

# Catalytic Enantioselective C<sup>α</sup>-H Activation by Means of Insertion

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Catalytic Enantioselective C-H Activation by Means of Metal-Carbenoid-Induced C-H Insertion. <i>ChemInform</i> , 2003, 34, no.	0.1	0
2	Direct gas-phase interaction of aryldiazoacetates and dirhodium catalysts. Electronic supplementary information (ESI) available: <sup>1</sup> H NMR spectra for compounds 1 and 2. See <a href="http://www.rsc.org/suppdata/dt/b3/b309809p/">http://www.rsc.org/suppdata/dt/b3/b309809p/</a> . <i>Dalton Transactions</i> , 2003, , 4221.	1.6	14
3	Asymmetric Catalysis Special Feature Part I: Asymmetric catalysis: An enabling science. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 5348-5355.	3.3	116
4	Asymmetric Catalysis Special Feature Part I: Catalytic asymmetric synthesis of all-carbon quaternary stereocenters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 5363-5367.	3.3	783
5	Asymmetric Catalysis Special Feature Part I: Catalytic enantioselective intermolecular cycloadditions of 2-diazo-3,6-diketoester-derived carbonyl ylides with alkene dipolarophiles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 5450-5454.	3.3	59
6	A New Dirhodium(II) Carboxamidate Complex as a Chiral Lewis Acid Catalyst for Enantioselective Hetero-Diels-Alder Reactions. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 2665-2668.	7.2	113
8	Stereo- and Regiocontrol in the Formation of Lactams by Rhodium-Carbenoid C-H Insertion of $\alpha$ -Diazoacetamides. <i>European Journal of Organic Chemistry</i> , 2004, 2004, 3773-3788.	1.2	108
9	Chiral Nonracemic Late-Transition-Metal Organometallics with a Metal-Bonded Stereogenic Carbon Atom: Development of New Tools for Asymmetric Organic Synthesis. <i>Chemistry - A European Journal</i> , 2004, 10, 2636-2646.	1.7	15
10	Dirhodium-catalyzed enantioselective C-H insertion of N-(2-benzyloxyethyl)-N-(tert-butyl)diazoacetamide and its application for the synthesis of chiral GABOB. <i>Chirality</i> , 2004, 16, 516-519.	1.3	8
11	Ruthenium-catalyzed cyclization of 3-en-1-ynyl imines with nucleophiles via tandem 5-exo-dig cyclization and nucleophilic addition. <i>Tetrahedron Letters</i> , 2004, 45, 9245-9247.	0.7	23
12	Transition metals in organic synthesis: highlights for the year 2002. <i>Coordination Chemistry Reviews</i> , 2004, 248, 1085-1158.	9.5	41
13	Multifunctional Behavior by a Bis-(phosphinimino)methanide Ligand: $\lambda^2$ - vs $\lambda^3$ -coordination vs Bronsted Basicity. <i>Journal of the American Chemical Society</i> , 2004, 126, 2312-2313.	6.6	37
14	Asymmetric synthesis of secondary alcohols from primary alcohols via intramolecular carbenoid C-H insertion catalyzed by rhodium(ii) 3-phenylcholestane-2-carboxylate. <i>Chemical Communications</i> , 2004, , 816-817.	2.2	11
15	Practical highly enantioselective synthesis of terminal propargylamines. An expeditious synthesis of (S)-(+)-coniine. <i>Chemical Communications</i> , 2004, , 2324.	2.2	110
17	Anomalous Intramolecular C-H Insertion Reactions of Rhodium Carbenoids: Factors Influencing the Reaction Course and Mechanistic Implications. <i>Journal of Organic Chemistry</i> , 2004, 69, 3886-3898.	1.7	35
18	Catalytic Asymmetric Reactions for Organic Synthesis: The Combined C-H Activation/Siloxy-Cope Rearrangement. <i>Journal of Organic Chemistry</i> , 2004, 69, 9241-9247.	1.7	49
