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## Catalytic C-h/olefin coupling

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#	Paper	IF	Citations
995	Room Temperature Activation of Aromatic C-H Bonds by Non-Classical Ruthenium Hydride Complexes Containing Carbene Ligands. <i>Advanced Synthesis and Catalysis</i> , <b>2003</b> , 345, 1139-1145	5.6	88
994	Thermolysis of [( $\eta$ -C <sub>5</sub> H <sub>5</sub> )Co(PPh <sub>3</sub> )( $\eta$ -DMAD)], revisited: a solid state analysis reveals the true structure of the triphenylphosphine-alkyne coupling product. <i>Journal of Organometallic Chemistry</i> , <b>2003</b> , 671, 1-7	2.3	17
993	The ruthenium-catalyzed silylation of aromatic C-H bonds with triethylsilane. <i>Journal of Organometallic Chemistry</i> , <b>2003</b> , 686, 134-144	2.3	116
992	Cyclometalated phosphine-based pincer complexes: mechanistic insight in catalysis, coordination, and bond activation. <i>Chemical Reviews</i> , <b>2003</b> , 103, 1759-92	68.1	1472
991	Mechanisms of C-C and C-H alkane reductive eliminations from octahedral Pt(IV): reaction via five-coordinate intermediates or direct elimination?. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 9442-56	16.4	157
990	Selective ortho C-h activation of haloarenes by an Ir(I) system. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 4714-5	16.4	105
989	A ruthenium-catalyzed reaction of aromatic ketones with arylboronates: a new method for the arylation of aromatic compounds via C-H bond cleavage. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 1698-9	16.4	313
988	Ruthenium-catalyzed C-H/CO/Olefin coupling reaction of N-arylpyrazoles. Extraordinary reactivity of N-arylpyrazoles toward carbonylation at C-H bonds. <i>Journal of Organic Chemistry</i> , <b>2003</b> , 68, 7538-40	4.2	54
987	19 Catalysis and organometallic chemistry of monometallic species. <b>2003</b> , 99, 349-369		3
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985	A highly selective catalytic method for the oxidative functionalization of C-H bonds. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 2300-1	16.4	910
984	Towards a facile synthesis of triarylethanones: palladium-catalyzed arylation of ketone enolates under homogeneous and heterogeneous conditions. <b>2004</b> , 60, 2393-2408		46
983	Controlled microwave heating in modern organic synthesis. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 6250-84	16.4	2856
982	Kontrolliertes Erhitzen mit Mikrowellen in der modernen organischen Synthese. <i>Angewandte Chemie</i> , <b>2004</b> , 116, 6408-6443	3.6	239
981	RuH <sub>2</sub> (H <sub>2</sub> ) <sub>2</sub> (PCy <sub>3</sub> ) <sub>2</sub> : a room temperature catalyst for the Murai reaction. <b>2004</b> , 212, 77-82		54
980	Activation and deactivation of a carbene containing non-classical ruthenium hydride complex in catalytic processes involving C-H bond cleavage. <b>2004</b> , 357, 1969-1974		28
979	The versatility of molecular ruthenium catalyst RuCl(COD)(C <sub>5</sub> Me <sub>5</sub> ). <i>Journal of Organometallic Chemistry</i> , <b>2004</b> , 689, 1382-1392	2.3	53

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977	Carbon-Hydrogen bond activation of chloroalkanes by a rhodium trispyrazolylborate complex. <b>2004</b> , 23, 413-417		20
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974	Theoretical Investigation of C-H/Olefin Coupling Catalyzed by Zirconium(IV) Complexes. <b>2004</b> , 23, 4882-4890		43
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961	Palladium(II)-catalyzed sequential hydroxylation-carboxylation of biphenyl using formic acid as a carbonyl source. <i>Organic Letters</i> , <b>2004</b> , 6, 2437-9	6.2	43

960	Arylation of heterocycles via rhodium-catalyzed C-H bond functionalization. <i>Organic Letters</i> , <b>2004</b> , 6, 35-8	6.2	201
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865	Selective sp <sup>3</sup> C-H activation of ketones at the beta position by Ir(I). Origin of regioselectivity and water effect. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 12400-1	16.4	63
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863	Catalytic Addition of C-H Bonds to C-C Multiple Bonds. <b>2007</b> , 1-33		58
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861	Catalytic Arylation and Vinylation Reactions Directed by Anionic Oxygen Functions via Cleavage of C-H and C-C Bonds. <b>2007</b> , 61-84		65
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854	Green Organometallic Chemistry. <b>2007</b> , 837-864		1
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850	Agostic Si-H bond coordination assists C-H bond activation at ruthenium in bis(phosphinobenzylsilane) complexes. <i>Chemical Communications</i> , <b>2007</b> , 3963-5	5.8	33
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847	Reactions of SiH-Functionalized Cyclopentadienes with Metal Carbonyls. <b>2007</b> , 26, 4212-4219		11
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739	Platinum(II)-catalyzed intramolecular cyclization of o-substituted aryl alkynes through sp <sup>3</sup> C-H activation. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 3999-4001	16.4	121
738	Catalytic functionalization of indoles in a new dimension. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 9608-44	16.4	1104
737	Ruthenium-catalyzed regioselective direct alkylation of arenes with unactivated alkyl halides through C-H bond cleavage. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 6045-8	16.4	275
