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**C-H bond activation enables the rapid construction and late-stage diversification of functional molecules**

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#	Paper	IF	Citations
1951	Catalyst-controlled divergent C-H functionalization of unsymmetrical 2-aryl cyclic 1,3-dicarbonyl compounds with alkynes and alkenes. <b>2013</b> , 135, 10829-36		143
1950	Regioselective C2 Oxidative Olefination of Indoles and Pyrroles through Cationic Rhodium(III)-Catalyzed C-H Bond Activation. <b>2013</b> , 19, 11863-8		98
1949	ortho-Acetoxylation of phosphonic and phosphoric monoacids via Pd(II) catalysis. <b>2013</b> , 78, 8826-32		55
1948	Unexpected Formation of Ferrocenyl(vinyl)benzoquinoline Ligands by Oxidation of an Alkyne Benzoquinolate Platinum(II) Complex. <b>2013</b> , 32, 3943-3953		13
1947	Perfluorocyclohexene bridges in inverse DiArylEthenes: synthesis through Pd-catalysed C-H bond activation, experimental and theoretical studies on their photoreactivity. <b>2013</b> , 49, 7896-8		9
1946	Rhodium-catalyzed directed C-H cyanation of arenes with N-cyano-N-phenyl-p-toluenesulfonamide. <b>2013</b> , 135, 10630-3		211
1945	Rh(III)-catalyzed dehydrogenative alkylation of (hetero)arenes with allylic alcohols, allowing aldol condensation to indenenes. <b>2013</b> , 49, 6489-91		109
1944	Employing a robustness screen: rapid assessment of rhodium(III)-catalysed C-H activation reactions. <b>2013</b> , 69, 7817-7825		60
1943	Rh(III)-catalyzed halogenation of vinylic C-H Bonds: rapid and general access to Z-halo acrylamides. <b>2013</b> , 15, 3860-3		105
1942	Rh(III)-catalyzed synthesis of multisubstituted isoquinoline and pyridine N-oxides from oximes and diazo compounds. <b>2013</b> , 135, 12204-7		376
1941	Access to Alternative Regioisomers for Palladium-Catalysed Direct Arylations of (Benzo)thiophenes. <b>2013</b> , 5, 3495-3496		24
1940	Synthesis of conjugated dienes via a biomimetic aerobic oxidative coupling of two C(vinyl)-H bonds. <b>2013</b> , 19, 10799-803		59
1939	Copper-catalyzed ortho-halogenation of protected anilines. <b>2013</b> , 49, 11044-6		74
1938	[3]Dendralene synthesis: rhodium(III)-catalyzed alkenyl C-H activation and coupling reaction with allenyl carbinol carbonate. <b>2013</b> , 52, 12430-4		137
1937	Traceless directing strategy: efficient synthesis of N-alkyl indoles via redox-neutral C-H activation. <b>2013</b> , 15, 5294-7		176
1936	Platinum-catalyzed C-H arylation of simple arenes. <b>2013</b> , 135, 15710-3		104
1935	Influence of 1,3-Difluorobenzene Substituents for Palladium-Catalyzed Direct Arylations. <b>2013</b> , 2013, 7152-7163		12

1934	General and practical carboxyl-group-directed remote C-H oxygenation reactions of arenes. <b>2013</b> , 19, 15836-40	79
1933	Palladium-Catalyzed C <sup>α</sup> H and C <sup>β</sup> N Arylation of Aminothiazoles with Arylboronic Acids. <b>2013</b> , 2, 938-942	26
1932	Direct bis-arylation of cyclobutanecarboxamide via double C-H activation: an auxiliary-aided diastereoselective Pd-catalyzed access to trisubstituted cyclobutane scaffolds having three contiguous stereocenters and an all-cis stereochemistry. <b>2013</b> , 78, 11911-34	53
1931	Palladium(II)-catalyzed ortho-arylation of benzylic phosphonic monoesters using potassium aryltrifluoroborates. <b>2013</b> , 78, 11247-54	26
1930	Palladium-catalyzed direct arylation of luminescent bis-cyclometalated iridium(III) complexes incorporating C <sup>α</sup> N- or O <sup>α</sup> O-coordinating thiophene-based ligands: an efficient method for color tuning. <b>2013</b> , 52, 12416-28	26
1929	Steric control of site selectivity in the Pd-catalyzed C-H acetoxylation of simple arenes. <b>2013</b> , 15, 5428-31	65
1928	Indole synthesis by rhodium(III)-catalyzed hydrazine-directed C-H activation: redox-neutral and traceless by N-N bond cleavage. <b>2013</b> , 52, 12426-9	311
1927	Indolsynthese durch Rhodium(III)-katalysierte Hydrazin-dirigierte C-H-Aktivierung: redoxneutral und spurlos durch N-N-Bindungsspaltung. <b>2013</b> , 125, 12652-12656	105
1926	Asymmetric C(sp <sup>2</sup> ) -H activation. <b>2013</b> , 19, 14010-7	191
1925	An efficient light-driven P450 BM3 biocatalyst. <b>2013</b> , 135, 14484-7	99
1924	Rhodium(III)-catalyzed azidation and nitration of arenes by C-H activation. <b>2013</b> , 52, 11862-6	159
1923	Direct access to highly substituted 1-naphthols through palladium-catalyzed oxidative annulation of benzoylacetates and internal alkynes. <b>2013</b> , 19, 13322-7	43
1922	Silver-mediated oxidative C-H/P-H functionalization: an efficient route for the synthesis of benzo[b]phosphole oxides. <b>2013</b> , 135, 16754-7	226
1921	Palladium-catalysed direct regioselective C5-arylation of a thiophene bearing a cyclopropyl ketone group at C2. <b>2013</b> , 41, 119-122	5
1920	Completely regioselective direct C-H functionalization of benzo[b]thiophenes using a simple heterogeneous catalyst. <b>2013</b> , 135, 7450-3	143
1919	Rh[III]-catalyzed C-H amidation using aryloxycarbamates to give N-Boc protected arylamines. <b>2013</b> , 15, 3014-7	135
1918	Rh(III)/Cu(II)-cocatalyzed synthesis of 1H-indazoles through C-H amidation and N-N bond formation. <b>2013</b> , 135, 8802-5	275
1917	Phosphine-free palladium-catalysed direct C2-arylation of benzothiophenes with aryl bromides. <b>2013</b> , 69, 7082-7089	25

1916	Ortho- and para-selective ruthenium-catalyzed C(sp <sup>2</sup> )-H oxygenations of phenol derivatives. <b>2013</b> , 15, 3484-6	133
1915	A straightforward access to guaiazulene derivatives using palladium-catalysed sp <sup>2</sup> or sp <sup>3</sup> C-H bond functionalisation. <b>2013</b> , 49, 5598-600	35
1914	Rhenium-Catalyzed Oxidative Cyanation of Tertiary Amines with TMSCN. <b>2013</b> , 2013, 7286-7290	38
1913	Meta-selective C-H functionalization using a nitrile-based directing group and cleavable Si-tether. <b>2013</b> , 135, 18778-81	186
1912	Copper-catalyzed oxidative ring closure and carboarylation of 2-ethynylanilides. <b>2013</b> , 15, 5654-7	50
1911	Ru(II)-catalyzed vinylative dearomatization of naphthols via a C(sp <sup>2</sup> )-H bond activation approach. <b>2013</b> , 135, 17306-9	189
1910	Decatungstate Photocatalyzed Benzylolation of Alkenes with Alkylaromatics. <b>2013</b> , 355, 2891-2899	37
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1907	ChemInform Abstract: C-H Bond Activation Enables the Rapid Construction and Late-Stage Diversification of Functional Molecules. <b>2013</b> , 44, no-no	2
1906	Synthesis of heterocyclic compounds through palladium-catalyzed C-H cyclization processes. <b>2013</b> , 61, 987-96	16
1905	Palladium-catalyzed 2,5-diheteroarylation of 2,5-dibromothiophene derivatives. <b>2014</b> , 10, 2912-9	12
1904	Ruthenium-catalyzed cascade C-H functionalization of phenylacetophenones. <b>2014</b> , 53, 1529-33	80
1903	[Rh(III)(Cp*)]-catalyzed ortho-selective direct C(sp <sup>2</sup> )-H bond amidation/amination of benzoic acids by N-chlorocarbamates and N-chloromorpholines. A versatile synthesis of functionalized anthranilic acids. <b>2014</b> , 20, 4474-80	56
1902	Ruthenium-Catalyzed Cascade C-H Functionalization of Phenylacetophenones. <b>2014</b> , 126, 1555-1559	23
1901	Tuning reactivity and site selectivity of simple arenes in C-H activation: ortho-arylation of anisoles via arene-metal $\pi$ -complexation. <b>2014</b> , 136, 18082-6	32
1900	Pd/C als Katalysator für die vollständig regioselektive und milde C-H-Funktionalisierung von Thiophenen. <b>2014</b> , 126, 1840-1844	46
1899	Rhodium(III)- and iridium(III)-catalyzed C7 alkylation of indolines with diazo compounds. <b>2014</b> , 20, 17653-7	143

1898	Iridium(III)-catalyzed C-H amidation of arylphosphoryls leading to a P-stereogenic center. <b>2014</b> , 20, 12421-5	78
1897	Synthesis and pharmacological evaluation of like- and unlike-configured tetrahydro-2-benzazepines with the $\beta$ -substituted benzyl moiety in the 5-position. <b>2014</b> , 12, 5407-26	61
1896	Rhodium(I)-Catalyzed Cycloisomerization of Benzylallene-Alkynes through C $\equiv$ H Activation. <b>2014</b> , 126, 7738-7742	13
1895	Kombinierte Rhodium- und Photoredoxkatalyse in der C-H-Funktionalisierung von Arenen: oxidative Heck-Reaktionen mit sichtbarem Licht. <b>2014</b> , 126, 10392-10396	48
1894	Ruthenium-Catalyzed Alkenylation of Arenes with Alkynes or Alkenes by 1,2,3-Triazole-Directed C $\equiv$ H Activation. <b>2014</b> , 2014, 7878-7888	37
1893	Access to $\beta$ -Lactams by Enantioselective Palladium(0)-Catalyzed C(sp <sup>3</sup> ) $\equiv$ H Alkylation. <b>2014</b> , 126, 9210-9213	43
1892	Aldehyde-Assisted Ruthenium(II)-Catalyzed C $\equiv$ H Oxygenations. <b>2014</b> , 126, 11467-11470	37
1891	Zinc(II) Hexachloroantimonate-Catalyzed Oxidative Allylation of Glycine Derivatives. <b>2014</b> , 3, 1066-1069	18
1890	Rh(III)-catalyzed C $\equiv$ H activation $\rightarrow$ desymmetrization of diazabicycles with arenes: facile synthesis of functionalized cyclopentenes. <b>2014</b> , 5, 297-302	75
1889	Stereospecific ring expansion from orthocyclophanes with central chirality to metacyclophanes with planar chirality. <b>2014</b> , 5, 3111	50
1888	Palladium-catalyzed base-accelerated direct C $\equiv$ H bond alkenylation of phenols to synthesize coumarin derivatives. <b>2014</b> , 1, 44-49	53
1887	Copper-Catalyzed Intramolecular Oxidative C(sp <sup>3</sup> ) $\equiv$ H Amidation of 2-Aminoacetophenones: Efficient Synthesis of Indoline-2,3-diones. <b>2014</b> , 2014, 2878-2882	28
1886	Pd/C as a catalyst for completely regioselective C-H functionalization of thiophenes under mild conditions. <b>2014</b> , 53, 1809-13	144
1885	Iron-catalyzed C(sp <sup>2</sup> )-H and C(sp <sup>3</sup> )-H arylation by triazole assistance. <b>2014</b> , 53, 3868-71	219
1884	Pd-catalyzed cross-coupling of polyfluoroarenes with cyclic vinyl triflates. <b>2014</b> , 57, 276-281	2
1883	Cross-Coupling of Heteroarenes by C $\equiv$ H Functionalization: Recent Progress towards Direct Arylation and Heteroarylation Reactions Involving Heteroarenes Containing One Heteroatom. <b>2014</b> , 356, 17-117	356
1882	Ruthenium-catalyzed cross-dehydrogenative ortho-N-carbazolation of diarylamines: versatile access to unsymmetrical diamines. <b>2014</b> , 53, 3505-9	67
1881	Ascorbic acid as an initiator for the direct C-H arylation of (hetero)arenes with anilines nitrosated in situ. <b>2014</b> , 53, 2181-5	126

1880	Intermolecular domino reaction of two aryl iodides involving two C-H functionalizations. <b>2014</b> , 53, 5147-51	80
1879	$\beta$ -MsO/TsO/Cl ketones as oxidized alkyne equivalents: redox-neutral rhodium(III)-catalyzed C-H activation for the synthesis of N-heterocycles. <b>2014</b> , 53, 2754-8	134
1878	Late-stage functionalization of biologically active heterocycles through photoredox catalysis. <b>2014</b> , 53, 4802-6	347
1877	Chiral Cp-rhodium(III)-catalyzed asymmetric hydroarylations of 1,1-disubstituted alkenes. <b>2014</b> , 53, 507-11	207
1876	Aromatic homologation by non-chelate-assisted Rh(III)-catalyzed C-H functionalization of arenes with alkynes. <b>2014</b> , 53, 3484-7	113
1875	Regiocontrolled Palladium-Catalysed Direct Arylation at Carbon C2 of Benzofurans using Benzenesulfonyl Chlorides as the Coupling Partners. <b>2014</b> , 6, n/a-n/a	11
1874	Synthesis and Optical Properties of Imidazole-Based Fluorophores having High Quantum Yields. <b>2014</b> , 79, 366-370	12
1873	Palladium-catalyzed R <sub>2</sub> (O)P directed C(sp <sup>2</sup> )-H acetoxylation. <b>2014</b> , 50, 4686-9	53
1872	Synthesis of Substituted Pyrazoles from Vinylhydrozones via Bromoamination and Hydroamination with 2,2,6,6-Tetramethylpiperidine-1-oxyl and N-Bromosuccinimide. <b>2014</b> , 3, 638-643	4
1871	Formyl Substituent at C-4 of Pyrazoles: A Temporary Protecting Group for Regioselective Palladium-Catalyzed Direct Arylation at C-5. <b>2014</b> , 2014, 1778-1786	21
1870	Air-Stable Carbonyl(pentamethylcyclopentadienyl)cobalt Diiodide Complex as a Precursor for Cationic (Pentamethylcyclopentadienyl)cobalt(III) Catalysis: Application for Directed C-2 Selective C-H Amidation of Indoles. <b>2014</b> , 356, 1491-1495	267
1869	Transition-metal-catalyzed C-H bond functionalizations: feasible access to a diversity-oriented carboline library. <b>2014</b> , 20, 3408-14	20
1868	Rhodium(III)-catalyzed synthesis of indoles from 1-alkylidene-2-arylhydrazines and alkynes via C-H and N-H bond cleavages. <b>2014</b> , 55, 3302-3304	25
1867	ortho-Allylation of 1-Arylpyrazoles with Allyl Phenyl Ether via Iron-Catalyzed C-H Bond Activation under Mild Conditions. <b>2014</b> , 356, 1481-1485	49
1866	Towards ideal synthesis: alkenylation of aryl C-H bonds by a Fujiwara-Moritani reaction. <b>2014</b> , 20, 634-42	196
1865	Reactivity of 3-Substituted Fluorobenzenes in Palladium-Catalysed Direct Arylations with Aryl Bromides. <b>2014</b> , 356, 1586-1596	30
1864	Formal S <sub>N</sub> -Type Reactions in Rhodium(III)-Catalyzed C-H Bond Activation. <b>2014</b> , 356, 1443-1460	714
1863	Aerobic double dehydrogenative cross coupling between cyclic saturated ketones and simple arenes. <b>2014</b> , 20, 5890-4	29

1862	Photoinduced conversion of methane into benzene over GaN nanowires. <b>2014</b> , 136, 7793-6	96
1861	Direct metal-catalyzed regioselective functionalization of enamides. <b>2014</b> , 20, 7548-64	92
1860	Mild Rh(III)-catalyzed direct C-H bond arylation of (hetero)arenes with arylsilanes in aqueous media. <b>2014</b> , 16, 2614-7	107
1859	Manganese-catalyzed dehydrogenative [4+2] annulation of N-H imines and alkynes by C-H/N-H activation. <b>2014</b> , 53, 4950-3	287
1858	Rhodium(II)-catalyzed nondirected oxidative alkenylation of arenes: arene loading at one equivalent. <b>2014</b> , 53, 2683-6	55
1857	2,4- and 2,5-Disubstituted Arylthiazoles: Rapid Synthesis by C-H Coupling and Biological Evaluation. <b>2014</b> , 2014, 3387-3394	11
1856	C-H Activation by Amide Chelation Control: Ruthenium- Catalyzed Direct Synthesis of 2-Aryl-3-furanamides. <b>2014</b> , 356, 1527-1532	26
1855	Room-temperature ortho-alkoxylation and -halogenation of N-tosylbenzamides by using palladium(II)-catalyzed C-H activation. <b>2014</b> , 20, 7507-13	44
1854	A highly efficient Cu-catalyzed S-transfer reaction: from amine to sulfide. <b>2014</b> , 16, 2692-5	105
1853	Late-Stage C-H Coupling Enables Rapid Identification of HDAC Inhibitors: Synthesis and Evaluation of NCH-31 Analogues. <b>2014</b> , 5, 582-6	17
1852	Rh(III)-catalyzed C-H amidation with N-hydroxycarbamates: a new entry to N-carbamate-protected arylamines. <b>2014</b> , 16, 592-5	76
1851	Rh(III)-catalyzed intermolecular C-H amination of 1-aryl-1H-pyrazol-5(4H)-ones with alkylamines. <b>2014</b> , 16, 42-5	53
1850	Direct functionalization of unactivated C-H bonds catalyzed by group 3-5 metal alkyl complexes. <b>2014</b> , 43, 2331-43	57
1849	Straightforward assembly of benzoxepines by means of a rhodium(III)-catalyzed C-H functionalization of o-vinylphenols. <b>2014</b> , 136, 834-7	203
1848	Programmed synthesis of arylthiazoles through sequential C-H couplings. <b>2014</b> , 5, 123-135	172
1847	Benzenesulfonyl chlorides: new reagents for access to alternative regioisomers in palladium-catalysed direct arylations of thiophenes. <b>2014</b> , 5, 392-396	84
1846	Transition metal-catalyzed direct nucleophilic addition of C-H bonds to carbon-heteroatom double bonds. <b>2014</b> , 5, 2146-2159	273
1845	Rh(III)-catalyzed intramolecular redox-neutral cyclization of alkenes via C-H activation. <b>2014</b> , 50, 2650-2	89