19	Dirhodium(II) Tetra(N-(dodecylbenzenesulfonyl)prolinate) Catalyzed Enantioselective Cyclopropanation of Alkynes. <i>Organic Letters</i> , 2004, 6, 1233-1236.	2.4	115
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22	N <sup>3</sup> H Insertion Reactions of Primary Ureas: The Synthesis of Highly Substituted Imidazolones and Imidazoles from Diazocarbonyls. <i>Journal of Organic Chemistry</i> , 2004, 69, 8829-8835.	1.7	55
23	Highly Diastereoselective and Enantioselective C <sup>3</sup> H Functionalization of 1,2-Dihydronaphthalenes: A Combined C <sup>3</sup> H Activation/Cope Rearrangement Followed by a Retro-Cope Rearrangement. <i>Journal of the American Chemical Society</i> , 2004, 126, 10862-10863.	6.6	92
24	Enantioselective Synthesis of Cyclopropylphosphonates Containing Quaternary Stereocenters Using a D <sub>2</sub> -Symmetric Chiral Catalyst Rh <sub>2</sub> (S-bi-TISP) <sub>2</sub> . <i>Organic Letters</i> , 2004, 6, 2117-2120.	2.4	46
25	Ruthenium-catalysed carbenoid cyclopropanation reactions with diazo compounds. <i>Chemical Society Reviews</i> , 2004, 33, 183.	18.7	299
26	Process implementation aspects for biocatalytic hydrocarbon oxyfunctionalization. <i>Journal of Biotechnology</i> , 2004, 113, 183-210.	1.9	121
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31	Copper, silver and gold-based catalysts for carbene addition or insertion reactions. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 5441-5450.	0.8	117
32	Asymmetric C <sup>3</sup> H insertion of Rh(II) stabilized carbenoids into acetals: A C <sup>3</sup> H activation protocol as a Claisen condensation equivalent. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 6111-6124.	0.8	35
33	Preparation of enantioselective enriched $\hat{\pm}$ -(dialkoxyphosphoryl)lactams via intramolecular CH insertion with chiral dirhodium(II) catalysts. <i>Journal of Molecular Catalysis A</i> , 2005, 227, 17-24.	4.8	24
34	Dirhodium catalyzed intramolecular enantioselective C <sup>3</sup> H insertion reaction of N-cumyl-N-(2-p-anisylethyl)diazoacetamide: synthesis of ( $\hat{\pm}$ )-Rolipram. <i>Tetrahedron: Asymmetry</i> , 2005, 16, 1693-1698.	1.8	27
35	Catalytic and stereoselective iodination of prochiral C <sup>3</sup> H bonds. <i>Tetrahedron: Asymmetry</i> , 2005, 16, 3502-3505.	1.8	60
36	Synthesis of chiral $\hat{\pm}$ -lactams via Rh(II) catalyzed intramolecular C <sup>3</sup> H insertion: $\hat{\pm}$ -substituents and conformational effects. <i>Tetrahedron Letters</i> , 2005, 46, 143-146.	0.7	22
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39	The synthesis of baclofen and GABOB via Rh(II) catalyzed intramolecular C <sup>3</sup> H insertion of $\hat{\pm}$ -diazoacetamides. <i>Tetrahedron</i> , 2005, 61, 1579-1586.	1.0	35
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41	Synthetic approaches towards structurally diverse Î³-butyrolactone natural-product-like compounds. <i>Current Opinion in Chemical Biology</i> , 2005, 9, 285-292.	2.8	229
42	The chemistry of the carbon-transition metal double and triple bond: annual survey covering the year 2003. <i>Coordination Chemistry Reviews</i> , 2005, 249, 999-1083.	9.5	36
43	Homogeneous catalysis by gold: The current status of C,H activation. <i>Applied Catalysis A: General</i> , 2005, 291, 238-246.	2.2	61
44	Regioselective Nucleophilic Addition to Carbonyl Ylide Intermediates: A Novel Diastereoselective Synthesis of Cycloalkyl Fused Furan-3-ones. <i>Organic Letters</i> , 2005, 7, 4577-4580.	2.4	24