736	Transition-metal-catalyzed direct arylation of (hetero)arenes by C-H bond cleavage. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 9792-826	16.4	2470
735	Palladium-catalyzed amidation of unactivated C(sp <sup>3</sup> )-H bonds: from anilines to indolines. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 6892-5	16.4	242
734	Enantioselective synthesis of indanols from tert-cyclobutanols using a rhodium-catalyzed C-C/C-H activation sequence. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 6320-3	16.4	218
733	Iron-catalyzed C(sp <sup>3</sup> )-C(sp <sup>3</sup> ) bond formation through C(sp <sup>3</sup> )-H functionalization: a cross-coupling reaction of alcohols with alkenes. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 8761-5	16.4	116
732	Enantioselective palladium-catalyzed direct arylation at ambient temperature: access to indanes with quaternary stereocenters. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 9139-42	16.4	180
731	Synthesis of 1,1-diaryl ethylenes by Cu-catalyzed arene C-H addition to aryl acetylenes. <b>2009</b> , 50, 893-896		22
730	Mechanism of rhodium-catalyzed hydroacylation of propylene using formaldehyde: A computational study. <b>2009</b> , 110, NA-NA		
729	Stabilization of dimethyliron(II) and methylcobalt(I) complexes bearing a hemilabile 2-benzoylpyridine ligand in octahedral and square-pyramidal coordination. <b>2009</b> , 362, 1984-1990		9
728	Pt(II)-catalyzed hydroarylation reaction of alkynes with pyrroles and furans. <b>2009</b> , 65, 3842-3847		31
727	Recent advances in the synthesis of (hetero)aryl-substituted heteroarenes via transition metal-catalysed direct (hetero)arylation of heteroarene C-H bonds with aryl halides or pseudohalides, diaryliodonium salts, and potassium aryltrifluoroborates. <b>2009</b> , 65, 10269-10310		517

726	Regio- and stereoselective iodoarylation of arylacetylenes using molecular iodine promoted by hypervalent iodine. <b>2009</b> , 50, 4759-4761		8
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724	Benzylation of arenes and heteroarenes catalyzed by HfCl <sub>4</sub> /HfO <sub>2</sub> . <b>2009</b> , 20, 913-916		5
723	Gold(I)-Catalyzed Hydroarylation of Allenes with Indoles. <i>Journal of Organometallic Chemistry</i> , <b>2009</b> , 694, 571-575	2.3	61
722	N-heterocyclic carbenes in late transition metal catalysis. <i>Chemical Reviews</i> , <b>2009</b> , 109, 3612-76	68.1	2551
721	Rhodium-catalyzed C-H bond arylation of arenes. <b>2010</b> , 292, 231-80		115
720	Alkenylation of aromatic compounds. <b>2009</b> , 45, 1-17		46
719	Activation of sp <sup>3</sup> Carbon-Hydrogen Bonds by Cobalt and Iron Complexes and Subsequent C-C Bond Formation. <b>2009</b> , 28, 6090-6095		56
718	Rhodium-catalyzed mono- and divinylolation of 1-phenylpyrazoles and related compounds via regioselective C-H bond cleavage. <i>Journal of Organic Chemistry</i> , <b>2009</b> , 74, 7094-9	4.2	206
717	C-H Activation of Imines by Trimethylphosphine-Supported Iron Complexes and Their Reactivities. <b>2009</b> , 28, 2300-2310		50
716	Rhodium-catalyzed ortho-benzoylation of sp <sup>2</sup> C-H bond. <i>Organic Letters</i> , <b>2009</b> , 11, 3974-7	6.2	100
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714	Computational and synthetic studies on the cyclometallation reaction of dimethylbenzylamine with [IrCl <sub>2</sub> Cp*] <sub>2</sub> : role of the chelating base. <b>2009</b> , 5887-93		86
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705	Cleavage of C-N bonds in aniline derivatives on a ruthenium center and its relevance to catalytic C-C bond formation. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 7238-9	16.4	106
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700	Synthesis of condensed heteroaromatic compounds by palladium-catalyzed oxidative coupling of heteroarene carboxylic acids with alkynes. <i>Organic Letters</i> , <b>2009</b> , 11, 2337-40	6.2	158
699	Ruthenium-catalyzed direct arylations through C-H bond cleavages. <b>2010</b> , 292, 211-29		208
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608	Metal-catalyzed direct alkylations of (hetero)arenes via C-H bond cleavages with unactivated alkyl halides. <i>Chemical Communications</i> , <b>2010</b> , 46, 4866-77	5.8	452
607	Palladium-catalyzed regioselective oxidative coupling of indoles and one-pot synthesis of acetoxyated biindolyls. <i>Journal of Organic Chemistry</i> , <b>2010</b> , 75, 170-7	4.2	143
606	Rhodium-catalyzed oxidative coupling/cyclization of 2-phenylindoles with alkynes via C-H and N-H bond cleavages with air as the oxidant. <i>Organic Letters</i> , <b>2010</b> , 12, 2068-71	6.2	244
605	Alkyne insertion into cyclometallated pyrazole and imine complexes of iridium, rhodium and ruthenium; relevance to catalytic formation of carbo- and heterocycles. <b>2010</b> , 39, 10447-57		50
604	Synthesis of 2-pyridones and iminoesters via Rh(III)-catalyzed oxidative coupling between acrylamides and alkynes. <i>Organic Letters</i> , <b>2010</b> , 12, 5462-5	6.2	157
603	Pyridyl-Substituted Indenyl Ruthenium Complexes: Synthesis, Structures, and Reactivities. <b>2010</b> , 29, 3418-3430 <sup>21</sup>		
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601	Metal-rich organometallics. <b>2010</b> , 39, 5759-67		7

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599	Computational study of ethene hydroarylation at [Ir(II)-OAc)(PMe <sub>3</sub> )Cp] <sup>+</sup> . <b>2010</b> , 39, 10520-7		18