1844	Palladium-catalysed direct diarylations of pyrazoles with aryl bromides: a one step access to 4,5-diarylpyrazoles. <b>2014</b> , 55, 1697-1701	22
1843	Conversion of 1-alkenes into 1,4-diols through an auxiliary-mediated formal homoallylic C-H oxidation. <i>Nature Chemistry</i> , <b>2014</b> , 6, 122-5	17.6 96
1842	Palladium-catalyzed $\beta$ -acyloxylation of simple amide via $sp^3$ C-H activation. <b>2014</b> , 16, 508-11	50
1841	Nickel-catalyzed direct arylation of C( $sp^3$ )-H bonds in aliphatic amides via bidentate-chelation assistance. <b>2014</b> , 136, 898-901	340
1840	Oxidative C-H amination reactions. <b>2014</b> , 43, 901-10	621
1839	Ruthenium-catalyzed redox-neutral C-H activation via N-N cleavage: synthesis of N-substituted indoles. <b>2014</b> , 16, 5976-9	72
1838	Palladium-Catalysed Direct Desulfitative Arylation of Pyrroles using Benzenesulfonyl Chlorides as Alternative Coupling Partners. <b>2014</b> , 356, 3831-3841	50
1837	Efficient synthesis of $\beta$ -extended phenazasilines for optical and electronic applications. <b>2014</b> , 50, 15760-3	38
1836	Rhodium(III)/copper(II)-promoted trans-selective heteroaryl acyloxylation of alkynes: stereodefined access to trans-enol esters. <b>2014</b> , 53, 14575-9	25
1835	Rhodium(III)-catalyzed olefinic C-H alkylation of acrylamides using tosyl-imide as directing group. <b>2014</b> , 16, 5956-9	89
1834	Ruthenium(II)-Catalyzed C-H Bond Activation: An Efficient Route toward Indenamines. <b>2014</b> , 6, 2692-2697	33
1833	Die C-H-Aktivierungs/1,3-Diim-Strategie: hochselektive direkte Synthese vielfältiger Bisheterocyclen mithilfe von Rh(III)-Katalyse. <b>2014</b> , 126, 9804-9809	43
1832	Influence of the solvent and of the reaction concentration for palladium-catalysed direct arylation of heteroaromatics with 4-bromoacetophenone. <b>2014</b> , 17, 1184-1189	7
1831	Ligands Control Reactivity and Selectivity in Palladium-Catalyzed Functionalization of Unactivated C $sp^3$ -H Bonds. <b>2014</b> , 6, 2188-2190	13
1830	Asymmetric Synthesis of Isoindolones by Chiral Cyclopentadienyl-Rhodium(III)-Catalyzed C-H Functionalizations. <b>2014</b> , 126, 8030-8033	91
1829	Direkte Funktionalisierung mit vollständiger und schaltbarer Positionskontrolle: freies Phenol als Vorbild. <b>2014</b> , 126, 7842-7845	14
1828	Copper-Catalyzed Direct C-H Arylation of Thieno[3,4-c]pyrrole-4,6-dione (TPD): Toward Efficient and Low-Cost Synthesis of $\beta$ -Functional Small Molecules. <b>2014</b> , 356, 3761-3768	15
1827	Gold(I)-catalyzed polycyclization of linear dienediynes to seven-membered ring-containing polycycles via tandem cyclopropanation/Cope rearrangement/C-H activation. <b>2014</b> , 16, 5898-901	37



1826	Pd-catalyzed C-H carbonylation of (hetero)arenes with formates and intramolecular dehydrogenative coupling: a shortcut to indolo[3,2-c]coumarins. <b>2014</b> , 16, 5862-5	44
1825	Dehydrative C-H/N-OH functionalizations in H <sub>2</sub> O by ruthenium(II) catalysis: subtle effect of carboxylate ligands and mechanistic insight. <b>2014</b> , 79, 12070-82	65
1824	Access to 6-arylpyrrolo[2,3-d]pyrimidines via a palladium-catalyzed direct C <sup>β</sup> arylation reaction. <b>2014</b> , 4, 35966-35974	14
1823	Controllable mono-/di-alkenylation of aryl alkyl thioethers tuned by oxidants via Pd-catalysis. <b>2014</b> , 1, 1096-1100	29
1822	Exploring a unique reactivity of N-heterocyclic carbenes (NHC) in rhodium(III)-catalyzed intermolecular C-H activation/annulation. <b>2014</b> , 50, 15159-62	60
1821	Reactivity of C <sup>β</sup> bonds of polychlorobenzenes for palladium-catalysed direct arylations with aryl bromides. <b>2014</b> , 4, 352-360	10
1820	Non-Directed Allylic C-H Acetoxylation in the Presence of Lewis Basic Heterocycles. <b>2014</b> , 5, 2352-2361	63
1819	Synthesis of alkylidene pyrrolo[3,4-b]pyridin-7-one derivatives via Rh(III)-catalyzed cascade oxidative alkenylation/annulation of picolinamides. <b>2014</b> , 50, 6105-7	38
1818	Ruthenium catalysed C-H bond borylation. <b>2014</b> , 50, 6782-4	46
1817	Palladium@Cerium(IV) Oxide-Catalyzed Oxidative Synthesis of N-(2-Pyridyl)indoles via C <sup>β</sup> H Activation Reaction. <b>2014</b> , 356, 2955-2959	33
1816	Iron-catalyzed C(sp <sup>2</sup> )-H bond functionalization with organoboron compounds. <b>2014</b> , 136, 14349-52	131
1815	Rhodium(I)-catalyzed cycloisomerization of benzylallene-alkynes through C-H activation. <b>2014</b> , 53, 7608-12	29
1814	Palladium-catalyzed direct C <sup>β</sup> allylation of arenes without directing groups. <b>2014</b> , 1, 546	17
1813	Versatile ruthenium(II)-catalyzed C-H cyanations of benzamides. <b>2014</b> , 50, 1878-81	98
1812	Pd-catalyzed direct C <sup>β</sup> arylation of thieno[3,4-c]pyrrole-4,6-dione (TPD): a step-economical synthetic alternative to access TPD-centred symmetrical small molecules. <b>2014</b> , 4, 35868-35878	15
1811	Synthesis of 1,2-amino alcohols via catalytic C-H amidation of sp <sup>3</sup> methyl C-H bonds. <b>2014</b> , 50, 12073-5	84
1810	Rhodium-catalyzed oxidative annulation of hydrazines with alkynes using a nitrobenzene oxidant. <b>2014</b> , 16, 6176-9	54
1809	Preparation of conjugated 1,3-enynes by Rh(III)-catalysed alkylation of alkenes via C-H activation. <b>2014</b> , 50, 4459-61	155

1808	Directed arene/alkyne annulation reactions via aerobic copper catalysis. <b>2014</b> , 12, 8844-50	33
1807	Synthesis of axially chiral biaryls through sulfoxide-directed asymmetric mild C-H activation and dynamic kinetic resolution. <b>2014</b> , 53, 13871-5	191
1806	Ni(II)-catalyzed oxidative coupling between C(sp <sup>2</sup> )-H in benzamides and C(sp <sup>3</sup> )-H in toluene derivatives. <b>2014</b> , 136, 15509-12	209
1805	Reactivity of bromofluorenes in palladium-catalysed direct arylation of heteroaromatics. <b>2014</b> , 4, 3723-3732	8
1804	Nickel(II)-catalyzed direct arylation of C-H bonds in aromatic amides containing an 8-aminoquinoline moiety as a directing group. <b>2014</b> , 79, 11922-32	115
1803	Rhodium(III)-catalyzed directed peri-C-H alkenylation of anthracene derivatives. <b>2014</b> , 16, 4224-7	24
1802	Rhodium(III)-catalyzed N-nitroso-directed C-H addition to ethyl 2-oxoacetate for cycloaddition/fragmentation synthesis of indazoles. <b>2014</b> , 20, 14245-9	43
1801	Manganese-Catalyzed Dehydrogenative [4+2] Annulation of N <sup>2</sup> H Imines and Alkynes by C <sup>2</sup> H/N <sup>2</sup> H Activation. <b>2014</b> , 126, 5050-5053	108
1800	Room-temperature Cu(II)-catalyzed chemo- and regioselective ortho-nitration of arenes via C-H functionalization. <b>2014</b> , 79, 8541-9	18
1799	Ruthenium(II)-catalyzed oxidative C-H alkenylations of sulfonic acids, sulfonyl chlorides and sulfonamides. <b>2014</b> , 20, 15248-51	148
1798	One pot Pd(OAc) <sub>2</sub> -catalysed 2,5-diarylation of imidazoles derivatives. <b>2014</b> , 70, 8316-8323	13
1797	Combining rhodium and photoredox catalysis for C-H functionalizations of arenes: oxidative Heck reactions with visible light. <b>2014</b> , 53, 10228-31	131
1796	Amine-accelerated manganese-catalyzed aromatic C-H conjugate addition to $\alpha,\beta$ -unsaturated carbonyls. <b>2014</b> , 50, 14558-61	142
1795	Synthesis of poly(5,6-difluoro-2,1,3-benzothiadiazole-alt-9,9-dioctyl-fluorene) via direct arylation polycondensation. <b>2014</b> , 52, 2367-2374	31
1794	Solvent-controlled switchable C-H alkenylation of 4-aryl-1H-pyrrole-3-carboxylates: application to the total synthesis of (±)-rhazinilam. <b>2014</b> , 16, 4884-7	69
1793	Palladium-catalyzed P(O)R <sub>2</sub> directed C-H arylation to synthesize electron-rich polyaromatic monophosphorus ligands. <b>2014</b> , 50, 2193-5	49
1792	Late-stage diversification of peptides by metal-free C-H arylation. <b>2014</b> , 20, 13099-102	59
1791	Rhodium(III)-catalyzed formal oxidative [4 + 1] cycloaddition of benzohydroxamic acids and $\alpha$ -diazoesters. A facile synthesis of functionalized benzolactams. <b>2014</b> , 12, 4112-6	84

1790	Benzothiophene or benzofuran bridges in diaryl ethenes: two-step access by Pd-catalyzed C-H activation and theoretical/experimental studies on their photoreactivity. <b>2014</b> , 20, 10073-83	10
1789	Facile synthetic method for diverse polyfunctionalized imidazoles by means of Pd-catalyzed C-H bond arylation of N-methyl-4,5-dibromoimidazole. <b>2014</b> , 79, 7185-92	32
1788	Transition-metal-free oxidative $\alpha$ -C-H amination of ketones via a radical mechanism: mild synthesis of $\alpha$ -amino ketones. <b>2014</b> , 79, 8750-6	88
1787	Aldehyde-assisted ruthenium(II)-catalyzed C-H oxygenations. <b>2014</b> , 53, 11285-8	146
1786	Iodine(III)-mediated C-H alkoxylation of aniline derivatives with alcohols under metal-free conditions. <b>2014</b> , 79, 8768-73	16
1785	Rhodium(III)-catalyzed intramolecular redox-neutral annulation of tethered alkynes: formal total synthesis of ( $\beta$ )-goniomitine. <b>2014</b> , 20, 12768-72	62
1784	Rhodium(III)-catalyzed regioselective C-H alkenylation of phenylphosphine sulfides. <b>2014</b> , 79, 7649-55	56
1783	Pyrroloindolone synthesis via a Cp*Co(III)-catalyzed redox-neutral directed C-H alkenylation/annulation sequence. <b>2014</b> , 136, 5424-31	408
1782	A fast way to fluorescence: a fourfold domino reaction to condensed polycyclic compounds. <b>2014</b> , 20, 12553-8	22
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1780	Oxidative coupling of terminal alkyne with $\alpha$ -hydroxy ketone: an expedient approach toward ynediones. <b>2014</b> , 16, 4400-3	45
1779	Palladium-catalyzed remote C(sp <sup>3</sup> )-H arylation of 3-pinanamine. <b>2014</b> , 16, 4288-91	60
1778	Regioselective ortho olefination of aryl sulfonamide via rhodium-catalyzed direct C-H bond activation. <b>2014</b> , 79, 8278-87	60
1777	Oxidative synthesis of benzamides from toluenes and DMF. <b>2014</b> , 55, 5082-5084	35
1776	Aerobic direct C-H arylation of nonbiased olefins. <b>2014</b> , 16, 4432-5	39
1775	Aniline carbamates: a versatile and removable motif for palladium-catalyzed directed C-H activation. <b>2014</b> , 20, 12066-70	25
1774	Access to $\beta$ -lactams by enantioselective palladium(0)-catalyzed C(sp <sup>3</sup> )-H alkylation. <b>2014</b> , 53, 9064-7	105
1773	Design and synthesis of imidazo[1,2- $\beta$ ][1,8]naphthyridine derivatives as anti-HCV agents via direct C-H arylation. <b>2014</b> , 12, 2344-8	23

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1749	Direct arylation of C(sp <sup>3</sup> )-H bonds in aliphatic amides with diaryliodonium salts in the presence of a nickel catalyst. <b>2014</b> , 79, 11933-9	118
1748	A tandem reaction of 2-alkynylbenzaloximes with cyclic ethers co-catalyzed by silver(I) triflate and copper(II) acetate. <b>2014</b> , 70, 6728-6732	11
1747	Rh(III)-catalyzed selective coupling of N-methoxy-1H-indole-1-carboxamides and aryl boronic acids. <b>2014</b> , 16, 3560-3	87
1746	Palladium-catalyzed intramolecular asymmetric C-H functionalization/cyclization reaction of metallocenes: an efficient approach toward the synthesis of planar chiral metallocene compounds. <b>2014</b> , 136, 4472-5	156
1745	Palladium-Catalyzed Direct $\beta$ -Arylation of Benzyl Thioethers with Aryl Bromides. <b>2014</b> , 356, 2517-2524	16
1744	$\beta$ -MsO/TsO/Cl-Ketone als oxidierte Alkin- $\beta$ äquivalente: redoxneutrale Rhodium(III)-katalysierte C-H-Aktivierung zur Synthese von N-Heterocyclen. <b>2014</b> , 126, 2792-2796	35
1743	Access to cinnamyl derivatives from arenes and allyl esters by a biomimetic aerobic oxidative dehydrogenative coupling. <b>2014</b> , 16, 1664-7	42
1742	Triazole-assisted ruthenium-catalyzed C-H arylation of aromatic amides. <b>2014</b> , 20, 9739-43	61
1741	Modular assembly of ring-fused and $\beta$ -extended phenanthroimidazoles via C-H activation and alkyne annulation. <b>2014</b> , 79, 3930-6	66
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1739	Cleavage of C-C and C-Si $\beta$ bonds and their intramolecular exchange. <b>2014</b> , 136, 5912-5	102
1738	A non-heme cationic Fe(III)-complex intercalated in montmorillonite K-10: synthesis, characterization and catalytic alkane hydroxylation with H <sub>2</sub> O <sub>2</sub> at room temperature. <b>2014</b> , 4, 3180-3185	8
1737	Chemoselective aerobic oxidation catalyzed by a metal/stable organoradical redox conjugate. <b>2014</b> , 55, 3738-3746	42

1736	Palladium-catalyzed C(sp <sup>3</sup> )-H arylation using formamide as a transformable directing group. <b>2014</b> , 79, 4751-6	14
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1728	Development of Cobalt-Catalyzed C-H Bond Functionalization Reactions. <b>2014</b> , 87, 843-857	96
1727	Ruthenium-katalysierte gekreuzte dehydrierende ortho-N-Carbazolierung von Diarylaminen: ein vielseitiger Zugang zu unsymmetrischen Diaminen. <b>2014</b> , 126, 3573-3577	24
1726	Intermolecular Domino Reaction of Two Aryl Iodides Involving Two C-H Functionalizations. <b>2014</b> , 126, 5247-5251	30
1725	Rhodium(II)-Catalyzed Nondirected Oxidative Alkenylation of Arenes: Arene Loading at One Equivalent. <b>2014</b> , 126, 2721-2724	16
1724	Eisen-katalysierte C(sp <sup>2</sup> )-H- und C(sp <sup>3</sup> )-H-Arylierung mit Triazol-Unterstützung. <b>2014</b> , 126, 3949-3952	55
1723	Late-Stage Functionalization of Biologically Active Heterocycles Through Photoredox Catalysis. <b>2014</b> , 126, 4902-4906	102
1722	Chiral Cp-Rhodium(III)-Catalyzed Asymmetric Hydroarylations of 1,1-Disubstituted Alkenes. <b>2014</b> , 126, 517-521	106
1721	Aromatic Homologation by Non-Chelate-Assisted Rh(III)-Catalyzed C-H Functionalization of Arenes with Alkynes. <b>2014</b> , 126, 3552-3555	48
1720	Synthesis of Axially Chiral Biaryls through Sulfoxide-Directed Asymmetric Mild C-H Activation and Dynamic Kinetic Resolution. <b>2014</b> , 126, 14091-14095	80
1719	Rhodium(III)/Copper(II)-Promoted trans-Selective Heteroaryl Acyloxylation of Alkynes: Stereodefined Access to trans-Enol Esters. <b>2014</b> , 126, 14803-14807	8

