyzed Coupling of 3-aryl-2H-benzo[b][1,4]oxazines with Benzoquinones. <i>Organic and Biomolecular Chemistry</i> , 0, , .	2.8	0
330	Recent advances in hydrogen atom transfer induced C(sp ³)-H functionalizations initiated by radical addition to alkynes. <i>Organic Chemistry Frontiers</i> , 2024, 11, 1232-1250.	4.5	0
331	Synergistic silver-mediated and palladium-catalyzed nondirected olefination of aryl C-H bond: quick access to multi-substituted aryl olefins. <i>Science China Chemistry</i> , 2024, 67, 882-889.	8.2	0
332	Cu-Catalyzed Oxidative C(sp ²)-H Cycloetherification of <i>ortho</i> -Alkenyl Arenols for the Preparation of Fused Furans. <i>Journal of Organic Chemistry</i> , 2024, 89, 34-43.	3.2	0
333	Aerobic Catalytic Cross-Dehydrogenative Coupling of Furans with Indoles Provides Access to Fluorophores with Large Stokes Shift. <i>Chemistry - A European Journal</i> , 2024, 30, .	3.3	0
334	Discovery of Organic Optoelectronic Materials Powered by Oxidative Ar-H/Ar-H Coupling. <i>Journal of the American Chemical Society</i> , 2024, 146, 1224-1243.	13.7	0
335	The green chemistry paradigm in modern organic synthesis. <i>Russian Chemical Reviews</i> , 2023, 92, RCR5104.	6.5	0
336	Iridium(III)-catalyzed \hat{I}^2 -trifluoromethyl enone carbonyl-directed regioselective <i>ortho</i> -C(sp ²)-H olefination. <i>Organic and Biomolecular Chemistry</i> , 2024, 22, 1162-1166.	2.8	0
337	Ru(II) Catalyzed Oxidative Dehydrogenative Annulation and Spirocyclization of Isoquinolones with <i>N</i> -Substituted Maleimides. <i>Advanced Synthesis and Catalysis</i> , 2024, 366, 1788-1808.	4.3	0
338	Cobalt/Organophotoredox Dual-Catalysis-Enabled Cyclization of 1,5,10-Ene-diyne Involving Metallole-Mediated Remote C(sp ³)-H Bond Activation Leading to Axially Chiral Aryl Alkenes. <i>ACS Catalysis</i> , 2024, 14, 2049-2057.	11.2	0
339	Direct Heterocycle C-H Alkenylation via Dual Catalysis Using a Palladacycle Precatalyst: Multifactor Optimization and Scope Exploration Enabled by High-Throughput Experimentation. <i>Journal of Organic Chemistry</i> , 0, , .	3.2	0
340	Engineering Hydroxylase Activity, Selectivity, and Stability for a Scalable Concise Synthesis of a Key Intermediate to Belzutifan. <i>Angewandte Chemie - International Edition</i> , 2024, 63, .	13.8	3
341	Engineering Hydroxylase Activity, Selectivity, and Stability for a Scalable Concise Synthesis of a Key Intermediate to Belzutifan. <i>Angewandte Chemie</i> , 2024, 136, .	2.0	0

#	ARTICLE	IF	CITATIONS
342	Sequential <i>ortho</i> -/ <i>meta</i> -C-H functionalizations of <i>N</i> -tosyl-benzamides for the synthesis of polyfunctionalized arenes. <i>Chemical Communications</i> , 2024, 60, 2244-2247.	4.1	0
343	Affinity-peptide-mediated multi-enzyme self-assembly system enhances dioxygenase catalyzing C-H hydroxylation via in situ α -ketoglutarate generation and H ₂ O ₂ elimination. <i>Molecular Catalysis</i> , 2024, 555, 113873.	2.0	0
344	Unusual catalytic strategy by non-heme Fe(II)/2-oxoglutarate-dependent aspartyl hydroxylase AspH. <i>Chemical Science</i> , 2024, 15, 3466-3484.	7.4	0
345	Ir(III)/Ag(I)-catalyzed directly C-H amidation of arenes with OH-free hydroxyamides as amidating agents. <i>RSC Advances</i> , 2024, 14, 5975-5980.	3.6	0
346	Rhodium-catalyzed annulation of hydrazines with vinylene carbonate to synthesize unsubstituted 1-aminoindole derivatives. <i>RSC Advances</i> , 2024, 14, 4804-4809.	3.6	0
347	Selective Oxidation of Hydrocarbons by Molecular Iron Catalysts Based on Molecular Recognition through π - π Interaction in Aqueous Medium. <i>ACS Catalysis</i> , 2024, 14, 2609-2619.	11.2	0
348	Palladium-Catalyzed C-H Olefination of Imidazo[1,2-a] pyridine Carboxamide in Aqueous Ethanol under Oxygen. <i>Chemistry - A European Journal</i> , 2024, 30, .	3.3	0
349	Well-defined Bis(imino)pyridine-Manganese(II) Complexes for Oxidation of Benzylic C-H Bonds. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2024, 650, .	1.2	0
350	Recent Progress in Functionalization of the Pyridine Ring through C-S Bond Formation under Transition Metal Catalyst Free Conditions. <i>Advanced Synthesis and Catalysis</i> , 2024, 366, 1467-1483.	4.3	0
351	Construction of an Angular Tricyclic Benzofuran Skeleton Using the C-H Activation Strategy. <i>Journal of Organic Chemistry</i> , 2024, 89, 3304-3308.	3.2	0
352	Mechanistic Insights into the Origins of Selectivity in a Cu-Catalyzed C-H Amidation Reaction. <i>Journal of the American Chemical Society</i> , 2024, 146, 6168-6177.	13.7	0
353	Cu(II)-Mediated Sulfonylation of (Hetero)arenes with TosMIC Using Monodentate Directing Groups. <i>Journal of Organic Chemistry</i> , 2024, 89, 3894-3906.	3.2	0
354	Zirconium and hafnium catalyzed C-C single bond hydroboration. <i>Nature Communications</i> , 2024, 15, .	12.8	0
355	Electrochemical low valent cobalt-catalyzed addition of aryl and vinyl chlorides to α -ketoamides <i>via</i> C-Cl bond activation. <i>Chemical Communications</i> , 2024, 60, 3826-3829.	4.1	0
356	X-type silyl ligands for transition-metal catalysis. <i>Chemical Society Reviews</i> , 2024, 53, 4648-4673.	38.1	0
357	Recent advances in spirocyclization of maleimides <i>via</i> transition-metal catalyzed C-H activation. <i>Organic and Biomolecular Chemistry</i> , 2024, 22, 2916-2947.	2.8	0