598	A Convenient Synthesis of 3,3-Bis(thienyl)propionic Acids by Platinum (II)-Catalyzed Reaction of Thiophenes with Propiolic Acids. <b>2010</b> , 185, 1154-1161		2
597	d <sup>0</sup> f <sup>n</sup> -METAL COMPLEXES SUPPORTED BY FERROCENE-BASED CHELATING LIGANDS. <b>2010</b> , 31, 196-241		38
596	N-Heterocyclic Carbene Palladium Catalyzed Regioselective Oxidative Trifluoroacetoxylation of Unactivated Methylene sp <sup>3</sup> C-H Bonds in Linear Alkyl Esters. <b>2011</b> , 30, 6053-6056		37
595	Synthesis of H-pyrazolo[5,1-a]isoquinolines via copper(II)-catalyzed oxidation of an aliphatic C-H bond of tertiary amine in air. <i>Organic Letters</i> , <b>2011</b> , 13, 712-5	6.2	101
594	Reactions of a Trinuclear Ruthenium Complex Derived from 3-(2-Pyridyl)indene with Diphenylacetylene and Phenylacetylene: Insertion of Alkynes into the Ru-C bond. <b>2011</b> , 30, 676-683		19
593	Cobalt-catalyzed chemoselective insertion of alkene into the ortho C-H bond of benzamide. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 5221-3	16.4	167
592	Modulating the Steric, Electronic, and Catalytic Properties of Cp* Ruthenium Half-Sandwich Complexes with $\beta$ -Diketiminato Ligands. <b>2011</b> , 30, 6119-6132		25
591	Rhodium-catalyzed regioselective olefination directed by a carboxylic group. <i>Journal of Organic Chemistry</i> , <b>2011</b> , 76, 3024-33	4.2	206
590	Discrete Iridamacrocyclic Formation via C-H Activation of an N-Heterocycle. <b>2011</b> , 30, 3905-3907		10
589	Allylic C-H bond activation and functionalization mediated by tris(oxazolonyl)borato rhodium(I) and iridium(I) compounds. <b>2011</b> , 40, 6500-14		8
588	Ir-catalyzed highly selective addition of pyridyl C-H bonds to aldehydes promoted by triethylsilane. <i>Chemical Science</i> , <b>2011</b> , 2, 488-493	9.4	121
587	Copper-catalyzed $\alpha$ -amination of aliphatic aldehydes. <i>Chemical Communications</i> , <b>2011</b> , 47, 5458-60	5.8	42
586	Synthesis of azaheterocycles from aryl ketone O-acetyl oximes and internal alkynes by Cu-Rh bimetallic relay catalysts. <i>Journal of Organic Chemistry</i> , <b>2011</b> , 76, 6159-68	4.2	211
585	Ruthenium-catalyzed oxidative vinylation of heteroarene carboxylic acids with alkenes via regioselective C-H bond cleavage. <i>Organic Letters</i> , <b>2011</b> , 13, 706-8	6.2	259
584	Directed aromatic functionalization. <i>Beilstein Journal of Organic Chemistry</i> , <b>2011</b> , 7, 1215-8	2.5	21
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581	Ruthenium-catalyzed meta sulfonation of 2-phenylpyridines. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 19298-301	16.4	391
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579	Pd(0)-catalyzed diarylation of sp <sup>3</sup> C-H bond in (2-azaaryl)methanes. <i>Organic Letters</i> , <b>2011</b> , 13, 1968-71	6.2	92
578	Palladium-catalyzed oxidative cross-coupling between pyridine N-oxides and indoles. <i>Organic Letters</i> , <b>2011</b> , 13, 1766-9	6.2	180
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479	A versatile rhodium(I) catalyst system for the addition of heteroarenes to both alkenes and alkynes by a C-H bond activation. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 3677-81	16.4	139
478	Semiconducting polymers prepared by direct arylation polycondensation. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 3520-3	16.4	186
477	Hydride ligands make the difference: density functional study of the mechanism of the Murai reaction catalyzed by [Ru(H) <sub>2</sub> (H <sub>2</sub> ) <sub>2</sub> (PR <sub>3</sub> ) <sub>2</sub> ] (R=cyclohexyl). <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 11449-58	4.8	16
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475	Synthesis of 5-alkyl[3,4-c]thienopyrrole-4,6-dione-based polymers by direct heteroarylation. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 2068-71	16.4	220

474	Synthesis of pyrrolo[1,2-f]phenanthridine-annulated polycyclic heterocycles from palladium-catalyzed intramolecular direct arylation reaction. <b>2012</b> , 143, 119-125		5
473	Mechanism of intermolecular hydroacylation of vinylsilanes catalyzed by a rhodium(I) olefin complex: a DFT study. <b>2012</b> , 18, 1229-39		9
472	Determination of thermodynamic affinities of various polar olefins as hydride, hydrogen atom, and electron acceptors in acetonitrile. <i>Journal of Organic Chemistry</i> , <b>2013</b> , 78, 7154-68	4.2	11
471	Substituent Effects on Stoichiometric and Catalytic Cleavage of Carbon-Nitrogen Bonds in Aniline Derivatives by Ruthenium-Phosphine Complexes. <b>2013</b> , 32, 682-690		37
470	New, Highly Efficient, Simple, Safe, and Scalable Synthesis of [(Ph <sub>3</sub> P) <sub>3</sub> Ru(CO)(H) <sub>2</sub> ]. <b>2013</b> , 32, 4440-4443		22
469	Ruthenium-catalyzed ortho-alkenylation of phenylphosphine oxides through regio- and stereoselective alkyne insertion into C-H bonds. <i>Journal of Organic Chemistry</i> , <b>2013</b> , 78, 8098-104	4.2	71
468	Mechanistic study on ligand-controlled cobalt-catalyzed regioselectivity-switchable hydroarylation of styrenes. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 12093-103	4.8	45
467	Carboxylate-Assisted Ruthenium(II)-Catalyzed Hydroarylations of Unactivated Alkenes through C-H Cleavage. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 4069-4072	3.6	42
466	Aerobic Ru-catalyzed direct C <sub>2</sub> -olefination of N-heteroarenes with alkenes directed by a removable N-dimethylcarbamoyl group. <i>Chemical Communications</i> , <b>2013</b> , 49, 8830-2	5.8	69