1718	Manganese-Mediated Coupling Reaction of Vinylarenes and Aliphatic Alcohols. <b>2015</b> , 5, 15250	17
1717	The Nickel(II)-Catalyzed Direct Benzoylation, Allylation, Alkylation, and Methylation of C-H Bonds in Aromatic Amides Containing an 8-Aminoquinoline Moiety as the Directing Group. <b>2015</b> , 88, 438-446	74
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1715	Pd(OAc) <sub>2</sub> -catalyzed Lactonization of Arylacetamides Involving Oxidation of C-H Bonds. <b>2015</b> , 44, 621-623	11
1714	Pd(II)-catalyzed Chelation-assisted Cross Dehydrogenative Coupling between Unactivated C(sp <sup>3</sup> )-H Bonds in Aliphatic Amides and Benzylic C-H Bonds in Toluene Derivatives. <b>2015</b> , 44, 1365-1367	26
1713	Nickel Catalysts/N,N'-Bidentate Directing Groups: An Excellent Partnership in Directed C-H Activation Reactions. <b>2015</b> , 44, 410-421	341
1712	Pd-Catalyzed Functionalization of the Thienyltrifluoroacetone Coligands by Aromatic Dyes in Bis(cyclometallated) Ir(III) Complexes: From Phosphorescence to Fluorescence? <b>2015</b> , 2015, 2956-2964	9
1711	Pd-Catalyzed Direct Arylation of Heteroaromatics Using (Poly)halobenzenesulfonyl Chlorides as Coupling Partners: One Step Access to (Poly)halo-Substituted Bi(hetero)aryls. <b>2015</b> , 2015, 4428-4436	26
1710	Copper/Selectfluor-System-Catalyzed Dehydration/Oxidation of Tertiary Cycloalcohols: Access to $\beta$ -Substituted Cyclohex-2-enones, 4-Arylcoumarins, and Biaryls. <b>2015</b> , 2015, 5381-5388	15
1709	Mangankatalysierte Synthese von cis- $\beta$ -Aminosäureestern mittels metallorganischer C-H-Aktivierung von Ketaminen. <b>2015</b> , 127, 4165-4169	71
1708	Cobalt(III)-katalysierte C-H-Aminocarbonylierung von Arenen und Alkenen mit Isocyanaten und Acylaziden. <b>2015</b> , 127, 8671-8674	64
1707	Palladium-Catalyzed Direct C-H Arylation of Isoxazoles at the 5-Position. <b>2015</b> , 54, 9572-6	36
1706	A [4+1] Cyclative Capture Approach to 3H-Indole-N-oxides at Room Temperature by Rhodium(III)-Catalyzed C-H Activation. <b>2015</b> , 54, 15400-4	103
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1704	Cobalt(III)-Catalyzed Dehydrative [4+2] Annulation of Oxime with Alkyne by C-H and N-OH Activation. <b>2015</b> , 21, 15529-33	170
1703	Palladium(II)-Catalyzed meta-C-H Olefination: Constructing Multisubstituted Arenes through Homo-Diolefination and Sequential Hetero-Diolefination. <b>2015</b> , 127, 8635-8639	57
1702	Palladium(II)-Catalyzed meta-C-H Olefination: Constructing Multisubstituted Arenes through Homo-Diolefination and Sequential Hetero-Diolefination. <b>2015</b> , 54, 8515-9	177
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1682	Manganese(I)-Catalyzed C <sup>β</sup> H Aminocarbonylation of Heteroarenes. <b>2015</b> , 127, 14343-14346	51
1681	Manganese(I)-Catalyzed C-H Aminocarbonylation of Heteroarenes. <b>2015</b> , 54, 14137-40	114
1680	Rhodium(III)-Catalyzed ortho-Heteroarylation of Phenols through Internal Oxidative C-H Activation: Rapid Screening of Single-Molecular White-Light-Emitting Materials. <b>2015</b> , 54, 14008-12	125
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1676	Simple synthesis of P(Cbz-alt-TBT) and PCDTBT by combining direct arylation with suzuki polycondensation of heteroaryl chlorides. <b>2015</b> , 36, 231-7	28
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1672	Rhodium(III)-Catalyzed ortho C <sup>2</sup> H Heteroarylation of (Hetero)aromatic Carboxylic Acids: A Rapid and Concise Access to $\beta$ -Conjugated Poly-heterocycles. <b>2015</b> , 127, 7273-7276	31
1671	Palladium-Catalyzed Direct C <sup>2</sup> H Arylation of Isoxazoles at the 5-Position. <b>2015</b> , 127, 9708-9712	8
1670	Palladium-Catalyzed Heteroarylation and Concomitant ortho-Alkylation of Aryl Iodides. <b>2015</b> , 127, 13595-13598	1
1669	Cp*Co(III) Catalyzed Site-Selective C <sup>2</sup> H Activation of Unsymmetrical O-Acyl Oximes: Synthesis of Multisubstituted Isoquinolines from Terminal and Internal Alkynes. <b>2015</b> , 127, 13160-13164	87
1668	Late-Stage Peptide Diversification by Bioorthogonal Catalytic C-H Arylation at 23 °C in H <sub>2</sub> O. <b>2015</b> , 21, 9980-3	81
1667	Palladium-Catalyzed Carbonylative Cyclization of Arenes by C-H Bond Activation with DMF as the Carbonyl Source. <b>2015</b> , 21, 16370-3	63
1666	CF <sub>3</sub> -Carbenoid C <sup>β</sup> H Functionalization of (Hetero)arenes under Chelation-Controlled Rh(III) Catalysis. <b>2015</b> , 2015, 4950-4955	23
1665	Recent Advances in First-Row-Transition-Metal-Catalyzed Dehydrogenative Coupling of C(sp <sup>3</sup> ) <sup>β</sup> H Bonds. <b>2015</b> , 2015, 7859-7868	167

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1321	Amino Acid Ligands for Ruthenium(II)-Catalyzed C $\beta$ Arylation of Aryltetrazoles with Chlorides: Expedient Access to Antihypertension Drugs. <b>2016</b> , 2016, 3700-3704	23
1320	Visible-Light-Promoted Dual C-C Bond Formations of Alkynoates via a Domino Radical Addition/Cyclization Reaction: A Synthesis of Coumarins. <b>2016</b> , 18, 3846-9	76
1319	Cobaltkatalysierte C-H-Thiolierung durch dehydrierende Kreuzkupplung. <b>2016</b> , 128, 11457-11461	51
1318	Triiodide-Mediated $\beta$ Amination of Secondary C-H Bonds. <b>2016</b> , 55, 9974-8	181
1317	Diketopyrrolopyrrole-based oligomers accessed via sequential C H activated coupling for fullerene-free organic photovoltaics. <b>2016</b> , 134, 139-147	34
1316	Ruthenium(0)-catalyzed hydroarylation of alkynes via ketone-directed C-H functionalization using in situ-generated ruthenium complexes. <b>2016</b> , 52, 9715-8	28
1315	Remote C-H Functionalization by a Palladium-Catalyzed Transannular Approach. <b>2016</b> , 55, 10558-60	9
1314	Cobalt-catalyzed chelation assisted C-H allylation of aromatic amides with unactivated olefins. <b>2016</b> , 52, 10129-32	75
1313	Synthesis of Complex Druglike Molecules by the Use of Highly Functionalized Bench-Stable Organozinc Reagents. <b>2016</b> , 128, 13918-13922	21
1312	Iridium(III)-Catalyzed Regioselective Carbenoid Insertion C $\beta$ Alkylation by $\beta$ -Diazotized Meldrum's Acid. <b>2016</b> , 2016, 5637-5641	35
1311	Synthesis of Difluorinated Enynes through Sonogashira-Type Coupling. <b>2016</b> , 18, 5688-5691	17
1310	Palladium-Catalyzed Selective Aryl Ring C $\beta$ Activation of N-Acyl-2-aminobiaryls: Efficient Access to Multiaryl-Substituted Naphthalenes. <b>2016</b> , 358, 3642-3648	15
1309	Pd(II)-Catalyzed Bidentate Directing Group-Aided Chemoselective Acetoxylation of Remote $\beta$ -C(sp)-H Bonds in Heteroaryl-Aryl-Based Biaryl Systems. <b>2016</b> , 81, 12197-12211	21
1308	Direct ortho-Arylation of Pyridinecarboxylic Acids: Overcoming the Deactivating Effect of sp-Nitrogen. <b>2016</b> , 18, 6094-6097	24
1307	A general catalytic $\beta$ -C-H carbonylation of aliphatic amines to $\beta$ -lactams. <b>2016</b> , 354, 851-857	155
1306	Improving photosynthesis and crop productivity by accelerating recovery from photoprotection. <b>2016</b> , 354, 857-861	628
1305	Copper(II)-Catalyzed Benzylic C(sp)-H Aerobic Oxidation of (Hetero)Aryl Acetimidates: Synthesis of Aryl- $\beta$ -ketoesters. <b>2016</b> , 81, 12247-12257	35

1304	Regiocontrolled Coupling of Aromatic and Vinylic Amides with $\beta$ -Allenols To Form $\beta$ -Lactams via Rhodium(III)-Catalyzed C-H Activation. <b>2016</b> , 18, 5668-5671	69
1303	Rhodium-Catalyzed Hydrogen-Releasing ortho-Alkenylation of 7-Azaindoles. <b>2016</b> , 22, 17926-17929	34
1302	C $\equiv$ N Activation on an Oxo-Bridged Ditungsten Complex: From Alkyl to $\beta$ -Alkylidene Functionalities. <b>2016</b> , 35, 2488-2493	5
1301	Palladium-Catalyzed Cascade sp <sup>2</sup> C $\equiv$ N Bond Functionalizations Allowing One-Pot Access to 4-Aryl-1,2,3,4-tetrahydroquinolines from N-Allyl-N-arylsulfonamides. <b>2016</b> , 6, 8121-8126	20
1300	Enantiopure Sulfinyl Aniline as a Removable and Recyclable Chiral Auxiliary for Asymmetric C(sp <sup>3</sup> )-H Bond Activation. <b>2016</b> , 22, 17397-17406	41
1299	Remote meta C-H bond functionalization of 2-phenethylsulphonic acid and 3-phenylpropanoic acid derivatives. <b>2016</b> , 52, 13916-13919	41
1298	Ruthenium(ii)-catalyzed C-H functionalizations on benzoic acids with aryl, alkenyl and alkynyl halides by weak-O-coordination. <b>2016</b> , 52, 13171-13174	62
1297	Stereoselective alkoxycarbonylation of unactivated C(sp <sup>3</sup> )-H bonds with alkyl chloroformates via Pd(II)/Pd(IV) catalysis. <b>2016</b> , 7, 12901	55
1296	One-Pot Synthesis of Decahydropyrene via Tandem C-H Activation/Intramolecular Diels-Alder/1,3-Dipolar Cycloaddition. <b>2016</b> , 18, 5524-5527	12
1295	Palladium-catalyzed direct arylation and cyclization of o-iodobiaryls to a library of tetraphenylenes. <b>2016</b> , 6, 33131	29
1294	Retracted: Palladium-Catalyzed Decarboxylative Selective Acylation of 4H-Benzo[d][1,3]oxazin-4-one Derivatives with $\beta$ -Oxo Carboxylic acids via Preferential Cyclic Imine-N-Directed Aryl C $\equiv$ N Activation. <b>2016</b> , 358, 283-295	17
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1292	Palladium-Catalyzed Divergent Arylation with Triazolopyridines: One-Pot Synthesis of 6-Aryl-2- $\beta$ -styrylpyridines. <b>2016</b> , 358, 958-964	21
1291	Palladium-Catalyzed Remote ortho-C $\equiv$ H Alkenylation of Alkyl Aryl Sulfones: Access to Densely Functionalized Indane Derivatives. <b>2016</b> , 358, 1065-1072	14
1290	Ruthenium(II)-Catalyzed Decarboxylative C $\equiv$ N Activation: Versatile Routes to meta-Alkenylated Arenes. <b>2016</b> , 128, 7043-7046	37
1289	Inserting CO <sub>2</sub> into Aryl C $\equiv$ N Bonds of Metal/Organic Frameworks: CO <sub>2</sub> Utilization for Direct Heterogeneous C $\equiv$ N Activation. <b>2016</b> , 128, 5562-5566	36
1288	Generation of Alkoxy Radicals by Photoredox Catalysis Enables Selective C(sp <sup>3</sup> )-H Functionalization under Mild Reaction Conditions. <b>2016</b> , 55, 1872-5	198
1287	Ligand-Enabled Arylation of $\beta$ -C-H Bonds. <b>2016</b> , 55, 4317-21	87

1286	Ruthenium(II)-Catalyzed Decarboxylative C-H Activation: Versatile Routes to meta-Alkenylated Arenes. <b>2016</b> , 55, 6929-32	151
1285	Manganese(I)-Catalyzed Substitutive C-H Allylation. <b>2016</b> , 55, 7747-50	156
1284	Oxidative C-H Activation Approach to Pyridone and Isoquinolone through an Iron-Catalyzed Coupling of Amides with Alkynes. <b>2016</b> , 11, 380-4	58
1283	Hypervalent Iodine Chemistry. <b>2016</b> ,	88
1282	Charge-transfer-directed radical substitution enables para-selective C-H functionalization. <i>Nature Chemistry</i> , <b>2016</b> , 8, 810-5	17.6 146
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1279	Sodium chlorate as a viable substoichiometric oxidant for cobalt-catalyzed oxidative annulation of aryl sulfonamides with alkynes. <b>2016</b> , 57, 3322-3325	18
1278	Pd-Catalyzed and Copper Assisted Regioselective Sequential C2 and C7 Arylation of Thiazolo[5,4-f]quinazolin-9(8H)-one with Aryl Halides. <b>2016</b> , 18, 3282-5	16
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1273	Reactivity of 1-(2-bromobenzyl)-4-halopyrazoles in intermolecular and intramolecular Pd-catalysed direct arylations. <b>2016</b> , 72, 4312-4320	13
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1268	Unraveling the Competition of Two C-H and Two M-C Bonds in Guiding the Mechanism of Rhodium(III)-Catalyzed C-H Activation/Annulation. <b>2016</b> , 6, 5132-5137	30
1267	Reactivity of (poly)fluorobenzamides in palladium-catalysed direct arylations. <b>2016</b> , 6, 62866-62875	9
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1265	Ruthenium-Catalyzed Synthesis of Heterocycles via C-H Bond Activation. <b>2016</b> , 187-232	0
1264	Ruthenium Oxidase Catalysis for Site-Selective C-H Alkenylations with Ambient O <sub>2</sub> as the Sole Oxidant. <b>2016</b> , 128, 272-275	46
1263	Expedient Iron-Catalyzed C-H Allylation/Alkylation by Triazole Assistance with Ample Scope. <b>2016</b> , 128, 1506-1510	50
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1259	Bonding and Reactivity of a Dicopper(I) Boryl Cation. <b>2016</b> , 35, 71-74	15
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1252	Palladium(II)-catalyzed synthesis of dibenzothiophene derivatives the cleavage of carbon-sulfur and carbon-hydrogen bonds. <b>2016</b> , 7, 2587-2591	63
1251	Recent advances in transition metal (Pd, Ni)-catalyzed C(sp <sup>3</sup> )H bond activation with bidentate directing groups. <b>2016</b> , 57, 819-836	105



1250	Cobalt(iii) catalyzed C-8 selective C-H and C-O coupling of quinoline N-oxide with internal alkynes via C-H activation and oxygen atom transfer. <b>2016</b> , 52, 1338-41	120
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1242	Selective Heterogeneous C-H Activation/Halogenation Reactions Catalyzed by Pd@MOF Nanocomposites. <b>2016</b> , 22, 3729-37	61
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1240	Palladium-catalysed transannular C-H functionalization of alicyclic amines. <b>2016</b> , 531, 220-224	235
1239	Iridium(iii)-bis(imidazolynyl)phenyl catalysts for enantioselective C-H functionalization with ethyl diazoacetate. <b>2016</b> , 7, 3142-3146	46
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1233	Mechanism and Regioselectivity of Rh(III)-Catalyzed Intermolecular Annulation of Aryl-Substituted Diazenecarboxylates and Alkenes: DFT Insights. <b>2016</b> , 35, 450-455	10

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1228	Ru-Catalyzed C-H Arylation of Fluoroarenes with Aryl Halides. <b>2016</b> , 138, 3596-606	98
1227	Heterogeneous catalytic approaches in C-H activation reactions. <b>2016</b> , 18, 3471-3493	159
1226	Palladium-Silver Cooperativity in an Aryl Amination Reaction through C-H Functionalization. <b>2016</b> , 6, 696-708	61
1225	Metal-Free CH-CH-Type Cross-Coupling of Arenes and Alkynes Directed by a Multifunctional Sulfoxide Group. <b>2016</b> , 138, 790-3	89
1224	Mechanism and Origins of Ligand-Controlled Linear Versus Branched Selectivity of Iridium-Catalyzed Hydroarylation of Alkenes. <b>2016</b> , 6, 809-820	92
1223	Synthesis of substituted benzo[ <i>ij</i> ]imidazo[2,1,5- <i>de</i> ]quinolizine by rhodium(III)-catalyzed multiple C-H activation and annulations. <b>2016</b> , 14, 1814-21	29
1222	Aqueous Compatible Protocol to Both Alkyl and Aryl Thioamide Synthesis. <b>2016</b> , 18, 340-3	76
1221	Manganese- and Borane-Mediated Synthesis of Isobenzofuranones from Aromatic Esters and Oxiranes via C-H Bond Activation. <b>2016</b> , 18, 304-7	113
1220	Rhenium and base co-catalyzed [3 + 2] annulations of N-H ketimines and alkynes to access unprotected tertiary indenamines through C-H bond activation. <b>2016</b> , 3, 268-272	35
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1216	Cobalt-Catalyzed Benzylic Borylation: Enabling Polyborylation and Functionalization of Remote, Unactivated C(sp <sup>3</sup> )-H Bonds. <b>2016</b> , 138, 766-9	142
1215	Switching of Bover Pathway in Rhodium(III)-Catalyzed C-H Activation of Chelating Molecules. <b>2016</b> , 6, 709-713	58

1214	Direct C-H Alkenylation of Functionalized Pyrazoles. <b>2016</b> , 81, 689-98	38
1213	C-H-Activated Direct Arylation of Strong Benzothiadiazole and Quinoxaline-Based Electron Acceptors. <b>2016</b> , 81, 360-70	29
1212	C-H Bond Activation and Catalytic Functionalization I. <b>2016</b> ,	26
1211	C6-Selective Direct Alkylation of Pyridones with Diazo Compounds under Rh(III)-Catalyzed Mild Conditions. <b>2016</b> , 81, 842-8	73
1210	Rh(III)-Catalyzed Diastereoselective C-H Bond Addition/Cyclization Cascade of Enone Tethered Aldehydes. <b>2016</b> , 7, 1474-1479	75
1209	Cobalt-Catalyzed C-H Activation. <b>2016</b> , 6, 498-525	916
1208	Ester-directed Ru-catalyzed C-O activation/C-C coupling reaction of ortho-methoxy naphthoates with organoboroneopentylates. <b>2016</b> , 52, 1681-4	20
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1205	Synthesis of open-shell ladder $\beta$ systems by catalytic C-H annulation of diarylacetylenes. <b>2016</b> , 7, 650-654	25
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1203	Rh(III)-catalyzed aromatic C-H bond carbenoid functionalization of 1,2,4-triazines by $\beta$ -diazomalonate. <b>2016</b> , 72, 2725-2730	15
1202	Ruthenium(II)-Catalyzed meta C-H Mono- and Difluoromethylations by Phosphine/Carboxylate Cooperation. <b>2017</b> , 129, 2077-2081	55
1201	Ruthenium(II)-Catalyzed meta C-H Mono- and Difluoromethylations by Phosphine/Carboxylate Cooperation. <b>2017</b> , 56, 2045-2049	141
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1198	C-O Activation by a Rhodium Bis(N-Heterocyclic Carbene) Catalyst: Aryl Carbamates as Arylating Reagents in Directed C-H Arylation. <b>2017</b> , 56, 1877-1880	27
1197	meta-C-H Bromination on Purine Bases by Heterogeneous Ruthenium Catalysis. <b>2017</b> , 129, 1579-1582	25