45	The Use of Tosylhydrazone Salts as a Safe Alternative for Handling Diazo Compounds and Their Applications in Organic Synthesis. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 1479-1492.	1.2	350
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52	Highly Enantio- and Diastereoselective Construction of 1,2-Disubstituted Cyclopentane Compounds by Dirhodium(II) Tetrakis[N-phthaloyl-(S)-tert-leucinate]-Catalyzed C-H Insertion Reactions of Î±-Diazo Esters. <i>Advanced Synthesis and Catalysis</i> , 2005, 347, 1483-1487.	2.1	86
53	Intramolecular 1,3-Dipolar Cycloaddition of Azomethine Ylides Generated from Ethoxycarbonylcarbenoids and Schiff Bases. <i>Russian Journal of Organic Chemistry</i> , 2005, 41, 1341-1348.	0.3	14
54	Functionalization of Primary Carbon-Hydrogen Bonds of Alkanes by Carbene Insertion with a Silver-Based Catalyst. <i>Organometallics</i> , 2005, 24, 1528-1532.	1.1	102
55	Sequential Cycloaddition Approach to the Tricyclic Core of Vibsantin E. Total Synthesis of (±)-5-epi-10-epi-Vibsantin E. <i>Organic Letters</i> , 2005, 7, 5561-5563.	2.4	43
56	A Fluorous Chiral Dirhodium(II) Complex as a Recyclable Asymmetric Catalyst. <i>Organic Letters</i> , 2005, 7, 1841-1844.	2.4	39
57	Enantioselective Double C-H Activation of Dihydronaphthalenes. <i>Organic Letters</i> , 2005, 7, 2293-2296.	2.4	31
59	Amplification of Asymmetric Induction in Sequential Reactions of Bis-diazoacetates Catalyzed by Chiral Dirhodium(II) Carboxamidates. <i>Organic Letters</i> , 2005, 7, 5035-5038.	2.4	27
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75	The Literature of Heterocyclic Chemistry, Part IX, 2002-2004. <i>Advances in Heterocyclic Chemistry</i> , 2006, , 145-258.	0.9	15
76	New Aspects of Catalytic Intramolecular C-H Amination: Unexpected Formation of a Seven-Membered Ring in Nitrogen-Containing Systems. <i>Organic Letters</i> , 2006, 8, 4493-4496.	2.4	61
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78	Dirhodium Tetracarboxylate Derived from Adamantylglycine as a Chiral Catalyst for Carbenoid Reactions. <i>Organic Letters</i> , 2006, 8, 3437-3440.	2.4	175
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92	Enantio- and Diastereocontrol in Intermolecular Cyclopropanation Reaction of Styrene Catalyzed by Dirhodium(II) Complexes with Bulky ortho-Metalated Aryl Phosphines: A Catalysis in Water as Solvent. Study of a (+)-Nonlinear Effect. <i>Organometallics</i> , 2006, 25, 4977-4984.	1.1	41
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97	Application of recyclable, polymer-immobilized iodine(III) oxidants in catalytic C-H bond functionalization. <i>Journal of Molecular Catalysis A</i> , 2006, 251, 108-113.	4.8	63
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103	Enantiomerically pure $\pm$ -pinene derivatives from material of 65% enantiomeric purity. Part 2: C2-symmetric N,N'-bis-(2-hydroxy)pinane diimines and diamines. <i>Tetrahedron: Asymmetry</i> , 2006, 17, 434-448.	1.8	9

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105	Diruthenium(I,I) saccharinate complexes: Synthesis, molecular structure, and evaluation as catalysts for carbenoid reactions of diazoacetates. <i>Journal of Organometallic Chemistry</i> , 2006, 691, 2774-2784.	0.8	22
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107	Efficient Diastereoselective Intermolecular Rhodium-Catalyzed $C\hat{I}\xi;H$ Amination. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 4641-4644.	7.2	241