465	Theoretical investigation of Co(0)-catalyzed intramolecular hydroacylation of 4-pentenal. <b>2013</b> , 19, 2225-34		4
464	Theoretical Studies on the Reaction Mechanism of Metal-Assisted CH Activation. <b>2013</b> , 695-726		6
463	Bond Activation and Catalysis. <b>2013</b> , 399-432		4
462	The Directed Ortho Metallation (DoM)-Cross-Coupling Nexus. Synthetic Methodology for the Formation of Aryl-Aryl and Aryl-Heteroatom-Aryl Bonds. <b>2013</b> , 1067-1133		2
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460	Investigation on the mechanism of water-assisted palladium-catalyzed benzylic C-H amination by N-fluorobenzenesulfonimide. <i>Organic and Biomolecular Chemistry</i> , <b>2013</b> , 11, 7923-30	3.9	14
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458	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. <i>Journal of Organic Chemistry</i> , <b>2013</b> , 78, 11911-34	4.2	53
457	Copper(I)-Catalyzed Intramolecular Direct C-Arylation of Azoles with Aryl Bromides. <i>Chinese Journal of Chemistry</i> , <b>2013</b> , 31, 1007-1010	4.9	10

456	Catalytic functionalization of C(sp <sup>2</sup> )-H and C(sp <sup>3</sup> )-H bonds by using bidentate directing groups. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 11726-43	16.4	1710
455	Polymers for electronics and spintronics. <i>Chemical Society Reviews</i> , <b>2013</b> , 42, 8895-999	58.5	315
454	Synthesis of Isoquinoline Derivatives through Rhodium(III)-Catalyzed Reactions of Benzylamines with Non-Terminal Alkynes. <i>Advanced Synthesis and Catalysis</i> , <b>2013</b> , 355, 2667-2679	5.6	49
453	Enantioselective [3 + 2] annulation via C-H activation between cyclic N-acyl ketimines and 1,3-dienes catalyzed by iridium/chiral diene complexes. <i>Chemical Science</i> , <b>2013</b> , 4, 4499	9.4	88
452	Ruthenium-mediated C-H functionalization of pyridine: the role of vinylidene and pyridylidene ligands. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 2222-34	16.4	71
451	Understanding C-H Bond Activation on a Diruthenium(I) Platform. <b>2013</b> , 32, 340-349		19
450	Rhodium(I)-catalyzed redox-economic cross-coupling of carboxylic acids with arenes directed by N-containing groups. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 2063-7	16.4	128
449	A Noninnocent Cyclooctadiene (COD) in the Reaction of an Ir(COD)(OAc) Precursor with Imidazolium Salts. <b>2013</b> , 32, 192-201		22
448	Aldehyde-assisted hydrogen transfer during the formation of hydride-iridafurans from alkynes and aldehydes. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 1796-809	4.8	5
447	Ruthenium-catalyzed reductive deamination and tandem alkylation of aniline derivatives. <i>Journal of Organometallic Chemistry</i> , <b>2013</b> , 741-742, 148-152	2.3	23
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445	Carboxylate-assisted ruthenium(II)-catalyzed hydroarylations of unactivated alkenes through C-H cleavage. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 3977-80	16.4	139
444	Rhodium-catalyzed intermolecular oxidative cross-coupling of (hetero)arenes with chalcogenophenes. <i>Organic Letters</i> , <b>2013</b> , 15, 1290-3	6.2	81
443	Metal-Catalyzed C-H Bond Activation and C-C Bond Formation in Water. <b>2013</b> , 47-86		6
442	Iron-catalyzed direct alkenylation of sp <sup>3</sup> (C-H) bonds via decarboxylation of cinnamic acids under ligand-free conditions. <b>2013</b> , 15, 976		82
441	sp <sup>2</sup> C-H bond activation in water and catalytic cross-coupling reactions. <i>Chemical Society Reviews</i> , <b>2013</b> , 42, 5744-67	58.5	467
440	Direct Arylation of Porphyrins with Extended Aryl Bromides under Ligand-free Fagnou-Hartwig Conditions. <i>Asian Journal of Organic Chemistry</i> , <b>2013</b> , 2, 320-324	3	9
439	Rhodium(III)-catalyzed synthesis of cinnolinium salts from azobenzenes and alkynes: application to the synthesis of indoles and cinnolines. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 6198-202	4.8	113

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436	Organometallic Approaches for Direct Modification of Peripheral C-H Bonds in Porphyrin Cores. <i>Asian Journal of Organic Chemistry</i> , <b>2013</b> , 2, 356-373	3	68
435	Highly regioselective C2-alkenylation of indoles using the N-benzoyl directing group: an efficient Ru-catalyzed coupling reaction. <i>Organic Letters</i> , <b>2013</b> , 15, 2818-21	6.2	114
434	Versatile Reactivity of Phosphagermaallene Tip(t-Bu)Ge=C?PMe <sub>3</sub> * with $\alpha$ -Ethylene Esters. <b>2013</b> , 32, 1085-1093	4	
433	Regioselective ortho-hydroxylation of 2-arylbenzothiazole via $\beta$ -substrate-directed C-H activation. <b>2013</b> , 69, 2175-2183		51
432	Preparation of fluorinated biaryls through direct palladium-catalyzed coupling of polyfluoroarenes with aryltrifluoroborates. <b>2013</b> , 151, 50-57		18
431	Pt(II)-Catalyzed Ethylene Hydrophenylation: Influence of Dipyridyl Chelate Ring Size on Catalyst Activity and Longevity. <i>ACS Catalysis</i> , <b>2013</b> , 3, 1165-1171	13.1	41
430	Ruthenium-Catalyzed Selective Aerobic Oxidative ortho-Alkenylation of Substituted Phenols with Alkenes through C-H Bond Activation. <i>European Journal of Organic Chemistry</i> , <b>2013</b> , 2013, 1150-1157	3.2	38
429	Palladium(II)-catalyzed ortho-arylation via phosphate-group-directed C-H activation. <b>2013</b> , 69, 5152-5159		45
428	Ruthenium-catalyzed direct C-H amidation of arenes including weakly coordinating aromatic ketones. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 7328-33	4.8	156