1196	Bioorthogonal Diversification of Peptides through Selective Ruthenium(II)-Catalyzed C-H Activation. <b>2017</b> , 56, 1576-1580	111
1195	Functionalization of C-H Bonds by Photoredox Catalysis. <b>2017</b> , 17, 754-774	51
1194	Cp*Rh(iii)-catalyzed C(sp)-H alkylation of 8-methylquinolines in aqueous media. <b>2017</b> , 53, 3006-3009	45
1193	Biomass-derived solvents as effective media for cross-coupling reactions and C-H functionalization processes. <b>2017</b> , 19, 1601-1612	143
1192	Bioorthogonal Diversification of Peptides through Selective Ruthenium(II)-Catalyzed C-H Activation. <b>2017</b> , 129, 1598-1602	56
1191	Synthesis of 2,2,2-Trichloroethyl Aryl- and Vinyldiazoacetates by Palladium-Catalyzed Cross-Coupling. <b>2017</b> , 23, 3272-3275	16
1190	Unprecedented Access to $\beta$ -Arylated Selenophenes through Palladium-Catalysed Direct Arylation. <b>2017</b> , 23, 2788-2791	22
1189	Cobalt(II)-Catalyzed Oxidative C-H Arylation of Indoles and Boronic Acids. <b>2017</b> , 19, 596-599	77
1188	Ruthenium-Catalyzed meta-Selective C-H Mono- and Difluoromethylation of Arenes through ortho-Metalation Strategy. <b>2017</b> , 23, 3285-3290	84
1187	Cobalt-Catalyzed Annulation of Amides with Isocyanides via C(sp)-H Activation. <b>2017</b> , 82, 2223-2230	36
1186	Palladium-Catalyzed Redox-Neutral N-O/C(sp)-H Functionalization of Aryl Oximes with Isocyanides. <b>2017</b> , 19, 678-681	40
1185	Cobalt-Catalyzed Regioselective Borylation of Arenes: N-Heterocyclic Silylene as an Electron Donor in the Metal-Mediated Activation of C-H Bonds. <b>2017</b> , 23, 5663-5667	60
1184	Oxidation of Aryl sp <sup>2</sup> C-H Bond on Heteroarene or Perfluoroarene. <b>2017</b> , 433-481	
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1182	Manganese-catalyzed allylation sequential C-H and C-C/C-Het bond activation. <b>2017</b> , 8, 3379-3383	124
1181	Theoretical prediction on the synthesis of 2,3-dihydropyridines through Co(III)-catalysed reaction of unsaturated oximes with alkenes. <b>2017</b> , 117, e25353	1
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- 1165 Manganese-Catalyzed C-H Alkynylation: Expedient Peptide Synthesis and Modification. **2017**, 129, 3220-3224 85
- 1164 Manganese-Catalyzed C-H Alkynylation: Expedient Peptide Synthesis and Modification. **2017**, 56, 3172-3176 204
- 1163 Revisiting the Intermolecular Fujiwara Hydroarylation of Alkynes. **2017**, 2017, 1794-1803 12
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- 1161 Direct Access to Indoles by Ir(III)-Catalyzed C-H Functionalization of Acetanilides with Diazo Compounds. **2017**, 2017, 2272-2279 28

1160	Oxalyl Boronates Enable Modular Synthesis of Bioactive Imidazoles. <b>2017</b> , 56, 6264-6267	54
1159	Organocatalysis in Inert C-H Bond Functionalization. <b>2017</b> , 117, 9433-9520	403
1158	Rhodium(III)-Catalyzed Controllable C-H Bond Functionalization of Benzamides and Vinylidenecyclopropanes: A Directing Group Determined Reaction Pathway. <b>2017</b> , 359, 974-983	23
1157	Rhodium-Catalyzed meta-C-H Functionalization of Arenes. <b>2017</b> , 129, 5356-5360	19
1156	Rhodium-Catalyzed meta-C-H Functionalization of Arenes. <b>2017</b> , 56, 5272-5276	71
1155	Ruthenium(II)-catalyzed C-H alkenylation/annulation cascade for the rapid synthesis of benzoimidazoisindoles. <b>2017</b> , 4, 1358-1362	15
1154	Regio- and Diastereoselective Cross-Dehydrogenative Coupling of Tetrahydropyridines with 1,3-Dicarbonyl Compounds. <b>2017</b> , 19, 2146-2149	24
1153	Substrate-Selective C-H Functionalization for the Preparation of Organosulfur Compounds from Crude Oil-Derived Components. <b>2017</b> , 2, 1419-1423	2
1152	Cobalt-Catalyzed Selective Synthesis of Isoquinolines Using Picolinamide as a Traceless Directing Group. <b>2017</b> , 19, 2102-2105	74
1151	Merging C-H and C-C bond cleavage in organic synthesis. <b>2017</b> , 1,	107
1150	Ruthenium(II)-Catalyzed Indolo[2,1-a]isoquinolines Synthesis by Tandem C-H Allylation and Oxidative Cyclization of 2-Phenylindoles with Allyl Carbonates. <b>2017</b> , 19, 2258-2261	48
1149	Rhodium(III)-Catalyzed Cascade Redox-Neutral C-H Functionalization and Aromatization: Synthesis of Unsymmetrical ortho-Biphenols. <b>2017</b> , 359, 1643-1648	19
1148	Cp*Rh(III)/Bicyclic Olefin Cocatalyzed C-H Bond Amidation by Intramolecular Amide Transfer. <b>2017</b> , 139, 6506-6512	93
1147	Palladium(II)-catalyzed ortho-C-H olefination of phenylalanine and phenylethylamine derivatives directed by removable picolinamide group. <b>2017</b> , 7, 25031-25040	18
1146	Rhodium(I)-Catalyzed Tertiary Phosphine Directed C-H Arylation: Rapid Construction of Ligand Libraries. <b>2017</b> , 129, 7339-7343	24
1145	Rhodium(I)-Catalyzed Tertiary Phosphine Directed C-H Arylation: Rapid Construction of Ligand Libraries. <b>2017</b> , 56, 7233-7237	62
1144	Nickel-Catalyzed C(sp <sup>2</sup> )-H/C(sp <sup>3</sup> )-H Oxidative Coupling of Indoles with Toluene Derivatives. <b>2017</b> , 7, 4202-4208	60
1143	Air-Stable Manganese(I)-Catalyzed C-H Activation for Decarboxylative C-H/C-D Cleavages in Water. <b>2017</b> , 129, 6436-6439	49

- 1142 Iridium-Catalyzed Direct Regioselective C4-Amidation of Indoles under Mild Conditions. **2017**, 19, 2502-2505 65
- 1141 Palladium-Catalyzed C-H Trifluoroethoxylation of N-Sulfonylbenzamides. **2017**, 19, 2746-2749 29
- 1140 Palladium-Catalyzed C-H Bond Functionalization of 6,6-Diphenylfulvenes: An Easier Access to C1-Arylated and C1,C4-Diarylated Fulvenes. **2017**, 19, 2584-2587 12
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1121	Direct Amination of Polyethylene by Metal-Free Reaction. <b>2017</b> , 50, 3510-3515	27
1120	Ni- and Fe-Based Cross-Coupling Reactions. <b>2017</b> ,	4
1119	Nickel-Catalyzed Aerobic Oxidative Isocyanide Insertion: Access to Benzimidazoquinazoline Derivatives via a Sequential Double Annulation Cascade (SDAC) Strategy. <b>2017</b> , 82, 331-342	32
1118	Direct C3-Arylation of 2 H-Indazole Derivatives with Aryl Bromides by using Low Loading of a Phosphine-free Palladium Catalyst. <b>2017</b> , 9, 2239-2249	19
1117	Rhodium-Catalyzed [3 + 2] Annulation of Cyclic N-Acyl Ketimines with Activated Olefins: Anticancer Activity of Spiroisindolinones. <b>2017</b> , 82, 3359-3367	66
1116	Rhodium-catalyzed C-H functionalization with N-acylsaccharins. <b>2017</b> , 15, 536-540	50
1115	Rhodium(III)-catalyzed directed C-H benzylation and allylation of indoles with organosilicon reagents. <b>2017</b> , 4, 303-307	16
1114	N-O Bond as External Oxidant in Group 9 Cp*M(III)-Catalyzed Oxidative C-H Coupling Reactions. <b>2017</b> , 7, 5078-5086	50
1113	C-H Alkenylation of Heteroarenes: Mechanism, Rate, and Selectivity Changes Enabled by Thioether Ligands. <b>2017</b> , 139, 9605-9614	60
1112	Synthesis of multi-substituted cyclobutenes: Cyclic strategy for [2 + 2] cycloaddition of ketene silyl acetals with propiolates. <b>2017</b> , 58, 2944-2947	6
1111	Synthesis of Donor/Acceptor-Substituted Diazo Compounds in Flow and Their Application in Enantioselective Dirhodium-Catalyzed Cyclopropanation and C-H Functionalization. <b>2017</b> , 19, 3055-3058	25
1110	meta-Selective C-H difluoromethylation of various arenes with a versatile ruthenium catalyst. <b>2017</b> , 4, 1867-1871	31
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1107	Copper(II)-Catalyzed Aerobic Oxidative Desulfative 6 $\pi$ Electrocyclization: Efficient Synthesis of Diverse 4-Aminoquinolines. <b>2017</b> , 359, 2457-2470	13

1106	Rhenium-Catalyzed Annulation Reactions. <b>2017</b> , 2017, 3549-3564	37
1105	Full Selectivity Control in Cobalt(III)-Catalyzed C <sub>sp</sub> Alkylations by Switching of the C <sub>sp</sub> Activation Mechanism. <b>2017</b> , 129, 10514-10518	81
1104	Full Selectivity Control in Cobalt(III)-Catalyzed C-H Alkylations by Switching of the C-H Activation Mechanism. <b>2017</b> , 56, 10378-10382	194
1103	Iridium(I)-Catalyzed Intramolecular Hydrocarbonation of Alkenes: Efficient Access to Cyclic Systems Bearing Quaternary Stereocenters. <b>2017</b> , 56, 9541-9545	40
1102	What Is the Structure of the Antitubercular Natural Product Eucapsitrone?. <b>2017</b> , 82, 7287-7299	11
1101	Manganese-Catalyzed C-H Functionalizations: Hydroarylations and Alkenylations Involving an Unexpected Heteroaryl Shift. <b>2017</b> , 56, 9935-9938	113
1100	Direct Functionalization of C-H Bonds by Iron, Nickel, and Cobalt Catalysis. <b>2017</b> , 23, 9206-9232	136
1099	Ruthenium(II)-catalysed remote C-H alkylations as a versatile platform to meta-decorated arenes. <b>2017</b> , 8, 15430	104
1098	A solid acetylene reagent with enhanced reactivity: fluoride-mediated functionalization of alcohols and phenols. <b>2017</b> , 19, 3032-3041	50
1097	The study of metal-free and palladium-catalysed synthesis of benzochromenes via direct C <sub>sp</sub> arylation using unactivated aryl benzyl ethers derived from essential oils as raw materials. <b>2017</b> , 4, 1736-1744	13
1096	Transition metal-catalyzed site- and regio-divergent C-H bond functionalization. <b>2017</b> , 46, 4299-4328	337
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1091	Sustainable, Oxidative, and Metal-Free Annulation. <b>2017</b> , 23, 10936-10946	11
1090	Programmed Site-Selective Palladium-Catalyzed Arylation of Thieno[3,2-b]thiophene. <b>2017</b> , 12, 2819-2826	4
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1088	Methylenecyclopropane Annulation by Manganese(I)-Catalyzed Stereoselective C-H/C-C Activation. <b>2017</b> , 56, 9415-9419	104
1087	Divergent Access to 1-Naphthols and Isocoumarins via Rh(III)-Catalyzed C-H Activation Assisted by Phosphonium Ylide. <b>2017</b> , 19, 3410-3413	63
1086	Expanding the Scope of Electron-Deficient C-H Building Blocks: Direct Arylation of Pyromellitic Acid Diimide. <b>2017</b> , 2, 2483-2488	15
1085	Methylenecyclopropane Annulation by Manganese(I)-Catalyzed Stereoselective C <sub>H</sub> /C <sub>C</sub> Activation. <b>2017</b> , 129, 9543-9547	39
1084	Nickel-Catalyzed C-H Silylation of Arenes with Vinylsilanes: Rapid and Reversible $\beta$ -Si Elimination. <b>2017</b> , 139, 9401-9407	33
1083	Incorporation of Carbon Dioxide into Carbamate Directing Groups: Palladium-Catalyzed meta-C <sub>H</sub> Olefination and Acetoxylation of Aniline Derivatives. <b>2017</b> , 359, 2235-2240	18
1082	Ru(II)-Catalyzed annulation of benzamides and alkynes by C-H/N-H activation: a facile synthesis of 1-aminoisoquinolines. <b>2017</b> , 15, 3491-3498	24
1081	Cp*Rh(III)-Catalyzed Mild Addition of C(sp)-H Bonds to $\alpha,\beta$ -Unsaturated Aldehydes and Ketones. <b>2017</b> , 19, 2086-2089	48
1080	Direct arylation polymerization toward a narrow bandgap donor-acceptor conjugated polymer of alternating 5,6-difluoro-2,1,3-benzothiadiazole and alkyl-quarternarythiophene: From synthesis, optoelectronic properties to devices. <b>2017</b> , 55, 1869-1879	15
1079	Recent advances in positional-selective alkenylations: removable guidance for twofold C <sub>H</sub> activation. <b>2017</b> , 4, 1435-1467	260
1078	Expeditious and Solvent-Free Nickel-Catalyzed C-H Arylation of Arenes and Indoles. <b>2017</b> , 10, 2242-2248	30
1077	Palladium-Catalyzed Formal (5 + 2) Annulation between ortho-Alkenylanilides and Allenes. <b>2017</b> , 19, 1674-1677	35
1076	Iron-Catalyzed C-H Bond Activation. <b>2017</b> , 117, 9086-9139	581
1075	Cp*Co(III)-catalyzed ortho-amidation of azobenzenes with dioxazolones. <b>2017</b> , 15, 3854-3859	30
1074	Palladium-Nanoparticles-Catalyzed Oxidative Annulation of Benzamides with Alkynes for the Synthesis of Isoquinolones. <b>2017</b> , 359, 1947-1958	29
1073	Electronic Control on Linear versus Branched Alkylation of 2-/3-Aroylbenzofurans with Acrylates: Combined DFT and Synthetic Studies. <b>2017</b> , 23, 7570-7581	8
1072	Ligand-Promoted Direct C <sub>H</sub> Arylation of Simple Arenes: Evidence for a Cooperative Bimetallic Mechanism. <b>2017</b> , 7, 3336-3343	50
1071	Visible-light-mediated radical insertion/cyclization cascade reaction: synthesis of phenanthridines and isoquinolines from isocyanides. <b>2017</b> , 53, 4585-4588	38

1070	Oxalyl Boronates Enable Modular Synthesis of Bioactive Imidazoles. <b>2017</b> , 129, 6360-6363	24
1069	(Pentamethylcyclopentadienyl)cobalt(III)-Catalyzed C $\equiv$ H Bond Functionalization: From Discovery to Unique Reactivity and Selectivity. <b>2017</b> , 359, 1245-1262	327
1068	Radicals in Action: A Festival of Radical Transformations. <b>2017</b> , 19, 1257-1269	36
1067	Catalytic Arene meta-C $\equiv$ H Functionalization Exploiting a Quinoline-Based Template. <b>2017</b> , 7, 3162-3168	63
1066	Access to (Hetero)arylated Selenophenes via Palladium-catalysed Stille, Negishi or Suzuki Couplings or C $\equiv$ H Bond Functionalization Reaction. <b>2017</b> , 9, 2895-2913	23
1065	Manganese(I)-Catalyzed Dispersion-Enabled C-H/C-C Activation. <b>2017</b> , 23, 5443-5447	79
1064	Rhodium(III)-Catalyzed Ortho-Alkenylation of Anilines Directed by a Removable Boc-Protecting Group. <b>2017</b> , 19, 1800-1803	24
1063	Palladium-Catalyzed $\beta$ -Mesylation of Simple Amide via Primary sp C-H Activation. <b>2017</b> , 19, 1768-1771	20
1062	Nickel-Catalyzed Cross-Coupling Reactions of Unreactive Phenolic Electrophiles via C $\equiv$ O Bond Activation. <b>2017</b> , 129-156	1
1061	Synthesis of N-Arylcarbazoles by Palladium-Catalyzed Direct C $\equiv$ H Arylation of 2-(Diarylamino)phenyl Triflates. <b>2017</b> , 2017, 892-895	5
1060	Mechanistic Study of Cp*Co/Rh-Catalyzed Directed C-H Functionalization with Diazo Compounds. <b>2017</b> , 82, 1195-1204	50
1059	Palladium-catalysed direct arylation of heteroarenes using 1-(bromophenyl)-1,2,3-triazoles as aryl source. <b>2017</b> , 92, 124-127	6
1058	Palladium-Catalyzed, ortho-Selective C-H Halogenation of Benzyl Nitriles, Aryl Weinreb Amides, and Anilides. <b>2017</b> , 82, 1114-1126	42
1057	Merging allylic C-H bond activation and C-C bond cleavage en route to the formation of a quaternary carbon stereocenter in acyclic systems. <b>2017</b> , 12, 74-87	13
1056	meta-C-H Bromination on Purine Bases by Heterogeneous Ruthenium Catalysis. <b>2017</b> , 56, 1557-1560	99
1055	One-pot synthesis of quaternary carbon centered cyclobutanes via Pd(ii)-catalyzed cascade C(sp)-H activations. <b>2017</b> , 53, 1534-1537	11
1054	Palladium-catalyzed acetoxylation of arenes by 1,2,3-triazole-directed CH activation. <b>2017</b> , 58, 614-617	15
1053	Combination of Cp*Rh -Catalyzed C-H Activation and a Wagner-Meerwein-Type Rearrangement. <b>2017</b> , 56, 1381-1384	75

1052	Visible-Light Photoredox Decarboxylative Couplings. <b>2017</b> , 6, 368-385	125
1051	A Robust and Broadly Applicable Cobalt-Catalyzed Cross-Coupling of Functionalized Bench-Stable Organozinc Pivalates with Unsaturated Halides. <b>2017</b> , 129, 1102-1106	16
1050	A Robust and Broadly Applicable Cobalt-Catalyzed Cross-Coupling of Functionalized Bench-Stable Organozinc Pivalates with Unsaturated Halides. <b>2017</b> , 56, 1082-1086	29
1049	Thioamide-Directed Cobalt(III)-Catalyzed Selective Amidation of C(sp <sup>3</sup> )-H Bonds. <b>2017</b> , 56, 16550-16554	103
1048	Inverting Steric Effects: Using "Attractive" Noncovalent Interactions To Direct Silver-Catalyzed Nitrene Transfer. <b>2017</b> , 139, 17376-17386	43
1047	Palladium-catalyzed direct sulfonylation of C-H bonds with the insertion of sulfur dioxide. <b>2017</b> , 53, 12548-12554	51
1046	Continuous direct anodic flow oxidation of aromatic hydrocarbons to benzyl amides. <b>2017</b> , 2, 822-825	15
1045	Synergistic Manganese(I) C-H Activation Catalysis in Continuous Flow: Chemoselective Hydroarylation. <b>2017</b> , 56, 15063-15067	90
1044	Synergistic Manganese(I) C-H Activation Catalysis in Continuous Flow: Chemoselective Hydroarylation. <b>2017</b> , 129, 15259-15263	31
1043	Organosilver(I) and organozinc(II) catalysed synthesis of quaterphenyls [Experimental and theoretical treatment. <b>2017</b> , 851, 160-183	1
1042	Ru-Catalysed synthesis of fused heterocycle-pyridinones and -pyrones. <b>2017</b> , 15, 8904-8913	9
1041	The $\beta$ -tertiary amine motif drives remarkable $\beta$ -selectivity for Pd-catalyzed carbonylation of $\beta$ -methylene C-H bonds. <b>2017</b> , 8, 8198-8203	47
1040	Stereoselective Sulfinyl Aniline-Promoted Pd-Catalyzed C-H Arylation and Acetoxylation of Aliphatic Amides. <b>2017</b> , 23, 15594-15600	22
1039	Dissymmetrization of Benzothiadiazole by Direct C-H Arylation: A Way to Symmetrical and Unsymmetrical Elongated $\pi$ -Conjugated Molecules. <b>2017</b> , 2017, 6872-6877	1
1038	Transition metal-catalyzed C-H bond functionalization in multicomponent reactions: a tool toward molecular diversity. <b>2017</b> , 15, 9031-9043	84
1037	Ruthenium-catalysed $\beta$ -activation for remote meta-selective C-H functionalisation. <b>2017</b> , 46, 7145-7153	202
1036	C-H Bond Functionalization by Mechanochemistry. <b>2017</b> , 23, 17157-17165	85
1035	Comparative investigation of the reactivities between catalysts [Cp*RhCl <sub>2</sub> ] <sub>2</sub> and [Cp*IrCl <sub>2</sub> ] <sub>2</sub> in the oxidative annulation of isoquinolones with alkynes: a combined experimental and computational study. <b>2017</b> , 4, 2327-2335	4

1034	Nickel-catalysed direct C2-arylation of N-heterocyclic carbenes. <b>2017</b> , 46, 12027-12031	27
1033	Late-Stage C-H Alkylation of Heterocycles and 1,4-Quinones via Oxidative Homolysis of 1,4-Dihydropyridines. <b>2017</b> , 139, 12251-12258	172
1032	Rhodium(iii)-catalyzed regio- and stereoselective benzylic $\beta$ -fluoroalkenylation with gem-difluorostyrenes. <b>2017</b> , 53, 10326-10329	60
1031	Rh-Catalyzed site-selective amidation with nitrene as a traceless directing group: an approach to functionalized arylaldehydes. <b>2017</b> , 53, 10322-10325	40
1030	Copper-Catalyzed Intermolecular Heck-Like Coupling of Cyclobutanone Oximes Initiated by Selective C-C Bond Cleavage. <b>2017</b> , 56, 12727-12731	153
1029	Asymmetric Iron-Catalyzed C-H Alkylation Enabled by Remote Ligand meta-Substitution. <b>2017</b> , 56, 14197-14205	5
1028	Asymmetric Iron-Catalyzed C $\beta$ Alkylation Enabled by Remote Ligand meta-Substitution. <b>2017</b> , 129, 14385-14389	38
1027	NH-Directed C-H Alkenylation of 2-Vinylanilines with Vinylbenziodoxolones. <b>2017</b> , 19, 5344-5347	28
1026	Copper-Catalyzed Intermolecular Heck-Like Coupling of Cyclobutanone Oximes Initiated by Selective C $\alpha$ Bond Cleavage. <b>2017</b> , 129, 12901-12905	25
1025	Mild Decarboxylative C-H Alkylation: Computational Insights for Solvent-Robust Ruthenium(II) Domino Manifold. <b>2017</b> , 23, 17449-17453	43
1024	Visible-Light-Mediated Aerobic Oxidation of N-Alkylpyridinium Salts under Organic Photocatalysis. <b>2017</b> , 139, 14237-14243	57
1023	Low Energy Electron Induced C $\beta$ Activation Reactions in Methane Containing Ices. <b>2017</b> , 121, 22862-22871	3
1022	Rhodium(III)-catalyzed synthesis of indanones via C $\beta$ activation of phenacyl phosphoniums and coupling with olefins. <b>2017</b> , 4, 2114-2118	15
1021	Synthesis of Benzopyrans by Enolate-Directed Rhodium-Catalyzed Oxidative C $\beta$ Alkenylation of 1,3-Dicarbonyl Compounds. <b>2017</b> , 6, 1598-1603	3
1020	Route to Substituted Furan-2(5H)-ones from cyclo-Alkenecarboxylic Acids and Acrylates via C-H Activation. <b>2017</b> , 82, 8598-8603	13
1019	Nickel-catalyzed C-H activation of purine bases with alkyl halides. <b>2017</b> , 53, 9113-9116	30
1018	Mild Cobalt(III)-Catalyzed Allylative C-F/C-H Functionalizations at Room Temperature. <b>2017</b> , 23, 12145-12148	85
1017	Synthesis, Characterization and Crystal Structure of New 2-Morpholinoethyl-Substituted Bis-(NHC)Pd(II) Complexes and the Catalytic Activity in the Direct Arylation Reaction. <b>2017</b> , 147, 2340-2351	31

1016	Chiral-pool synthesis of 1,2,4-trisubstituted 1,4-diazepanes as novel $\mu$ receptor ligands. <b>2017</b> , 25, 4778-4799	5
1015	Group 9 Transition Metal-Catalyzed C-H Halogenations. <b>2017</b> , 57, 945-952	28
1014	Iridium(I)-Catalyzed Intramolecular Hydrocarbonylation of Alkenes: Efficient Access to Cyclic Systems Bearing Quaternary Stereocenters. <b>2017</b> , 129, 9669-9673	12
1013	Sequential one pot double C-H heteroarylation of thiophene using bromopyridines to synthesize unsymmetrical 2,5-bipyridylthiophenes. <b>2017</b> , 73, 5509-5516	8
1012	Kombination von Cp*RhIII-katalysierter C-H-Aktivierung mit einer Variante der Wagner-Meerwein-Umlagerung. <b>2017</b> , 129, 1401-1405	19
1011	Regioselective C-H Bond Activation of Asymmetric Bis(ylide)s Promoted by Pd. <b>2017</b> , 2017, 2220-2230	8
1010	Quaternary Ammonium Salts as Alkylating Reagents in C-H Activation Chemistry. <b>2017</b> , 19, 4287-4290	19
1009	Redoxneutrale Mangan(I)-katalysierte C-H-Aktivierung: regioselektive Anellierung mithilfe einer spurlosen dirigierenden Gruppe. <b>2017</b> , 129, 12954-12958	38
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977	Cu-Catalyzed aromatic C-H imidation with -fluorobenzenesulfonimide: mechanistic details and predictive models. <b>2017</b> , 8, 988-1001	44
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816	Iridium-Catalyzed Electrooxidative C-H Activation by Chemoselective Redox-Catalyst Cooperation. <b>2018</b> , 130, 14375-14379	33
815	Rhodium(iii)-catalyzed three-component cascade synthesis of 6H-benzo[c]chromenes through C-H activation. <b>2018</b> , 16, 6865-6869	8
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813	Iridium-Catalyzed Electrooxidative C-H Activation by Chemoselective Redox-Catalyst Cooperation. <b>2018</b> , 57, 14179-14183	91
812	Discovery of Plant Growth Stimulants by C-H Arylation of 2-Azaphoxanthine. <b>2018</b> , 20, 5684-5687	9
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791	One-Pot Access to peri-Condensed Heterocycles via Manganese-Catalyzed Cascade C-N and C-C Bond Formation. <b>2018</b> , 20, 4209-4212	15
790	Mechanochemical Rhodium(III)- and Gold(I)-Catalyzed C <sub>≡</sub> H Bond Alkynylations of Indoles under Solventless Conditions in Mixer Mills. <b>2018</b> , 130, 10883-10887	22
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784	Metal-Catalyzed C <sub>≡</sub> H Functionalization Processes with Click-Triazole Assistance. <b>2018</b> , 2018, 6034-6049	16
783	Cu-Catalyzed Cross-Dehydrogenative ortho-Aminomethylation of Phenols. <b>2018</b> , 57, 11807-11811	39

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764	Synthesis of Cinnolines and Cinnolinium Salt Derivatives by Rh(III)-Catalyzed Cascade Oxidative Coupling/Cyclization Reactions. <b>2018</b> , 83, 10845-10854	10
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725	Late-stage peptide C-H alkylation for bioorthogonal C-H activation featuring solid phase peptide synthesis. <b>2019</b> , 10, 3553	28
724	Electrostatic Effects Accelerate Decatungstate-Catalyzed C-H Fluorination Using [18F]- and [19F]NFSI in Small Molecules and Peptide Mimics. <b>2019</b> , 9, 8276-8284	16
723	Selective Conversion of Furoic Acid Derivatives to Multi-Substituted Furanacrylate by a Ruthenium Catalyst. <b>2019</b> , 11, 5124-5130	6
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719	Direct Dimesitylborylation of Benzofuran Derivatives by an Iridium-Catalyzed C-H Activation with Silyldimesitylborane. <b>2019</b> , 25, 12924-12928	7
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715	Ruthenium Catalyzed C-H Selenylations of Aryl Acetic Amides and Esters via Weak Coordination. <b>2019</b> , 21, 6310-6314	12
714	Palladium-catalysed C-H glycosylation for synthesis of C-aryl glycosides. <b>2019</b> , 2, 793-800	44
713	BODIPY-Labeled Cyclobutanes by Secondary C(sp <sup>2</sup> )-H Arylations for Live-Cell Imaging. <b>2019</b> , 25, 12712-12718	9
712	Sulfhydryl-Directed Iridium-Catalyzed C-H/Diazo Coupling and Tandem Annulation of Naphthalene-1-thiols. <b>2019</b> , 21, 7000-7003	23
711	Copper-Catalyzed Group-Transfer Radical Cyclization of $\alpha,\beta$ -Unsaturated Oxime Esters: Synthesis of Ester-Functionalized Pyrrolines. <b>2019</b> , 8, 1317-1320	10

710	Traceless-Activation Strategy for Rh-Catalyzed Csp-H Arylation of Coumarins. <b>2019</b> , 21, 5907-5911	12
709	Cupraelectro-Catalyzed Alkyne Annulation: Evidence for Distinct C $\equiv$ C Alkynylation and Decarboxylative C $\equiv$ C/C $\equiv$ C Manifolds. <b>2019</b> , 9, 7690-7696	53
708	Practical, Large-Scale Preparation of Benzoxepines and Coumarins through Rhodium(III)-Catalyzed C $\equiv$ C Activation/Annulation Reactions. <b>2019</b> , 23, 1669-1673	10
707	Synthesis of Homoallylic Alcohols with Acyclic Quaternary Centers through Co-Catalyzed Three-Component C-H Bond Addition to Internally Substituted Dienes and Carbonyls. <b>2019</b> , 58, 12590-12594	26
706	sp <sup>2</sup> -C $\equiv$ C Acetoxylation of Diversely Substituted (E)-1-(Arylmethylene)-2-phenylhydrazines Using PhI(OAc) <sub>2</sub> as Acetoxy Source at Ambient Conditions. <b>2019</b> , 2019, 5925-5933	3
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704	Coordination Assisted Distal C-H Alkylation of Fused Heterocycles. <b>2019</b> , 58, 13808-13812	30
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702	Late-Stage Diversification of Imidazole-Based Pharmaceuticals through Pd-Catalyzed Regioselective C-H Bond Arylations. <b>2019</b> , 84, 13135-13143	8
701	Coordination Assisted Distal C $\equiv$ C Alkylation of Fused Heterocycles. <b>2019</b> , 131, 13946-13950	10
700	Polymer-Anchored Bifunctional Pincer Catalysts for Chemoselective Transfer Hydrogenation and Related Reactions. <b>2019</b> , 12, 4693-4699	17
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698	Visible Light Induced Rhodium(I)-Catalyzed C-H Borylation. <b>2019</b> , 58, 15244-15248	41
697	Origin of Regiochemical Control in Rh(III)/Rh(V)-Catalyzed Reactions of Unsaturated Oximes and Alkenes to Form Pyridines. <b>2019</b> , 9, 7154-7165	27
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521	C $\beta$ Functionalization of Aromatic Amides. <b>2020</b> , 362, 1406-1446	28
520	Nickel elektro-katalysierte C-H-Alkoxylierung mit sekundären Alkoholen: oxidationsinduzierte reduktive Eliminierung an Nickel(III). <b>2020</b> , 132, 3204-3209	18
519	Late-Stage Diversification by Selectivity Switch in meta-C $\beta$ Activation: Evidence for Singlet Stabilization. <b>2020</b> , 10, 435-440	41
518	Zusammenwirken von Rutheniumkatalysatoren und elektrokatalytisch generierten, hypervalenten Iodreagenzien für die C-H-Oxygenierung. <b>2020</b> , 132, 3210-3215	20
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513	Metal-free benzoylation of imidazoheterocycles by oxidative decarboxylation of arylglyoxylic acids. <b>2020</b> , 18, 9072-9080	4

512	Rh(III)-catalyzed tandem annulative redox-neutral arylation/amidation of aromatic tethered alkenes. <b>2020</b> , 11, 12124-12129	3
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509	Borane-Catalyzed Stereoselective C-H Insertion, Cyclopropanation, and Ring-Opening Reactions. <b>2020</b> , 6, 2364-2381	35
508	Synthesis of tetraruthenium (IV)-substituted tungstogermanate and catalytic oxidation of n-tetradecane under mild solvent-free conditions. <b>2020</b> , 73, 2462-2478	
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506	C-H functionalization reactions enabled by hydrogen atom transfer to carbon-centered radicals. <b>2020</b> , 11, 12974-12993	65
505	Peptide Late-Stage Diversifications by Rhodium-Catalyzed Tryptophan C7 Amidation. <b>2020</b> , 6, 3428-3439	26
504	Iron-Catalyzed Highly para-Selective Difluoromethylation of Arenes. <b>2020</b> , 142, 20524-20530	17
503	Palladium-catalyzed direct Hiyama arylation of quinoxalin-2(1H)-ones with aryl siloxanes in water. <b>2020</b> , 61, 152612	7
502	Syntheses and pH-responsive emissions of pyrid-2-yl-appended para-phenylene oligomers. <b>2020</b> , 76, 131695	3
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500	Synthesis of Chiral-Substituted 2-Aryl-ferrocenes by the Catellani Reaction. <b>2020</b> , 85, 14866-14878	7
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496	When metal-catalyzed C-H functionalization meets visible-light photocatalysis. <b>2020</b> , 16, 1754-1804	28
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483	Ru(II)-Catalyzed C-H addition and oxidative cyclization of 2-aryl quinazolinones with activated aldehydes. <b>2020</b> , 18, 9611-9622	3
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444	Selective Transformation of Strychnine and 1,2-Disubstituted Benzenes by C-H Borylation. <b>2020</b> , 6, 985-993	6
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442	Para-Selective Cyanation of Arenes by H-Bonded Template. <b>2020</b> , 26, 11558-11564	19
441	Iridium-Catalyzed sp C-H Borylation in Hydrocarbon Solvent Enabled by 2,2'-Dipyridylarylmethane Ligands. <b>2020</b> , 142, 6488-6492	23

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438	Catalyst and solvent switched divergent C-H functionalization: oxidative annulation of N-aryl substituted quinazolin-4-amine with alkynes. <b>2020</b> , 18, 3032-3037	4
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432	Late-Stage Diversification of Biarylphosphines through Rhodium(I)-Catalyzed C-H Bond Alkenylation with Internal Alkynes. <b>2020</b> , 22, 5936-5940	10
431	Optimized Immobilization Strategy for Dirhodium(II) Carboxylate Catalysts for C-H Functionalization and Their Implementation in a Packed Bed Flow Reactor. <b>2020</b> , 132, 19693-19699	0
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428	Synthesis of Highly Fused Pyrano[2,3-]pyridines via Rh(III)-Catalyzed C-H Activation and Intramolecular Cascade Annulation under Room Temperature. <b>2020</b> , 85, 6281-6294	13
427	Cobalt-Catalyzed Oxidative C-H Activation: Strategies and Concepts. <b>2020</b> , 13, 3306-3356	38
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425	Cobalt-Catalyzed C-H Acetoxylation of Phenols with Removable Monodentate Directing Groups: Access to Pyrocatechol Derivatives. <b>2020</b> , 22, 1966-1971	15
424	Testing the limits of radical-anionic CH-amination: a 10-million-fold decrease in basicity opens a new path to hydroxyisoindolines a mixed C-N/C-O-forming cascade. <b>2020</b> , 11, 6539-6555	12
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419	Unlocking the potential of late-stage functionalisation: an accurate and fully automated method for the rapid characterisation of multiple regioisomeric products. <b>2020</b> , 5, 779-792	2
418	Cp*Rh -Catalyzed Sterically Controlled C(sp <sup>3</sup> )-H Selective Mono- and Diarylation of 8-Methylquinolines with Organoborons. <b>2020</b> , 26, 4396-4402	10
417	Site-selective 1,3-double functionalization of arenes using para-quinol, CuI, and CuI/CuI three-component coupling. <b>2020</b> , 22, 1119-1124	7
416	Ni-Catalyzed Chelation-Assisted Direct Functionalization of Inert C-H Bonds. <b>2020</b> , 38, 635-662	36
415	Rhodium-Catalyzed ortho-Bromination of O-Phenyl Carbamates Accelerated by a Secondary Amide-Pendant Cyclopentadienyl Ligand. <b>2020</b> , 26, 5774-5779	2
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410	Iridium-Catalyzed Silylation of Five-Membered Heteroarenes: High Sterically Derived Selectivity from a Pyridyl-Imidazoline Ligand. <b>2020</b> , 59, 6074-6081	30
409	N-Heterocyclic Carbene Complexes in C-H Activation Reactions. <b>2020</b> , 120, 1981-2048	211
408	Rhodium(III)-Catalyzed Alkynylation of 4-Arylphthalazin-1(2H)-one Scaffolds via C-H Bond Activation. <b>2020</b> , 2020, 1100-1107	1
407	Selectfluor <sup>®</sup> Radical Dication (TEDA <sup>2+</sup> ) [A Versatile Species in Modern Synthetic Organic Chemistry. <b>2020</b> , 9, 992-1007	14
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405	The first used butylene linked bis(N-heterocyclic carbene)-palladium-PEPPSI complexes in the direct arylation of furan and pyrrole. <b>2020</b> , 915, 121236	11

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401	Ruthenium-catalyzed Suzuki coupling of anilines with alkenyl borates via selective aryl CN bond cleavage. <b>2020</b> , 140, 106009	7
400	Cobalt-Catalyzed Enantioselective Hydroarylation of 1,6-Enynes. <b>2020</b> , 142, 9510-9517	36
399	Mehrfache katalytische C-H-Bindungsfunktionalisierungen in der Naturstoffsynthese. <b>2020</b> , 132, 17950-17961	12
398	Nickel-electrocatalyzed Mild C-H Alkylations at Room Temperature. <b>2020</b> , 59, 14154-14159	28
397	Iridium-Catalyzed Enantioselective Hydroarylation of Alkenes through C-H bond Activation: Experiment and Computation. <b>2020</b> , 26, 8308-8313	17
396	Computational Study on Why and How of Nonconventional meta-C-H Arylation of Electron-Rich Arenes via Pd/Quinoxaline-Based Ligand/Norbornene Cooperative Catalysis. <b>2020</b> , 85, 5995-6007	5
395	Directing-Group-Controlled Ring-Opening Addition and Hydroarylation of Oxa/azabenzonorbornadienes with Arenes via C-H Activation. <b>2020</b> , 22, 3339-3344	9
394	Diverse meta-C <sup>H</sup> Functionalization of Amides. <b>2020</b> , 10, 5347-5352	20
393	Cobalt electro-catalyzed C-H activation for resource-economical molecular syntheses. <b>2020</b> , 15, 1760-1774	12
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391	Multitask prediction of site selectivity in aromatic C <sup>H</sup> functionalization reactions. <b>2020</b> , 5, 896-902	16
390	Sterically Controlled C <sup>H</sup> Olefination of Heteroarenes. <b>2020</b> , 132, 12311-12318	10
389	Late-Stage C(sp <sup>3</sup> )-H Functionalization: A Powerful Toolkit To Arm Natural Products for In Situ Proteome Profiling?. <b>2021</b> , 27, 3575-3580	3
388	Copper-Catalyzed Aerobic Oxidative Ring Expansion of Isatins: A Facile Entry to Isoquinolino-Fused Quinazolinones. <b>2021</b> , 39, 87-92	1
387	Electrochemical Methods for Pd-catalyzed C <sup>H</sup> Functionalization. <b>2021</b> , 10, 50-60	2