427	Autocatalytic intermolecular versus intramolecular deprotonation in C-H bond activation of functionalized arenes by ruthenium(II) or palladium(II) complexes. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 7595-604	4.8	83
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418	Effect of the ortho alkylation of perylene bisimides on the alignment and self-assembly properties. <i>ChemistryOpen</i> , <b>2014</b> , 3, 138-41	2.3	11
417	Applications of Cyclometalation Reactions and Five-Membered Ring Products for Synthetic Purposes. <b>2014</b> , 87-137		
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414	Palladium-Catalyzed Suzuki Cross-Coupling of Phenylhydrazine or (Phenylsulfonyl)hydrazine. <i>European Journal of Organic Chemistry</i> , <b>2014</b> , 2014, 3307-3312	3.2	14
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412	Palladium-Catalyzed C-F Bond Formation via Directed C-H Activation. <i>Advanced Synthesis and Catalysis</i> , <b>2014</b> , 356, 1412-1418	5.6	69
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408	Organometallic aspects of transition-metal catalysed regioselective C-H bond functionalisation of arenes and heteroarenes. <b>2014</b> , 43, 3021-34		33
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401	Ruthenium(II)-Catalysed sp <sup>2</sup> C <sub>H</sub> Bond Functionalization by C <sub>H</sub> Bond Formation. <b>2014</b> , 119-193		23
400	Disilaferracycle Dicarboxyl Complex Containing Weakly Coordinated $\sigma$ -(H-Si) Ligands: Application to C <sub>H</sub> Functionalization of Indoles and Arenes. <b>2014</b> , 33, 5936-5939		44
399	Palladium-catalyzed direct C <sub>H</sub> allylation of arenes without directing groups. <i>Organic Chemistry Frontiers</i> , <b>2014</b> , 1, 546	5.2	17
398	Versatile ruthenium(II)-catalyzed C-H cyanations of benzamides. <i>Chemical Communications</i> , <b>2014</b> , 50, 1878-81	5.8	98
397	Rh(III)-catalyzed regioselective hydroarylation of alkynes via directed C-H functionalization of pyridines. <i>Organic and Biomolecular Chemistry</i> , <b>2014</b> , 12, 3594-7	3.9	28
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394	Organometallic Approaches to Conjugated Polymers for Plastic Solar Cells: From Laboratory Synthesis to Industrial Production. <i>European Journal of Organic Chemistry</i> , <b>2014</b> , 2014, 6583-6614	3.2	58
393	Ruthenium-catalyzed highly regio- and stereoselective hydroarylation of aromatic sulfoxides with alkynes via C-H bond activation. <i>Chemical Communications</i> , <b>2014</b> , 50, 14573-6	5.8	52
392	Beyond directed ortho metalation: Ru-catalyzed C <sub>Ar</sub> -O activation/cross-coupling reaction by amide chelation. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 11224-7	16.4	70
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386	5.33 Hydroarylation Reactions. <b>2014</b> , 1621-1659		5
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384	Cobalt mediated C-H bond functionalization: emerging tools for organic synthesis. <b>2014</b> , 4, 2756-2777		49
383	Rh(III)-catalyzed cascade oxidative olefination/cyclization of picolinamides and alkenes via C-H activation. <i>Organic Letters</i> , <b>2014</b> , 16, 3142-5	6.2	43
382	Rh-catalyzed sequential oxidative C-H and N-N bond activation: conversion of azines into isoquinolines with air at room temperature. <i>Organic Letters</i> , <b>2014</b> , 16, 3532-5	6.2	112
381	Branch-selective, iridium-catalyzed hydroarylation of monosubstituted alkenes via a cooperative destabilization strategy. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 10258-61	16.4	123
380	Sequential Ruthenium(II)-Acetate Catalyzed C-H Bond Diarylation in NMP or Water and Hydrosilylation of Imines. <b>2014</b> , 57, 833-842		18
379	A theoretical study on the mechanisms of intermolecular hydroacylation of aldehyde catalyzed by neutral and cationic rhodium complexes. <i>Science China Chemistry</i> , <b>2014</b> , 57, 1264-1275	7.9	11
378	Catalytic intermolecular C-H alkenylation of $\beta$ -enamino-ketones with simple alkynes. <i>Chemical Communications</i> , <b>2014</b> , 50, 5230-2	5.8	25
377	Computational rationalization of the selective C-H and C-F activations of fluoroaromatic imines and ketones by cobalt complexes. <i>Organic and Biomolecular Chemistry</i> , <b>2014</b> , 12, 1897-907	3.9	8
376	Rhodium-Catalyzed Oxidative Perfluoroalkenylation by Carbonyl Group Directed C-H Bond Activation. <i>European Journal of Organic Chemistry</i> , <b>2014</b> , 2014, 7211-7219	3.2	8
375	Removable bidentate directing group assisted-recyclable metal-organic frameworks-catalyzed direct oxidative amination of Sp <sup>2</sup> C-H bonds. <b>2014</b> , 320, 9-15		22
374	Ru-catalyzed rearrangement of N-methyl isoxazolidines to N-H 1,3-oxazinanes: a strategy of self-hydride transferring cleavage of N-O bonds. <i>Organic Letters</i> , <b>2014</b> , 16, 2498-501	6.2	22
373	Progress in the synthesis and transformations of alkylidenecyclopropanes and alkylidenecyclobutanes. <i>Chemical Reviews</i> , <b>2014</b> , 114, 7317-420	68.1	185
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370	C-H-Funktionalisierung über intramolekularen Hydridtransfer. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 5110-5137	3.6	58
369	Branch-Selective Alkene Hydroarylation by Cooperative Destabilization: Iridium-Catalyzed ortho-Alkylation of Acetanilides. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 14866-70	16.4	77