386	Mechanochemical Solvent-Free Catalytic C-H Methylation. <b>2021</b> , 60, 6660-6666	31
385	Dearomatizing [4+1] Spiroannulation of Naphthols: Discovery of Thermally Activated Delayed Fluorescent Materials. <b>2021</b> , 60, 3493-3497	9
384	Ruthenium-catalyzed C≡C bond functionalization in cascade and one-pot transformations. <b>2021</b> , 428, 213602	24
383	Ruthenaelectro-Catalyzed Domino Three-Component Alkyne Annulation for Expedient Isoquinoline Assembly. <b>2021</b> , 60, 4619-4624	24
382	Electrochemical Regioselective Phosphorylation of Nitrogen-Containing Heterocycles and Related Derivatives. <b>2021</b> , 363, 464-469	7
381	Enantioselective Pd-Catalyzed C(sp <sup>3</sup> )-H Arylation for the Synthesis of Chiral Warped Molecules. <b>2021</b> , 60, 5136-5140	5
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379	Molecular engineering enabling reversible transformation between helical and planar conformations by cyclization of alkynes. <b>2020</b> , 12, 2419-2426	2
378	Quinoline Ligands Improve the Classic Direct C≡C Functionalisation/Intramolecular Cyclisation of Diaryl Ethers to Dibenzofurans. <b>2021</b> , 2021, 495-498	1
377	Mechanochemical Solvent-Free Catalytic C≡C Methylation. <b>2021</b> , 133, 6734-6740	9
376	Ruthenaelektro-katalysierte Domino-Drei-Komponenten-Alkinanellierung für effiziente Isochinolin-Synthesen. <b>2021</b> , 133, 4669-4674	4
375	Nickel-Catalyzed [4 + 2] Annulation of Nitriles and Benzylamines by C-H/N-H Activation. <b>2021</b> , 86, 279-290	5
374	Regioselective C(sp <sup>3</sup> )-H fluorination of ketones: from methyl to the monofluoromethyl group. <b>2021</b> , 57, 765-768	1
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372	Access to 10-Phenanthrenols via Electrochemical C≡C/C≡C Arylation. <b>2021</b> , 363, 1120-1125	7
371	Mechanistic insight into ligand-promoted C≡C alkenylation of arenes with alkynes: A computational study. <b>2021</b> , 121, e26541	
370	Dearomatizing [4+1] Spiroannulation of Naphthols: Discovery of Thermally Activated Delayed Fluorescent Materials. <b>2021</b> , 133, 3535-3539	1
369	Catalytic C-H to C-M (M = Al, Mg) bond transformations with heterometallic complexes. <b>2020</b> , 12, 1993-2000	10



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367	Directing Group Assisted meta-C-H Functionalization of Arenes Aided by Norbornene as Transient Mediator. <b>2021</b> , 115-136	0
366	Ruthenium-Catalyzed Remote C-H Functionalizations. <b>2021</b> , 137-167	1
365	Co(III)-Catalyzed stereospecific synthesis of (E)-homoallylic alcohols with 4-vinyl-1,3-dioxan-2-ones: late-stage C-H homoallylation of indole derivatives. <b>2021</b> , 8, 4459-4465	0
364	Concerted vs Nonconcerted Metalation-Deprotonation in Orthogonal Direct C-H Arylation of Heterocycles with Halides: A Computational Study. <b>2021</b> , 86, 1769-1778	3
363	Catalyst- and solvent-free C(sp <sup>2</sup> )-H functionalization of 4-hydroxycoumarins via C-3 dehydrogenative aza-coupling under ball-milling. <b>2021</b> , 23, 4762-4770	10
362	Recent developments on the synthesis of functionalized carbohydrate/sugar derivatives involving the transition metal-catalyzed C-H activation/C-H functionalization. <b>2021</b> , 311-399	0
361	A Cascade Rh(III)-catalyzed C-H Activation/Chemodivergent Annulation of N-carbamoylindoles with Sulfoxonium Ylides for the Synthesis of Dihydropyrimidoindolone and Tricyclic [1,3]Oxazino[3,4-a]indol-1-ones Derivatives. <b>2021</b> , 363, 1436-1442	14
360	Recent advances in hydride transfer-involved C(sp <sup>3</sup> )-H activation reactions. <b>2021</b> , 8, 1364-1383	20
359	C(sp <sup>3</sup> )-H Bond Hetero-functionalization of Aliphatic Carboxylic Acid Equivalents Enabled by Transition Metals. <b>2021</b> , 383-427	
358	Recent development in transition metal-catalysed C-H olefination. <b>2021</b> , 12, 2735-2759	58
357	Electron-deficient boron-based catalysts for C-H bond functionalisation. <b>2021</b> , 50, 1945-1967	22
356	Recent advances and perspectives in manganese-catalyzed C-H activation. <b>2021</b> , 11, 444-458	8
355	Organic reactions in aqueous media catalyzed by nickel. <b>2021</b> , 23, 6273-6300	8
354	Precious Metal-Free LaMnO Perovskite Catalyst with an Optimized Nanostructure for Aerobic C-H Bond Activation Reactions: Alkylarene Oxidation and Naphthol Dimerization. <b>2021</b> , 13, 5099-5110	7
353	Sequential C-H activation enabled expedient delivery of polyfunctional arenes. <b>2021</b> , 57, 8075-8078	1
352	Single-atom cobalt-fused biomolecule-derived nitrogen-doped carbon nanosheets for selective oxidation reactions. <b>2021</b> , 23, 14276-14283	1
351	Phosphoric Acid Mediated Light-Induced Minisci C-H Alkylation of N-Heteroarenes. <b>2021</b> , 2021, 969-972	4

350	Additive-Controlled Divergent Synthesis of Tetrasubstituted 1,3-Enynes and Alkynylated 3-Pyrrolo[1,2-]indol-3-ones via Rhodium Catalysis. <b>2021</b> , 23, 727-733	18
349	Transition Metal Catalyzed Distal para-Selective C-H Functionalization. <b>2021</b> , 221-251	1
348	Oxidative annulations via double C-H bond cleavages: Approach to quinoline derivatives. <b>2021</b> , 35, e6156	0
347	Ru(II)-catalyzed allenylation and sequential annulation of -tosylbenzamides with propargyl alcohols. <b>2021</b> , 57, 6280-6283	6
346	Rhodium(III)-catalyzed C-H/C-H activation sequence: expedient and divergent synthesis of 2-benzylated indoles and 2,2'-bis(indolyl)methanes. <b>2021</b> , 8, 4445-4451	3
345	Ag-Cu copromoted direct C2-H bond thiolation of azoles with Bunte salts as sulfur sources. <b>2021</b> , 19, 5899-5904	1
344	A Diverse Library of Chiral Cyclopropane Scaffolds via Chemoenzymatic Assembly and Diversification of Cyclopropyl Ketones. <b>2021</b> , 143, 2221-2231	11
343	Direct Observation of the Microscopic Reverse of the Ubiquitous Concerted Metalation Deprotonation Step in C-H Bond Activation Catalysis. <b>2021</b> , 143, 1356-1364	8
342	The Non-directed Distal C(sp <sup>2</sup> )-H Functionalization of Arenes. <b>2021</b> , 191-219	2
341	Directing Group Assisted Distal C(sp <sup>3</sup> )-H Functionalization of Aliphatic Substrates. <b>2021</b> , 279-314	1
340	Ligand switchable site selectivity in C-H alkenylation of thiophenes by turnover-limiting step control. <b>2021</b> , 57, 9076-9079	1
339	N-Tosylhydrazone as an oxidizing directing group for the redox-neutral access to isoquinolines via Cp*Co(III)-Catalyzed C-H/N-H activation. <b>2021</b> , 98, 100001	0
338	Photochemically Activated Dimagnesium(I) Compounds: Reagents for the Reduction and Selective C-H Bond Activation of Inert Arenes. <b>2021</b> , 133, 7163-7168	3
337	C-H Activation: Toward Sustainability and Applications. <b>2021</b> , 7, 245-261	98
336	Rh(III)-Catalyzed C-H Olefination Cascades to Divergently Construct Diverse Polyheterocycles by Tuning Manipulations of Directing Groups. <b>2021</b> , 23, 1548-1553	2
335	Synthesis of 7-Phenylindole Derivatives through Rhodium-Catalyzed Dehydrogenative Coupling of 2-(Acetylamino)-1,1'-biphenyls with Alkynes. <b>2021</b> , 10, 868-871	0
334	Design of Chiral NHC-Carboxylates as Potential Ligands for Pd-Catalyzed Enantioselective C-H Activation. <b>2021</b> , 104, e2100015	3
333	Copper-Catalyzed Meta-Selective Arylation of Phenol Derivatives: An Easy Access to m-Aryl Phenols. <b>2021</b> , 11, 2302-2309	5

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331	Co(III), Rh(III) & Ir(III)-Catalyzed Direct C-H Alkylation/Alkenylation/Arylation with Carbene Precursors. <b>2021</b> , 16, 443-459	23
330	Rhodium-Catalyzed Twofold Unsymmetrical C-H Alkenylation-Annulation/Thiolation Reaction To Access Thiobenzofurans. <b>2021</b> , 23, 1194-1198	4
329	para-Selective Palladium-Catalyzed C <sub>H</sub> Difluoroalkylation by Weak Oxazolidinone Assistance. <b>2021</b> , 13, 1738-1742	2
328	Metal-Free Directed C <sub>H</sub> Borylation of Pyrroles. <b>2021</b> , 133, 8581-8585	3
327	Late-Stage Alkylation of Heterocycles Using N-(Acyloxy)phthalimides. <b>2021</b> , 16, 879-889	14
326	Microporous cobaltporphyrin covalent polymer mediated Co <sub>3</sub> O <sub>4</sub> @PNC nanocomposites for efficient catalytic C-H bond activation. <b>2021</b> , 614, 118035	7
325	Photochemical and Electrochemical Strategies towards Benzylic C <sub>H</sub> Functionalization: A Recent Update. <b>2021</b> , 363, 1810-1834	14
324	Organic Electrochemistry: Molecular Syntheses with Potential. <b>2021</b> , 7, 415-431	77
323	Synthesis of Substituted Indene Derivatives via Silver-catalyzed Annulative 1:1 Coupling of Secondary Benzyl Alcohols with Alkynes. <b>2021</b> , 50, 456-458	0
322	Consequent Construction of C <sub>C</sub> and C <sub>N</sub> Bonds via Palladium-Catalyzed Dual C <sub>H</sub> Activation: Synthesis of Benzo[c]cinnoline Derivatives. <b>2021</b> , 40, 880-889	4
321	Metal-Free Directed C-H Borylation of Pyrroles. <b>2021</b> , 60, 8500-8504	12
320	Pd-Catalyzed C(sp <sup>3</sup> )-H Alkoxy carbonylation of Phenethyl- and Benzylamines with Chloroformates as CO Surrogates. <b>2021</b> , 27, 5782-5789	5
319	Imine as a linchpin approach for meta-C-H functionalization. <b>2021</b> , 12, 1393	13
318	Remarkably Efficient Iridium Catalysts for Directed C(sp <sup>3</sup> )-H and C(sp <sup>2</sup> )-H Borylation of Diverse Classes of Substrates. <b>2021</b> , 143, 5022-5037	29
317	Synthesis of Indenones through Rhodium(III)-catalyzed [3+2] Annulation Utilizing a Recyclable Carbazolyl Leaving Group. <b>2021</b> , 50, 585-588	4
316	Ruthenium-Catalyzed Cross Dehydrogenative Annulation of -(7-Aza)indole)benzamides with Maleimides: One-Step Access to Highly Functionalized Pyrroloisoquinoline. <b>2021</b> , 86, 6551-6565	6
315	Ligand-Enabled, Iridium-Catalyzed ortho-Borylation of Fluoroarenes. <b>2021</b> , 11, 5968-5973	5

314	Catalytic Intermolecular C(sp)-H Amination: Selective Functionalization of Tertiary C-H Bonds vs Activated Benzylic C-H Bonds. <b>2021</b> , 143, 6407-6412	12
313	Direct Activation of a Remote C(sp)-H Bond Enabled by a Visible-Light Photosensitized Allene Moiety. <b>2021</b> , 60, 12053-12059	2
312	Double Ligands Enabled Ruthenium Catalyzed ortho-C <sub>H</sub> Arylation of Dialkyl Biarylphosphines: Straight and Economic Synthesis of Highly Steric and Electron-Rich Aryl-Substituted Buchwald-Type Phosphines. <b>2021</b> , 363, 2843-2849	3
311	Covalent Organic Frameworks toward Diverse Photocatalytic Aerobic Oxidations. <b>2021</b> , 27, 7738-7744	5
310	Direct Activation of a Remote C(sp <sup>3</sup> ) <sub>H</sub> Bond Enabled by a Visible-Light Photosensitized Allene Moiety. <b>2021</b> , 133, 12160-12166	
309	Selective Functionalization of Hydrocarbons Using a ppm Bioinspired Molecular Tweezer via Proton-Coupled Electron Transfer. <b>2021</b> , 11, 6810-6815	4
308	Investigation of Pd-PEPPSI catalysts and coupling partners towards direct C2-arylation/heteroarylation of benzoxazole. <b>2021</b> , 35, e6296	3
307	Interrelations Between Astrochemistry and Galactic Dynamics. <b>2021</b> , 8,	
306	Rh(III)-catalyzed selective C7-H functionalization of indolines with 1,3-enynes enables access to six-membered 1,7-fused indolines. <b>2021</b> , 72, 153065	0
305	Rhodaelektrokatalysierte bimetallische C-H-Oxygenierung durch schwache O-Koordination. <b>2021</b> , 133, 13373-13379	1
304	An Integrated Approach toward NanoBRET Tracers for Analysis of GPCR Ligand Engagement. <b>2021</b> , 26,	0
303	Photocatalytic C-H Activation with Alcohol as a Hydrogen Atom Transfer Agent in a 9-Fluorenone Based Metal-Organic Framework. <b>2021</b> , 13, 25898-25905	4
302	Metal-, Photocatalyst-, and Light-Free Minisci C-H Acetylation of N-Heteroarenes with Vinyl Ethers. <b>2021</b> , 23, 4374-4378	5
301	Selective $\alpha$ -Methylation of Ketones. <b>2021</b> , 86, 7333-7346	2
300	Asymmetric Total Synthesis of Sarpagine and Koumine Alkaloids. <b>2021</b> , 60, 13105-13111	8
299	Rhoda-Electrocatalyzed Bimetallic C-H Oxygenation by Weak O-Coordination. <b>2021</b> , 60, 13264-13270	10
298	Electrocatalytic C <sub>H</sub> phosphorylation through nickel(III/IV/II) catalysis. <b>2021</b> , 7, 1379-1392	4
297	Porous Organic Phenanthroline-Based Polymer as an Efficient Transition-Metal-Free Heterogeneous Catalyst for Direct Aromatic C-H Activation. <b>2021</b> , 27, 8684-8688	1

296	Asymmetric Total Synthesis of Sarpagine and Koumine Alkaloids. <b>2021</b> , 133, 13215-13221	1
295	Aryne Multicomponent Reactions by Directed C-H Activation. <b>2021</b> , 27, 8846-8850	0
294	Donor-Acceptor-Donor Thienopyrazine-Based Dyes as NIR-Emitting AIEgens. <b>2021</b> , 2021, 2655-2664	5
293	Rhenium-Catalyzed Arylation-Acyl Cyclization between Enol Lactones and Organomagnesium Halides: Facile Synthesis of Indenones. <b>2021</b> , 60, 15497-15502	7
292	Mechanism of the Arene-Limited Nondirected C-H Activation of Arenes with Palladium*. <b>2021</b> , 60, 15641-15649	6
291	Nickel-Catalyzed C-H Bond Functionalization of Azoles and Indoles. <b>2021</b> ,	3
290	Intermolecular Dehydrogenative C <sub>H</sub> /Si <sub>H</sub> Cross-Coupling for the Synthesis of Arylbenzyl Bis(silanes). <b>2021</b> , 2021, 3079-3082	2
289	Palladium-Catalyzed Dehydrogenative C-2 Alkenylation of 5-Arylimidazoles and Related Azoles with Styrenes. <b>2021</b> , 11, 762	0
288	Ruthenium-Catalyzed Regioselective C(sp)-H Activation/Annulation of -(7-Azaindole)amides with 1,3-Diynes Using -Amino-7-azaindole as the ,-Bidentate Directing Group. <b>2021</b> , 86, 9428-9443	2
287	Direct C4-Acetoxylation of Tryptophan and Tryptophan-Containing Peptides Palladium(II)-Catalyzed C-H Activation. <b>2021</b> , 23, 4699-4704	4
286	C <sub>H</sub> activation. <b>2021</b> , 1,	52
285	Primary amides: Sustainable weakly coordinating groups in transition metal-catalyzed C <sub>H</sub> bond functionalization reactions. <b>2021</b> , 132313	5
284	Rhenium-Catalyzed Arylation-Acyl Cyclization between Enol Lactones and Organomagnesium Halides: Facile Synthesis of Indenones. <b>2021</b> , 133, 15625-15630	0
283	Mechanismus der Aren-limitierten, nicht-dirigierten C-H-Aktivierung von Arenen mit Palladium**. <b>2021</b> , 133, 15770-15779	0
282	Recent Advances in Transition Metal-Free Halogenation of C(sp <sup>2</sup> )-H Bonds. <b>2021</b> , 25, 1180-1193	5
281	Metal Nanoparticles as Sustainable Tools for C-N Bond Formation via C-H Activation. <b>2021</b> , 26,	1
280	Palladium-catalyzed oxidative annulation of N-(8-quinoliny) aryl carboxamides with 1-aryl-2-tosyloxy ethanones. <b>2021</b> , 51, 2796-2807	2
279	Redox-Neutral Rhodium(III)-Catalyzed Chemospecific and Regiospecific [4+1] Annulation between Indoles and Alkenes for the Synthesis of Functionalized Imidazo[1,5-]indoles. <b>2021</b> , 86, 10591-10607	6