368	Nickel-Catalyzed Insertion of Alkynes and Electron-Deficient Olefins into Unactivated sp <sup>(3)</sup> C-H Bonds. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 11320-4	4.8	62
367	Branch-Selective Alkene Hydroarylation by Cooperative Destabilization: Iridium-Catalyzed ortho-Alkylation of Acetanilides. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 15079-15083	3.6	32

366	Recent Advances in Catalytic Asymmetric C–C Bond-Forming Reactions to Ketimines Promoted by Metal-Based Catalysts. <b>2015</b> , 88, 503-517		67
365	Readily Removable Directing Group Assisted Chemo- and Regioselective C(sp <sup>3</sup> )-H Activation by Palladium Catalysis. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 13686-90	16.4	43
364	Highly Efficient Synthesis of Arylpyrrole Derivatives via Rh(III)-Catalyzed Direct C–H Arylation with Aryl Boronic Acids. <i>Chinese Journal of Chemistry</i> , <b>2015</b> , 33, 1015-1018	4.9	9
363	Readily Removable Directing Group Assisted Chemo- and Regioselective C(sp <sup>3</sup> )-H Activation by Palladium Catalysis. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 13890-13894	3.6	6
362	Fe(III)-Catalyzed Cross-Dehydrogenative Arylation (CDA) between Oxindoles and Arenes under an Air Atmosphere. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 16744-8	4.8	44
361	Iron-Catalyzed Directed Alkylation of Alkenes and Arenes with Alkylzinc Halides. <i>Advanced Synthesis and Catalysis</i> , <b>2015</b> , 357, 2175-2179	5.6	55
360	Ruthenium-Catalyzed Monoalkenylation of Aromatic Ketones by Cleavage of Carbon-Heteroatom Bonds with Unconventional Chemoselectivity. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 9425-9429	3.6	4
359	Ruthenium-Catalyzed Monoalkenylation of Aromatic Ketones by Cleavage of Carbon-Heteroatom Bonds with Unconventional Chemoselectivity. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 9293-7	16.4	35
358	Iridium-Catalyzed Annulation of Aromatic Imines with 1,3-Dienes via Direct Functionalization of an Aromatic C–H Bond. <i>Advanced Synthesis and Catalysis</i> , <b>2015</b> , 357, 1425-1436	5.6	28
357	Palladium-Catalyzed Enantioselective C–H Arylation for the Synthesis of P-Stereogenic Compounds. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 6363-6367	3.6	38
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352	Rhodium-catalyzed regioselective direct C–H arylation of indoles with aryl boronic acids. <b>2015</b> , 56, 3754-3757		32
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345	Regio- and stereoselective Pd-catalyzed direct arylation of unactivated sp <sup>3</sup> C(3)-H bonds of tetrahydrofuran and 1,4-benzodioxane systems. <i>Journal of Organic Chemistry</i> , <b>2015</b> , 80, 2339-55	4.2	46
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343	Synthesis of 2-Acylphenol and Flavene Derivatives from the Ruthenium-Catalyzed Oxidative C-H Acylation of Phenols with Aldehydes. <i>European Journal of Organic Chemistry</i> , <b>2015</b> , 2015, 1899-1904	3.2	22
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228	Palladium-on-Carbon-Catalyzed Coupling of Nitroarenes with Phenol: Biaryl Ether Synthesis and Evidence of an Oxidative-Addition-Promoted Mechanism. <i>European Journal of Organic Chemistry</i> , <b>2017</b> , 2017, 3244-3248	3.2	21
227	Biaryl Synthesis via C-H Bond Activation. <b>2017</b> , 67, 299-399		20
226	Pd(II)-Catalyzed Arylation and Intramolecular Amidation of C(sp <sup>3</sup> )-H Bonds: En Route to Arylheteroarylmethane and Pyrrolidone Ring Annulated Furan/Thiophene Scaffolds. <i>Journal of Organic Chemistry</i> , <b>2017</b> , 82, 7123-7150	4.2	28
225	DFT Studies of Ru-Catalyzed C-H versus C-H Bond Functionalization of Aryl Ethers with Organoboronates. <b>2017</b> , 36, 2354-2363		14
224	Iridium-catalyzed sp <sup>3</sup> C-H Alkylation of 3-Carbonyl-2-(alkylamino)pyridines with Alkenes. <i>Chemistry Letters</i> , <b>2017</b> , 46, 1176-1178	1.7	19
223	Switchable C-H Functionalization of N-Tosyl Acrylamides with Acryloylsilanes. <i>Organic Letters</i> , <b>2017</b> , 19, 2869-2872	6.2	29

222	Studies of the decomposition of the ethylene hydrophenylation catalyst TpRu(CO)(NCMe)Ph. <i>Journal of Organometallic Chemistry</i> , <b>2017</b> , 847, 289-293	2.3	3
221	An exhibition of different coordination modes displayed by 2-vinylpyrazine and 2-vinylpyridine at triosmium centres. <i>Journal of Organometallic Chemistry</i> , <b>2017</b> , 849-850, 80-87	2.3	5
220	Transition metal-catalyzed site- and regio-divergent C-H bond functionalization. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 4299-4328	58.5	337
219	Pd(II)-Catalyzed, Picolinamide-Assisted, Z-Selective $\beta$ -Arylation of Allylamines To Construct Z-Cinnamylamines. <i>Journal of Organic Chemistry</i> , <b>2017</b> , 82, 6550-6567	4.2	24
218	Pd-Catalyzed Direct ortho-C-H Arylation of Aromatic Ketones Enabled by a Transient Directing Group. <i>Organic Letters</i> , <b>2017</b> , 19, 1562-1565	6.2	66
217	Catalytic Coupling between Unactivated Aliphatic C-H Bonds and Alkynes via a Metal-Hydride Pathway. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 5716-5719	16.4	45
216	Rh/Cu-Catalyzed Cascade [4+2] Vinylic C-H O-Annulation and Ring Contraction of $\beta$ -Aryl Enones with Alkynes in Air. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 4350-4353	3.6	13
215	Electronic Control on Linear versus Branched Alkylation of 2-/3-Aroylbenzofurans with Acrylates: Combined DFT and Synthetic Studies. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 7570-7581	4.8	8