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- 277 Recent Advances in Transition-Metal-Free Late-Stage C-H and N-H Arylation of Heteroarenes Using Diaryliodonium Salts. **2021**, 14, 3
- 276 Copper-mediated oxidative C-H/N-H activations with alkynes by removable hydrazides. **2021**, 17, 1591-1599 0
- 275 Copper(I)-catalysed site-selective C(sp)-H bond chlorination of ketones, (E)-enones and alkylbenzenes by dichloramine-T. **2021**, 12, 4065 2
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- 271 Deciphering the Role of Silver in Palladium-Catalyzed C-H Functionalizations. **2021**, 11, 9702-9714 12
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- 266 Direct Photocatalyzed Hydrogen Atom Transfer (HAT) for Aliphatic C-H Bonds Elaboration. **2021**, 70
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- 255 Temperature-Controlled Divergent Synthesis of Tetrasubstituted Alkenes and Pyrrolo[1,2-a]indole Derivatives via Iridium Catalysis. 1
- 254 Functionalization of C(sp<sup>3</sup>)-H bonds adjacent to heterocycles catalyzed by earth abundant transition metals. **2021**, 98, 132415 1
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241	Recent advances in Rh(III)/Ir(III)-catalyzed C-H functionalization/annulation carbene migratory insertion. <b>2021</b> , 19, 1438-1458	30
240	Hydrogenation of Cinnamaldehyde by Water-Soluble Ruthenium(II) Phosphine Complexes: A DFT Study on the Selectivity and Viability of trans-Dihydride Pathways. <b>2021</b> , 2021, 236-242	1
239	Iron-Catalyzed C-H Bond Formation via Chelation-Assisted C-H Activation. <b>2017</b> , 57, 1117-1130	19
238	Rh(III)-Catalyzed Reaction of $\beta$ -Carbonyl Sulfoxonium Ylides and Alkenes: Synthesis of Indanones via [4 + 1] Cycloaddition. <b>2020</b> , 22, 1375-1379	28
237	Enantioselective Hydroxylation of Benzylic C(sp)-H Bonds by an Artificial Iron Hydroxylase Based on the Biotin-Streptavidin Technology. <b>2020</b> , 142, 10617-10623	16
236	Chelation-assisted transition metal-catalysed C-H chalcogenylations. <b>2020</b> , 7, 1022-1060	33
235	Visible-light-mediated photoredox minisci C-H alkylation with alkyl boronic acids using molecular oxygen as an oxidant. <b>2020</b> , 56, 12652-12655	21
234	Visible-light-mediated minisci C-H alkylation of heteroarenes with 4-alkyl-1,4-dihydropyridines using O <sub>2</sub> as an oxidant. <b>2020</b> , 22, 5599-5604	22
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231	Iron-Catalyzed C-H Bond Activation. <b>2017</b> , 75, 802-809	5
230	Flexible and Densely Packed $\pi$ - $\pi$ Stacking System: Creating Elastic Organic Crystals of $\pi$ -Conjugated Molecules. <b>2020</b> , 78, 962-970	3
229	Recent advance in direct sp <sup>3</sup> carbon-hydrogen bond functionalizations. <b>2016</b> , 7, 248-270	5
228	Predictable site-selective functionalization: Promoter group assisted -halogenation of -substituted heteroarenes under metal-free condition. <b>2021</b> , 19, 9675-9687	0
227	Room-temperature C-H bond alkylation by merging cobalt and photocatalysts. <b>2021</b> , 57, 12167-12170	2
226	Rh(III)-Catalyzed tandem C(sp <sup>2</sup> )-H allylation/N-alkylation annulation of arene amides with 2-alkylidenetrimethylene carbonates.	2
225	Rh(III)-Catalyzed C-H allylation/annulative Markovnikov addition with 5-methylene-1,3-dioxan-2-one: formation of isoquinolinones containing a C <sub>3</sub> quaternary centre.	1

224	Electrochemically enabled rhodium-catalyzed [4 + 2] annulations of arenes with alkynes. <b>2021</b> , 23, 9515-9522	3
223	Pyrazole-Mediated C-H Functionalization of Arene and Heteroarenes for Aryl-(Hetero)aryl Cross-Coupling Reactions. <b>2021</b> , 86, 15665-15673	4
222	Visible-light-promoted late-stage direct fluoroalkylation of nitroimidazoles. <b>2021</b> , 153484	2
221	Sequential Selective C <sub>H</sub> and C(sp <sup>3</sup> ) <sub>H</sub> -P Bond Functionalizations: An Entry to Bioactive Arylated Scaffolds.	
220	Furoxan Incorporation into C-H Bonds Enabling Nitrogen-Containing Functional Group Installation into the Same. <b>2021</b> , 86, 15807-15817	1
219	Sequential Selective C-H and C(sp <sup>3</sup> )-P Bond Functionalizations: An Entry to Bioactive Arylated Scaffolds. <b>2021</b> , 60, 26199-26209	1
218	Direct (Hetero)arylation Polymerization. 131-158	1
217	Decarbonylative Coupling Reaction of Aromatic Esters. <b>2018</b> , 76, 300-314	1
216	Transition-Metal-Catalyzed, Coordination-Assisted Functionalization of Nonactivated C(sp <sup>3</sup> )-H Bonds. <b>2021</b> ,	38
215	N-Heterocyclic carbene-palladium-PEPPSI complexes and their catalytic activity in the direct C <sub>H</sub> bond activation of heteroarene derivatives with aryl bromides: synthesis, and antimicrobial and antioxidant activities.	2
214	Chemo-, Regio-, and Stereoselective Assembly of Polysubstituted Furan-2(5H)-ones Enabled by Rh(III)-Catalyzed Domino C <sub>H</sub> Alkenylation/Directing Group Migration/Lactonization: A Combined Experimental and Computational Study. 13921-13934	7
213	Mini-review on the functionalization of C <sub>H</sub> bond to C-X linkage via metalla-electrocatalyzed tool. <b>2021</b> , 98, 100247	0
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211	Insight into the mechanism of the arylation of arenes via norbornene relay palladation through meta- to para-selectivity.	0
210	Late-Stage Functionalization and Characterization of Drugs by High-Throughput Desorption Electrospray Ionization Mass Spectrometry.. <b>2022</b> , 87, e202100449	1
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208	Effect of Pincer Methylation on the Selectivity and Activity in (PNP)Cobalt-Catalyzed C(sp <sup>3</sup> )-H Borylation.. <b>2021</b> , 40, 3766-3774	0
207	Late-Stage Functionalisation of Polycyclic (-Hetero-) Aromatic Hydrocarbons by Detoxifying CYP5035S7 Monooxygenase of the White-Rot Fungus. <b>2021</b> , 11,	2

206	Preparation of Polyfunctionalized Aromatic Nitriles from Aryl Oxazolines. <b>2021,</b>	0
205	Insight into Regioselective Control in Aerobic Oxidative C-H/C-H Coupling for C3-Arylation of Benzothiophenes: Toward Structurally Nontraditional OLED Materials. <b>2021,</b>	5
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203	Incorporation of norbornene or dicyclopentadiene moiety onto naphthoquinone-containing pyrroles through transition metal catalyzed CH or NH bond activation. <b>2022, 961, 122253</b>	
202	Pd-Catalyzed direct C-H arylation of pyrrolo[1,2]-quinoxalines.. <b>2022,</b>	1
201	Recent advances in $\text{C}(\text{sp}^3)\text{H}$ bond activation of amides, aliphatic amines, sulfanilamides and amino acids. <b>2022, 455, 214255</b>	0
200	Remote -C-H functionalization medium-sized cyclopalladation.. <b>2022,</b>	1
199	Synthesis of Natural Products by C-H Functionalization of Heterocycles.. <b>2022,</b>	1
198	Diastereoselective Bidirectional $\text{C}(\text{sp}^3)\text{H}$ Bond Functionalization of Piperazine Compounds.	
197	A Perspective on Late-Stage Aromatic C-H Bond Functionalization.. <b>2022,</b>	16
196	Synthesis of Benzylidenesuccinates through Rhodium(III)-Catalyzed C-H Alkenylation with Itaconate.	0
195	Synthetic Applications of Carbene and Nitrene CH Insertion. <b>2022,</b>	
194	Catalytic $\text{C}\text{H}$ Activation via Four-Membered Metallacycle Intermediate.	
193	Selective benzylic C-H bond activations mediated by a phosphorus-nitrogen PNP-nickel complex.. <b>2022,</b>	1
192	Emergence of Pyrimidine-Based -Directing Group: Journey from Weak to Strong Coordination in Diversifying -C-H Functionalization.. <b>2022,</b>	2
191	One-step synthesis of indolizino[3,4,5]-isoindoles by manganese(I)-catalyzed C-H activation: structural studies and photophysical properties.. <b>2022,</b>	1
190	Electrochemical Cobalt-Catalyzed $\text{C}\text{H}$ Activations with Potential. 1-31	
189	Aromatization as the driving force for single electron transfer towards $\text{C}\text{H}$ cross-coupling reactions.	1

188	Synthesis of $\alpha$ -Heteroarenemethyl Esters via C-C Bond Cleavage of Acyl Cyanides Under Transition Metal-Free Conditions.. <b>2021</b> , 9, 822625	0
187	Remote C(sp <sup>3</sup> )-H Acylation of Amides and Cascade Cyclization via N-Heterocyclic Carbene Organocatalysis.	
186	Structurally Nontraditional Bipolar Hosts for RGB Phosphorescent OLEDs: Boosted by a "Butterfly-Shaped" Medium-Ring Acceptor.. <b>2022</b> , e202116681	5
185	Remote C(sp <sup>3</sup> )-H Acylation of Amides and Cascade Cyclization via N-Heterocyclic Carbene Organocatalysis.. <b>2022</b> ,	3
184	DDQ-mediated oxidative coupling reaction of N,N-dimethyl enaminones with cycloheptatriene. <b>2022</b> , 90, 153609	0
183	Structurally Nontraditional Bipolar Hosts for RGB Phosphorescent OLEDs: Boosted by a Butterfly-Shaped Medium-Ring Acceptor.	0
182	Palladium-catalyzed selective C-C bond cleavage and stereoselective alkenylation between cyclopropanol and 1,3-diyne: one-step synthesis of diverse conjugated enynes.. <b>2022</b> , 13, 2692-2700	3
181	Copper-catalyzed radical relay in C(sp)-H functionalization.. <b>2022</b> ,	13
180	Oxidant-Switched Palladium-Catalyzed Regioselective Mono- versus Bis-Aroylation of 1-Aryl-1-indazoles with Aldehydes via C-H Bond Activation.. <b>2022</b> ,	1
179	Transition-Metal-Catalyzed Dearomative Spiroannulation Reactions. <b>2022</b> , 313-355	
178	Remote steric control for undirected $\alpha$ -selective C-H activation of arenes.. <b>2022</b> , 375, 658-663	5
177	Forging C-heteroatom bonds by transition-metal-catalyzed enantioselective C-H functionalization. <b>2022</b> , 8, 384-413	16
176	Ruthenaelectro-catalyzed C-H acyloxylation for late-stage tyrosine and oligopeptide diversification.. <b>2022</b> , 13, 3461-3467	3
175	Metal-free oxoammonium salt-mediated C(sp)-H oxidative Ugi-azide multicomponent reaction.. <b>2022</b> ,	0
174	Electronic control over site-selectivity in hydrogen atom transfer (HAT) based C(sp)-H functionalization promoted by electrophilic reagents.. <b>2022</b> ,	9
173	Organometallic 3d transition metal NHC complexes in oxidation catalysis.	2
172	Synthesis of 5-Alkynyl and 2,5-Dialkynyl-L-histidines. <b>2022</b> , 7,	0
171	Transition-Metal-Catalyzed C-C Bond-Forming Reactions via C-H Activation for the Development of Fluorescent Materials with Practical Value. <b>2022</b> , 12, 2796-2820	5

170	Visible-Light-Induced, Sole-Metal-Catalyzed, Directed C <sub>H</sub> Functionalization: Metal-Substrate Bound Complexes as Light-Harvesting Agents.	0
169	Rhodaelektro-katalysierte peri -selektive direkte Alkenylierungen mit schwacher O -Koordination ermöglicht durch die Wasserstoffbildungsreaktion (HER).	
168	Structurally Nontraditional Benzo[ c ]cinnoline-Based Electron-Transporting Materials with 3D Molecular Interaction Architecture.. <b>2022,</b>	1
167	Structurally Nontraditional Benzo[ c ]cinnoline-Based Electron-Transporting Materials with 3D Molecular Interaction Architecture.	
166	Visible-Light-Induced, Sole-Metal-Catalyzed, Directed C-H Functionalization: Metal-Substrate Bound Complexes as Light-Harvesting Agents.. <b>2022,</b>	0
165	Late-Stage Chemoenzymatic Installation of Hydroxy-Bearing Allyl Moiety on the Indole Ring of Tryptophan-Containing Peptides.. <b>2022,</b>	2
164	Rhodaelectro-catalyzed peri-selective direct alkenylations with weak O-coordination enabled by hydrogen evolution reaction (HER).. <b>2022,</b>	5
163	Weak-Coordination in C <sub>H</sub> Bond Functionalizations Catalyzed by 3d Metals. <b>2022, 12, 3452-3506</b>	11
162	Stereoselective Palladium-Catalyzed C( sp <sup>3</sup> ) <sub>H</sub> Mono-Arylation of Piperidines and Tetrahydropyrans with a C(4) Directing Group.	2
161	Identification of a Self-Photosensitizing Hydrogen Atom Transfer Organocatalyst System.. <b>2022,</b>	3
160	Palladium-Catalyzed Regiodivergent Synthesis of 1,3-Dienyl and Allyl Esters from Propargyl Esters.. <b>2022,</b>	1
159	Ligand-Promoted Rh(I)-Catalyzed C <sub>2</sub> -Selective C-H Alkenylation and Polyenylation of Imidazoles with Alkenyl Carboxylic Acids.. <b>2022,</b>	
158	Synthesis of $\beta$ -tertiary amines by polysulfide anions photocatalysis via single-electron transfer and hydrogen atom transfer in relays. <b>2022,</b>	
157	Manganese-Catalyzed C(sp <sup>2</sup> )-H Alkylation of Indolines and Arenes with Unactivated Alkyl Bromides.. <b>2022,</b>	1
156	Development of Cobalt Catalysts for the $\beta$ -Selective C(sp)-H Borylation of Fluorinated Arenes.. <b>2022,</b>	0
155	Palladium-Catalyzed Regiodivergent Synthesis of 1,3-Dienyl and Allyl Esters from Propargyl Esters.	
154	A Mixed-Ligand Strategy to Modulate P3HT Regioregularity for High-Efficiency Solar Cells.	4
153	Simple Polythiophene Solar Cells Approaching 10% Efficiency via Carbon Chain Length Modulation of Poly(3-alkylthiophene). <b>2022, 55, 133-145</b>	11

- 152 Double 1,2-Migration of Bromine and Silicon in Directed C-H Alkynylation Reactions with Silyl-Substituted Alkynyl Bromides through an Iridium Vinylidene Intermediate. **2022**, 41, 20-28 1
- 151 Electrochemical Desaturative  $\beta$ -Acylation of Cyclic N-Aryl Amines. **2021**, 134, 102-106 7
- 150 Electrochemical Desaturative  $\beta$ -Acylation of Cyclic N -Aryl Amines. **2022**, 134, 102-106 7
- 149 Directing group switch in copper-catalyzed electrophilic C-H amination/migratory annulation cascade: divergent access to benzimidazolone/benzimidazole. **2022**, 41, 20-28 1
- 148 Catalytic redox-neutral C-H functionalisation with TEMPO in water to access aminomethyl-substituted pyrroles.. **2022**, 41, 20-28 1
- 147 Stereoselective Synthesis of Allenyl Alcohols by Cobalt(III)-Catalyzed Sequential C-H Bond Addition to 1,3-Enynes and Aldehydes. **2022**, 41, 20-28 1
- 146 Stereoselective Synthesis of Allenyl Alcohols by Cobalt(III)-Catalyzed Sequential C-H Bond Addition to 1,3-Enynes and Aldehydes.. **2022**, 41, 20-28 1
- 145 Directing group assisted rhodium catalyzed meta-C-H alkynylation of arenes. **2022**, 41, 20-28 5
- 144 Rapid access to 9-arylfluorene and spirobifluorene through Pd-catalysed C-H arylation/deaminative annulation.. **2022**, 41, 20-28 1
- 143 C(sp<sup>3</sup>)-directed 1,3-diamination of cumene derivatives catalyzed by a dirhodium(ii) catalyst. **2022**, 41, 20-28 2
- 142 Remote carbamate-directed site-selective benzylic C-H oxygenation via synergistic copper/TEMPO catalysis at room temperature. **2022**, 41, 20-28 0
- 141 The solvent-controlled Rh(III)-catalyzed switchable [4+2] annulation of 2-arylindoles with iodonium ylides.. **2022**, 58, 6140-6143 3
- 140 Visible light-induced deoxygenation/cyclization of salicylic acid derivatives and aryl acetylene for the synthesis of flavonoids.. **2022**, 41, 20-28 1
- 139 A practical and sustainable two-component Minisci alkylation via photo-induced EDA-complex activation. **2022**, 41, 20-28 4
- 138 Dual Photoredox and Cobalt Catalysis Enabled Transformations. **2022**, 41, 20-28 3
- 137 Engineering the Oxygen Vacancies Enables Ni single-atom Catalyst For Stable and Efficient C-H Activation. **2022**, 121516 4
- 136 Directed Ni-Catalyzed Reductive Arylation of Aliphatic C-H Bonds.. **2022**, 41, 20-28 1
- 135 Thermodynamic and Kinetic Studies on Copper-Catalyzed Cross-Dehydrogenative Couplings of N-aryl Glycine Esters with Phenols. **2022**, 41, 20-28 2

134	Visible light-activated ruthenium-catalysed direct arylation at ambient temperature. <b>2022</b> , 153831	1
133	Construction of Pyrrolocoumarin Cores through Double C-H Annulation Cascade.	0
132	Transition Metal Catalysis Controlled by Hydrogen Bonding in the Second Coordination Sphere.. <b>2022</b> ,	4
131	A Jackpot C-H Activation Protocol Using Simple Ruthenium Catalyst in Deep Eutectic Solvents.	3
130	Co(II) Catalysed C-H/N-H Annulation of Cyclic Alkenes with Benzamides at Room Temperature; An Easy Access to the Core Skeleton of Hexahydrobenzo[c]phenanthridine type-Alkaloids..	
129	Intramolecular C-H Activation as an Easy Toolbox to Synthesize Pyridine-Fused Bipolar Hosts for Blue Organic Light-Emitting Diodes.	0
128	Intramolecular C-H Activation as an Easy Toolbox to Synthesize Pyridine-Fused Bipolar Hosts for Blue Organic Light-Emitting Diodes.	
127	Tandem Reactions involving 1,4-Palladium Migrations.	4
126	ASYMMETRIC C-H FUNCTIONALIZATION OF C(sp <sup>2</sup> )-H BOND. <b>2022</b> , 385-427	
125	The recent advances in cobalt-catalyzed functionalization of unactivated olefins.	1
124	Electrochemical polymerization of nonflammable electrolyte enabling fast-charging lithium-sulfur battery. <b>2022</b> , 50, 387-394	4
123	Recent Advances in the Synthesis of 5-Membered N-Heterocycles via Rhodium Catalysed Cascade Reactions. <b>2022</b> , 7,	3
122	C-H bond activation and sequential addition to two different coupling partners: a versatile approach to molecular complexity.	6
121	Pd(II)-catalyzed meta-C-H bromination and chlorination of aniline and benzoic acid derivatives.	0
120	Branching out: redox strategies towards the synthesis of acyclic $\beta$ -tertiary ethers. <b>2022</b> , 51, 5878-5929	1
119	I <sub>2</sub> /TBHP Reagent System: A Modern Paradigm for Organic Transformations.	1
118	Why Does an Inert C <sup>4</sup> -H Bond in Indolyl Aldehyde Get Activated Unexpectedly by a Rh(III) Catalyst over a More Reactive C <sup>2</sup> -H Bond while the Opposite Is True for Acetophenone? Guidelines for Inverting Regioselectivity. <b>2022</b> , 41, 1659-1674	
117	Cp*Co(III)-Catalyzed Selective C <sup>8</sup> -Olefination and Oxyarylation of Quinoline N-Oxides with Terminal Alkynes. <b>2022</b> , 87, 9069-9087	1