214	P(O)R-Directed Enantioselective C-H Olefination toward Chiral Atropoisomeric Phosphine-Olefin Compounds. <i>Organic Letters</i> , <b>2017</b> , 19, 1842-1845	6.2	87
213	Asymmetric Transformations under Iridium/Chiral Diene Catalysis. <i>ACS Catalysis</i> , <b>2017</b> , 7, 833-847	13.1	69
212	Rhodium(III)-Catalyzed Selective Monoarylation of $\beta$ - or $\gamma$ -C(sp)-H Bonds Assisted by a Trimethylpyrazole Group. <i>Organic Letters</i> , <b>2017</b> , 19, 356-359	6.2	27
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208	Hydroarylation of Alkynes and Alkenes using Group 7 <sup>th</sup> First-Row Transition Metal Catalysts. <b>2017</b> , 193-216		1
207	Synergistic Manganese(I) C-H Activation Catalysis in Continuous Flow: Chemoselective Hydroarylation. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 15063-15067	16.4	90
206	Synergistic Manganese(I) C-H Activation Catalysis in Continuous Flow: Chemoselective Hydroarylation. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 15259-15263	3.6	31
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200	Oxidative Heck Reaction as a Tool for Para-selective Olefination of Aniline: A DFT Supported Mechanism. <i>Journal of Organic Chemistry</i> , <b>2017</b> , 82, 10635-10640	4.2	18
199	Intramolecular C-H Activation Reactions of Ru(NHC) Complexes Combined with H <sub>2</sub> Transfer to Alkenes: A Theoretical Elucidation of Mechanisms and Effects of Ligands on Reactivities. <b>2017</b> , 36, 3613-3623		7
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197	Linear Selective C-H Bond Alkylation with Activated Olefins Catalyzed by Cp*CoIII. <i>European Journal of Organic Chemistry</i> , <b>2017</b> , 2017, 4370-4374	3.2	32
196	C(sp)-F, C(sp)-F and C(sp)-H bond activation at silicon(ii) centers. <i>Chemical Communications</i> , <b>2017</b> , 53, 9850-9853	5.8	29
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194	Ruthenium(II)-Catalyzed Redox-Neutral Oxidative Cyclization of Benzimidates with Alkenes with Hydrogen Evolution. <i>Organic Letters</i> , <b>2017</b> , 19, 6678-6681	6.2	28
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190	Lewis Acid Promoted Regioselective Double Hydro(hetero)arylation of 6,6'-Dialkyl-Substituted Pentafulvenes: A Facile Approach to Bisindole Derivatives. <i>European Journal of Organic Chemistry</i> , <b>2017</b> , 2017, 4469-4474	3.2	1
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188	Syntheses of RuHCl(CO)(PAr <sub>3</sub> ) <sub>3</sub> and RuH <sub>2</sub> (CO)(PAr <sub>3</sub> ) <sub>3</sub> Containing Various Triarylphosphines and Their Use for Arylation of Sterically Congested Aromatic C-H Bonds. <b>2017</b> , 36, 159-164		21
187	Metal-catalyzed CH activation/functionalization: The fundamentals. <b>2017</b> , 426, 275-296		166

186	Rhodium(III)-catalysed, redox-neutral C(sp <sup>2</sup> )-H alkenylation using pivalimide as a directing group with internal alkynes. <b>2017</b> , 58, 1-4		6
185	Palladium(II)-catalyzed arylation of unactivated C(sp <sup>3</sup> )-H bonds by using 2,1,3-benzoselenadiazole-4-amine as directing ligand. <b>2017</b> , 58, 54-58		6
184	Clean and selective catalytic C-H alkylation of alkenes with environmental friendly alcohols. <b>2017</b> , 435, 69-75		3
183	Mechanistic/Organometallic Aspects of Palladium-Catalyzed CH Bond Functionalization. <b>2017</b> , 417-452		
182	Cobalt-Catalyzed, N-H Imine-Directed Hydroarylation of Styrenes. <i>Organic Letters</i> , <b>2018</b> , 20, 1392-1395	6.2	22
181	Rhodium-Catalyzed Relay Carbenoid Functionalization of Aromatic C-H Bonds toward Fused Heteroarenes. <i>Organic Letters</i> , <b>2018</b> , 20, 1396-1399	6.2	103
180	Site-Selective C(sp <sup>3</sup> )-H Alkylation of Amino Acids and Peptides with Maleimides via a Six-Membered Palladacycle. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 5960-5964	3.6	40
179	Copper-Catalyzed C-H Ethoxycarbonyldifluoromethylation of Indoles and Pyrroles. <i>Asian Journal of Organic Chemistry</i> , <b>2018</b> , 7, 1319-1322	3	7
178	Site-Selective C(sp <sup>3</sup> )-H Alkylation of Amino Acids and Peptides with Maleimides via a Six-Membered Palladacycle. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 5858-5862	16.4	118
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171	Carboxyl-Directed Conjugate Addition of C-H Bonds to $\alpha,\beta$ -Unsaturated Ketones in Air and Water. <i>Advanced Synthesis and Catalysis</i> , <b>2018</b> , 360, 1358-1363	5.6	30
170	Iridium-Catalyzed Hydroarylation of Conjugated Dienes via $\pi$ -Allyliridium Intermediates. <i>Organic Letters</i> , <b>2018</b> , 20, 828-831	6.2	16
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165	Cobalt-Catalyzed Annulation Reactions via C-H Bond Activation. <b>2018</b> , 10, 683-705		105
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163	Nickel(0)-Catalyzed Hydroarylation of Styrenes and 1,3-Dienes with Organoboron Compounds. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 470-473	3.6	37
162	N-Propylphthalimide-substituted bis-(NHC)PdX <sub>2</sub> complexes: synthesis, characterization and catalytic activity in direct arylation reactions. <b>2018</b> , 43, 31-37		23
161	Distal Weak Coordination of Acetamides in Ruthenium(II)-Catalyzed C-H Activation Processes. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 773-776	3.6	20
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158	Distal Weak Coordination of Acetamides in Ruthenium(II)-Catalyzed C-H Activation Processes. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 765-768	16.4	62
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152	Palladium-Catalyzed C-H Alkenylation of Arenes with Alkynes: Stereoselective Synthesis of Vinyl Chlorides via a 1,4-Chlorine Migration. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 16041-16045	16.4	12
151	Palladium-Catalyzed C-H Alkenylation of Arenes with Alkynes: Stereoselective Synthesis of Vinyl Chlorides via a 1,4-Chlorine Migration. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 16273-16277	3.6	4

150	Mechanistic view of Ru-catalyzed C-H bond activation and functionalization: computational advances. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 7552-7576	58.5	141
149	Ruthenium-catalyzed annulation of aromatic ketones with internal alkynes: A reliable route to substituted naphthalene derivatives. <b>2018</b> , 74, 6263-6269		2
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144	Experimental and Computational Study of the (Z)-Selective Formation of Trisubstituted Olefins and Benzo-Fused Oxacycles from the Ruthenium-Catalyzed Dehydrative C-H Coupling of Phenols with Ketones. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 10289-10296	16.4	17
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142	Nickel(0)-catalyzed linear-selective hydroarylation of unactivated alkenes and styrenes with aryl boronic acids. <i>Chemical Science</i> , <b>2018</b> , 9, 6839-6843	9.4	68
141	Conjugate Addition of Perfluoroarenes to α,β-Unsaturated Carbonyls Enabled by an Alkoxide-Hydrosilane System: Implication of a Radical Pathway. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 9659-9668	16.4	13
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136	Cyclometalated Dicarboxyl Ruthenium Catalysts for Transfer Hydrogenation and Hydrogenation of Carbonyl Compounds. <b>2018</b> , 37, 2136-2146		17
135	Beyond Friedel and Crafts: Directed Alkylation of C-H Bonds in Arenes. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 7202-7236	16.4	62
134	Density Functional Theory Study of the Mechanisms of Iron-Catalyzed Regioselective Anti-Markovnikov Addition of C-H Bonds in Aromatic Ketones to Alkenes. <b>2019</b> , 33, e5183		5
133	Pd-catalyzed C≡C bond activation of Indoles for Suzuki reaction. <b>2019</b> , 131, 1		6

132	Nickel-Catalyzed Hydroarylation of Alkynes under Reductive Conditions with Aryl Bromides and Water. <i>Journal of Organic Chemistry</i> , <b>2019</b> , 84, 11612-11622	4.2	12
131	SeO <sub>2</sub> Mediated Synthesis of Selected Heterocycles by Oxidative C–C Bond Cleavage of Acetophenone Derivatives. <b>2019</b> , 4, 7585-7590		5
130	New molecular architectures containing low-valent cluster centres with di- and trimetalated 2-vinylpyrazine ligands: synthesis and molecular structures of Ru(CO)(EHNCH[double bond, length as m-dash]CH)(EH) and Ru(CO)(EHNCH[double bond, length as m-dash]C)(EH).. <b>2019</b> , 9, 21025-21030		2
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128	Nickel-catalyzed intermolecular oxidative Heck arylation driven by transfer hydrogenation. <b>2019</b> , 10, 5025		42
127	Enantioselective Intra- and Intermolecular Couplings. <b>2019</b> , 77-106		
126	Hydride–Rhodium(III)-N-Heterocyclic Carbene Catalyst for Tandem Alkylation/Alkenylation via C–H Activation. <i>ACS Catalysis</i> , <b>2019</b> , 9, 9372-9386	13.1	8
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124	Sequential -C–H and -C–O Functionalization Using a Bifunctional Directing Group. <i>Organic Letters</i> , <b>2019</b> , 21, 7928-7932	6.2	5
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120	Rhodium catalyzed template-assisted distal -C–H olefination. <i>Chemical Science</i> , <b>2019</b> , 10, 7426-7432	9.4	57
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117	Switchable C–H Alkylation of Aromatic Acids with Maleimides in Water: Carboxyl as a Diverse Directing Group. <b>2019</b> , 11, 4116-4122		12
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112	Ruthenium(II)-Catalyzed Distal Weak O-Coordinating C-H Alkylation of Arylacetamides with Alkenes: Combined Experimental and DFT Studies. <i>Journal of Organic Chemistry</i> , <b>2019</b> , 84, 3977-3989	4.2	16
111	Jenseits von Friedel und Crafts: dirigierte Alkylierung von C-H-Bindungen in Arenen. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 7278-7314	3.6	12
110	Chelation-directed remote meta-C-H functionalization of aromatic aldehydes and ketones. <i>Chemical Communications</i> , <b>2019</b> , 55, 12408-12411	5.8	13
109	Palladium(ii)-catalyzed synthesis of indenones through the cyclization of benzenecarbaldehydes with internal alkynes.. <b>2019</b> , 9, 31162-31168		3
108	Reusable Palladium Nanoparticles Catalyzed Oxime Ether Directed Mono Ortho-Hydroxylation under Phosphine Free Neutral Condition. <i>Advanced Synthesis and Catalysis</i> , <b>2019</b> , 361, 510-519	5.6	15
107	3d Transition Metals for C-H Activation. <i>Chemical Reviews</i> , <b>2019</b> , 119, 2192-2452	68.1	1073
106	One-pot, solvent-free Pd(II)-catalyzed direct C-H arylation of carboxamides involving anhydrides as substrates via in situ installation of directing group. <b>2019</b> , 75, 1246-1257		6
105	Iron-Enhanced Reactivity of Radicals Enables C-H Tertiary Alkylations for Construction of Functionalized Quaternary Carbons. <i>ACS Catalysis</i> , <b>2019</b> , 9, 1757-1762	13.1	32
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