116	Expanding chemical space by para-C <sub>H</sub> arylation of arenes. <b>2022</b> , 13,	2
115	HFIP in Organic Synthesis.	15
114	Photocatalytic C <sub>H</sub> Bond Activation of Toluene on Rutile TiO <sub>2</sub> (110).	1
113	Copper-promoted C <sub>H</sub> amination of pyrrolo[1,2-a]quinoxaline with N-fluorobenzenesulfonimide. <b>2022</b> , 1267, 133636	0
112	C <sub>H</sub> Activation of Inert Arenes using a Photochemically Activated Guanidinato-Magnesium(I) Compound.	1
111	Design, Synthesis, and Evaluation of Extended C <sub>4</sub> Symmetric Dirhodium Tetracarboxylate Catalysts. 10841-10848	1
110	Direct Benzylic C(sp <sup>3</sup> )C Coupling with Alcohol via Site-Selective C(sp <sup>3</sup> )C Cleavage at Room Temperature through a Remote Directing Group-Enabled Radical Relay Strategy. <b>2022</b> , 87, 10698-10709	1
109	Cp*Rh(III)-Catalyzed Cascade Annulation of Arylimidates with Pyridotriazoles toward Isoquinolin-3-ol Derivatives. <b>2022</b> , 87, 10858-10868	2
108	Efficient Synthesis of Multiply Seven-Membered-Ring Fused Porphyrins by Rhodium-Catalyzed [5+2] Annulation.	3
107	Substrate-Rhodium Cooperativity in Photoinduced ortho-Alkynylation of Arenes.	0
106	Enantioselective para -C(sp <sup>2</sup> )C Functionalization of Alkyl Benzene Derivatives via Cooperative Catalysis of Gold/Chiral Brønsted Acid**.	
105	Brønsted acid-enhanced direct hydrogen atom transfer photocatalysis for selective functionalization of unactivated C(sp <sup>3</sup> )C bonds.	4
104	Efficient Synthesis of Multiply Seven-Membered-Ring Fused Porphyrins by Rhodium-Catalyzed [5+2] Annulation.	
103	Molecular Editing of Aza-arene C <sub>H</sub> Bonds by Distance, Geometry and Chirality.	4
102	Enantioselective para -C(sp <sup>2</sup> )C Functionalization of Alkyl Benzene Derivatives via Cooperative Catalysis of Gold/Chiral Brønsted Acid**.	0
101	Substrate-Rhodium Cooperativity in Photoinduced ortho-Alkynylation of Arenes.	
100	Rhodium(III)-Catalyzed Redox-Neutral [4 + 1]-Annulation of Unactivated Alkenes with Sulfoxonium Ylides. <b>2022</b> , 87, 11073-11089	
99	Site-Selective C-Alkylation of 1,3-Butanediol Using a Thiophosphoric Acid Hydrogen Atom Transfer Catalyst. <b>2022</b> , 70, 540-543	

- 98 Ruthenium (II) catalysed regioselective C-2'-alkenylation of 2-phenylimidazo[1,2-a]pyridine-3-carbaldehydes. **2022**, 122, 132956
- 97 Silver-Free C<sub>H</sub> Activation: Strategic Approaches towards Realizing the Full Potential of C<sub>H</sub> Activation in Sustainable Organic Synthesis. 0
- 96 Ligand-Determined Single, Double, and Triple C<sub>H</sub> Arylation of Aryl Phosphines at Will. 11743-11748 0
- 95 Recyclable rhodium-catalyzed C<sub>H</sub> activation/[4 + 2] annulation with unconventional regioselectivity at ambient temperature: experimental development and mechanistic insight. **2022**, 24, 7012-7021 0
- 94 A cascade indazolone-directed Ir(iii)- and Rh(iii)-catalyzed C(sp<sup>2</sup>)<sub>H</sub> functionalization/[4 + 2] annulation of 1-arylidazolones with sulfoxonium ylides to access chemically divergent 8H-indazolo [1,2-a]cinnolines. **2022**, 9, 5185-5190 1
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- 92 Ligand-enabled C<sub>H</sub> borylation of diverse classes of arenes. **2022**, 3, 100028 0
- 91 Palladium-Catalyzed C<sub>H</sub> Functionalization of Aryl Acetamides and Benzoquinones: Synthesis of Substituted Aryl Quinones. **2022**, 87, 13154-13167 0
- 90 Rhodium-Catalyzed C<sub>H</sub> Halogenation. 1-25 0
- 89 Visible-Light Mediated C<sub>H</sub> Functionalization of Heteroarenes. 1-26 0
- 88 Development of N-Hydroxy Catalysts for C<sub>H</sub> Functionalization via Hydrogen Atom Transfer: Challenges and Opportunities. **2022**, 12, 11716-11733 2
- 87 Design, synthesis and molecular docking study of thiophenyl hydrazone derivatives as tubulin polymerization inhibitors. 1-19 0
- 86 Ruthenium-Catalyzed C<sub>H</sub> Activation in Target Oriented Synthesis of Natural Products and Active Pharmaceutical Intermediates. 1-27 0
- 85 Heteroatom-Assisted Regio- and Stereoselective Palladium-Catalyzed Carboxylation of 9-Allyl Adenine. **2022**, 87, 12574-12585 0
- 84 Silver-Free C<sub>H</sub> Activation: Strategic Approaches towards Realizing the Full Potential of C<sub>H</sub> Activation in Sustainable Organic Synthesis. 0
- 83 Rh(III)-catalyzed twofold unsymmetrical C<sub>H</sub> alkenylation-annulation/amidation reaction enabled delivery of diverse furoquinazolinones. **2022**, 108, 154141 0
- 82 C<sub>H</sub> Functionalization Reactions Following a Single-Electron Transfer and Radical Pathway. 1-29 0
- 81 Role of Common Functional Motifs in Site-Selective C<sub>H</sub> Bond Functionalization. 1-40 0

- 80 Natural Product Synthesis by Rhodium and Ruthenium-Catalyzed C-H Activation. 1-29 0
- 79 C-H Activation for the Synthesis of Organic Redox-Active Compounds. 1-27 0
- 78 Mechanistic Insights on Palladium-Catalyzed C(sp<sup>2</sup>)-H Functionalization from Theoretical Perspective. 1-28 0
- 77 Electrochemical Palladium-Catalyzed C-H Functionalization. 1-32 0
- 76 Transition Metal-Catalyzed C(sp<sup>3</sup>)-H Bond Functionalization Adjacent to Heterocycles. 1-53 0
- 75 Recent Advances of Unactivated C(sp<sup>3</sup>)-H Functionalization via Radical Pathway. 1-43 0
- 74 Rh-Catalyzed C-H Functionalization with Allenes. 1-29 0
- 73 Synthesis and Late-Stage Diversification of BN-Embedded Dibenzocorannulenes as Efficient Fluorescence Organic Light-Emitting Diode Emitters.. 0
- 72 Phosphine oxide directing-group-enabled atroposelective C-H bond acyloxylation via an eight-membered palladacycle intermediate. **2022**, 107894 0
- 71 Ru(II)/Chiral Carboxylic Acid-Catalyzed Asymmetric [4 + 3] Annulation of Sulfoximines with  $\beta,\beta$ -Unsaturated Ketones. 13876-13883 3
- 70 Optimal balance in the catalyst dynamics enables C(2)-H arylation of (benz)imidazoles and (benz)oxazoles by an in situ generated Ni/NHC system. 0
- 69 Recent Advances in Rare-Earth Metal-Catalyzed C-H Functionalization Reactions. 1
- 68 Postmodification of voxelotor (GBT 440) via [Rh]-catalyzed cross dehydrogenative coupling with olefins. **2022**, 77, 129022 0
- 67 Visible light metallaphotoredox catalysis in the late-stage functionalization of pharmaceutically potent compounds. 2
- 66 Insights into Mechanism and Selectivity in Rh(I)-catalyzed Cycloisomerization Reaction of Benzylallene-Alkynes involving C-H Bond Activation. 0
- 65 Rhodium-Catalyzed Vinyl Sulfonylation of 3-Carbonyl-Substituted Indoles with Ethenesulfonyl Fluoride by Cross-Dehydrogenative Coupling: An Application in (3+2) Cycloaddition. **2022**, 2022, 0
- 64 Selective Activation of Aromatic C-H Bonds Catalyzed by Single Gold Atoms at Room Temperature. 0
- 63 C-H Borylation of Arenes: Steric-controlled <i>i>-selectivity and Application to Molecular Nanocarbons. **2022**, 80, 994-999 0

- 62 Photochemical Cross-coupling enabled Csp<sup>3</sup>-C bonds formation by C-H homolytic cleavage: New developments and perspectives. ○
- 61 Intermolecular Redox-Neutral Carboamination of C≡C Multiple Bonds Initiated by Transition-Metal-Catalyzed C-H Activation. 14754-14772 3
- 60 Iodonium ylides: an emerging and alternative carbene precursor for C-H functionalizations. **2022**, 21, 24-38 ○
- 59 Radical addition-triggered remote functionalization of C-H bond via 1, n-hydrogen atom transfer process. **2023**, 130, 133172 ○
- 58 Visible-Light-Mediated C(sp<sup>3</sup>)-H Functionalization of Alkyl Arylacetates: An Easy Approach to S-Benzyl Dithiocarbamate Acetates. ○
- 57 Redox-neutral rhodium(iii)-catalyzed divergent synthesis of tetrasubstituted 1,3-enynes and alkynylated benzofurans. **2022**, 21, 147-152 ○
- 56 Cobalt(iii)-catalyzed weakly coordinating arylurea-directed regioselective mono-olefination. ○
- 55 The recent advances in cobalt-catalyzed C(sp<sup>3</sup>)-H functionalization reactions. ○
- 54 Rhodium(III)-catalyzed oxidative cross-coupling of benzoxazinones with styrenes via C-H activation. ○
- 53 Ru-Catalyzed C-C Bond Formation via C-H Bond Cleavage. 1-66 ○
- 52 Merging Metal-Catalyzed C-H Activation Strategies and Renewable Energy Sources. 1-32 ○
- 51 Rh-Catalyzed Arene Distal meta - and para -C-H Functionalization. 1-27 ○
- 50 Activation of C-H Bonds Through 1, n-HAT ( n = 4,8) Pathway. 1-28 ○
- 49 Organocatalytic Allylic and Benzylic C-H Bond Functionalization. 1-31 ○
- 48 Ligandless Palladium-Catalyzed Direct C-5 Arylation of Azoles Promoted by Benzoic Acid in Anisole. **2022**, 27, 8454 ○
- 47 Merging N-Heterocyclic Carbene Organocatalysis with Hydrogen Atom Transfer Strategy. ○
- 46 Cobalt(II)-Catalyzed C-H Alkylation of N-Heterocycles with 1,4-Dihydropyridines. **2022**, 12, 15707-15714 ○
- 45 Radical arenes. ○

44	Direct Hydroxylarylation of Benzylic Carbons (sp <sup>3</sup> /sp <sup>2</sup> /sp) via Radical-Radical Cross-Coupling Powered by Paired Electrolysis.	2
43	1,3-Diynes: A Versatile Precursor in Transition-Metal Catalyzed (Mediated) C-H Functionalizations.	0
42	Two-Dimensional Bimetallic Hydroxide Nanostructures for Catalyzing Low-Temperature Aerobic C-H Bond Activation in Alkylarene and Alcohol Partial Oxidation. <b>2022</b> , 5, 18855-18870	0
41	Synthesis of Complex Dihydroisoquinolin Derivatives via Cobalt-Electrocatalyzed C-H Activation.	0
40	Late-Stage Formal Double C-H Oxidation of Prenylated Molecules to Alkylidene Oxetanes and Azetidines by Strain-Enabled Cross-Metathesis.	0
39	Diversification of pharmaceutical molecules via late-stage C(sp <sup>2</sup> )-H functionalization. <b>2023</b> ,	0
38	Microwave assisted regioselective halogenation of benzo[b][1,4]oxazin-2-ones via sp <sup>2</sup> C-H functionalization. <b>2023</b> , 13, 2365-2371	1
37	Energy Harvesting: Synthetic Use of Recovered Energy in Electrochemical Late-Stage Functionalization.	0
36	Synthesis of Functionalized Proline-Derived Azabicycloalkane Amino Acids and Their Applications in Drug Discovery: Recent Advances.	0
35	Cobalt catalyzed alkenylation/annulation reactions of alkynes via C-H activation: A review. <b>2023</b> , 133248	0
34	Non-directed C-H Arylation of Electron Deficient Arenes by Synergistic Silver and Pd <sub>3</sub> Cluster Catalysis.	0
33	Annulation of Indole-2-Carboxamides with Bicycloalkenes Catalyzed by Ru(II) at Room Temperature: An Easy Access to $\beta$ -Carboline-1-one Derivatives under Mild Conditions.	0
32	Ligand-Dependant Selective Synthesis of Mono- and Dialkenylcarbazoles through Rhodium(III)-Catalyzed C-H Alkenylation.	0
31	The preparation of 2,2'-bithiophene-based conjugated microporous polymers by direct arylation polymerization and their application in fluorescence sensing 2,4-dinitrophenol. <b>2023</b> , 1240, 340779	1
30	Propargyl Alcohols as Bifunctional Reagents for Divergent Annulations of Biphenylamines via Dual C-H Functionalization/Dual Oxidative Cyclization.	0
29	Late-stage C-H Functionalization of Tryptophan-Containing Peptides with Thianthrenium Salts: Conjugation and Ligation.	0
28	Propargyl Alcohols as Bifunctional Reagents for Divergent Annulations of Biphenylamines via Dual C-H Functionalization/Dual Oxidative Cyclization.	0
27	Late-stage C-H Functionalization of Tryptophan-Containing Peptides with Thianthrenium Salts: Conjugation and Ligation.	0

- 26 Recent advances in n-type and ambipolar organic semiconductors and their multi-functional applications. 1
- 25 Improving the sustainability of the ruthenium-catalysed N-directed C<sub>H</sub> arylation of arenes with aryl halides. **2023**, 25, 2394-2400 0
- 24 Review of electrochemical transition-metal-catalyzed C<sub>H</sub> functionalization reactions. **2023**, 8, 0
- 23 Copper-Catalyzed Intermolecular Cross-dehydrogenative C<sub>N</sub> Coupling at Room Temperature via Remote Activating Group Enabled Radical Relay Strategy. **2023**, 25, 2012-2017 0
- 22 Recent Advances in Rhodium-Catalyzed Electrochemical C<sub>H</sub> Activation. 0
- 21 A Cheap and Efficient Oxidant (n-Bu)<sub>4</sub>NNO<sub>3</sub>-Enabled C(sp<sup>2</sup>)<sub>H</sub> and C(sp<sup>3</sup>)<sub>H</sub> Olefination at Room Temperature. 0
- 20 Accelerating innovations in C-H activation/functionalization through intricately designed magnetic nanomaterials: From genesis to applicability in liquid/regio/photo catalysis. **2023**, 175, 106615 0
- 19 Direct Heteroarylation Guidelines for Well-Defined Thiophene-Based Conjugated Molecules. **2023**, 88, 3303-3307 1
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- 17 Late-Stage Functionalisation of Pyridine-Containing Bioactive Molecules: Recent Strategies and Perspectives. **2023**, 26, 0
- 16 Waste-minimized C(sp<sup>3</sup>)-H activation for the preparation of fused N-heterocycles. **2023**, 0
- 15 Rh(III)-Catalyzed [4 + 1] Annulation of Sulfoximines with Maleimides: Access to Benzoisothiazole Spiropyrrolidinediones. **2023**, 88, 3626-3635 0
- 14 Transition metal-catalyzed C<sub>H</sub>/C<sub>N</sub> activation and coupling with 1,3-diyne. **2023**, 21, 2842-2869 0
- 13 Divided or undivided? Electrolytic cells regulate site selectivity in C-H carboxylation of N-heteroarenes. **2023**, 108302 0
- 12 Cobalt-Catalyzed Enantioselective C<sub>H</sub> Annulation with Alkenes. **2023**, 13, 4250-4260 0
- 11 High-Throughput Diversification of Complex Bioactive Molecules by Accelerated Synthesis in Microdroplets. 0
- 10 High-Throughput Diversification of Complex Bioactive Molecules by Accelerated Synthesis in Microdroplets. 0
- 9 Fluoroalkyl Sulfoximines for Versatile Photocatalytic Radical Fluoroalkylations. 0

- 8 Regioselective Hydroxylation of Flavonoids by Transition-Metal-Catalyzed C-H Bond Oxidation. **2023**, 25, 2264-2269 ○
- 7 Rapid C-H Transformation: Addition of Diarylmethanes to Imines in Seconds by Catalytic Use of Base. **2023**, 88, 4155-4161 ○
- 6 Enantioselective annulation reactions through C(sp<sup>2</sup>)-H activation with chiral Cp\*Ir(III) catalysts. **2023**, 3, 100575 ○
- 5 Synthesis of Polysubstituted Furan Frameworks via [3 + 2] Annulation of N-Enoxyimides with Chelated Alkynes Initiated by Rh(III)-Catalyzed C-H Activation. **2023**, 25, 2394-2399 ○
- 4 Transannular Functionalization of Multiple C(sp<sup>3</sup>)-H Bonds of Tropane via an Alkene-Bridged Palladium(I) Dimer. ○
- 3 Hydrazone-oxime Selectively Directed Redox-Neutral [4 + 2] Annulations Cascade with Alkynes and Iodonium Ylides to Build 1,1'-Biisoquinoline Mono-N-oxides. **2023**, 25, 2616-2621 ○
- 2 meta-Selective O-Arylation of Cyclic Diaryliodonium Salts with Phenols via Aryne Intermediates. ○
- 1 Direct C2-H alkylation of indoles driven by the photochemical activity of halogen-bonded complexes. 19, 575-581 ○