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117	Diruthenium(I,I) Catalysts for the Formation of $\hat{I}^2$ - and $\hat{I}^3$ -Lactams via Carbenoid $C\hat{I}\xi;H$ Insertion of $\hat{I}\pm$ -Diazoacetamides. <i>Advanced Synthesis and Catalysis</i> , 2006, 348, 2203-2211.	2.1	51
118	Enantioselective Synthesis of 3-Arylindan-1-ones via Intramolecular C-H Insertion Reactions of $\hat{I}\pm$ -Diazo- $\hat{I}^2$ -Ketoesters Catalyzed by Chiral Dirhodium(II) Carboxylates. <i>Heterocycles</i> , 2006, 70, 635.	0.4	26
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138	Catalytic Multicomponent Reactions for the Synthesis of N-Aryl Trisubstituted Pyrroles. <i>Journal of Organic Chemistry</i> , 2007, 72, 1811-1813.	1.7	148
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438	Metal-Free C-H Insertions of Donor/Acceptor Carbenes. <i>Organic Letters</i> , 2012, 14, 4626-4629.	2.4	63

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845	Rh( $\eta^5$ -Cp) $\cdot$ -Catalyzed coupling of 2-bromoethyl aryldiazoacetates with tertiary propargyl alcohols through carbene migratory insertion. <i>Organic Chemistry Frontiers</i> , 2016, 3, 1691-1698.	2.3	7
846	Synthesis of 5-Iodo-1,2,3,4-tetrahydropyridines by Rhodium-Catalyzed Tandem Nucleophilic Attacks Involving 1-Sulfonyl-1,2,3-triazoles and Iodides. <i>Organic Letters</i> , 2016, 18, 4962-4965.	2.4	46

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848	DFT Calculations on the Mechanism of Transition-Metal-Catalyzed Reaction of Diazo Compounds with Phenols: O-H Insertion versus C-H Insertion. <i>Journal of Physical Chemistry A</i> , 2016, 120, 6485-6492.	1.1	45
849	Stabilization of a Chiral Dirhodium Carbene by Encapsulation and a Discussion of the Stereochemical Implications. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10760-10765.	7.2	64
850	Multicomponent reaction comprising one-pot installation of bidentate directing group and Pd(II)-catalyzed direct $\beta$ -arylation of C(sp <sup>3</sup> ) H bond of aliphatic and alicyclic carboxamides. <i>Tetrahedron</i> , 2016, 72, 5853-5863.	1.0	12
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861	Iridium(III)-Catalyzed Regioselective Intermolecular Unactivated Secondary C(sp <sup>3</sup> )-H Bond Amidation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11897-11901.	7.2	57
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867	Regioselective BF <sub>3</sub> ·Et <sub>2</sub> O-catalyzed C-H functionalization of indoles and pyrrole with reaction of $\hat{\text{I}}^{\pm}$ -diazophosphonates. <i>RSC Advances</i> , 2016, 6, 69352-69356.	1.7	5
868	Selective Synthesis of Six Products from a Single Indolyl $\hat{\text{I}}^{\pm}$ -Diazocarbonyl Precursor. <i>Angewandte Chemie</i> , 2016, 128, 9823-9827.	1.6	14
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870	Catalytic Asymmetric Synthesis of Phosphoryl-1,4-dihydropyridazines <i>via</i> an Enantioselective Allylic Alkylation/1,3-Dipolar Cycloaddition/Rearrangement Reaction Sequence. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 2280-2285.	2.1	11
871	Diazo Compounds: Versatile Tools for Chemical Biology. <i>ACS Chemical Biology</i> , 2016, 11, 3233-3244.	1.6	164
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885	The ligand influence in stereoselective carbene transfer reactions promoted by chiral metal porphyrin catalysts. <i>Dalton Transactions</i> , 2016, 45, 15746-15761.	1.6	30
886	Co <sup>III</sup> –Carbene Radical Approach to Substituted 1 <i>H</i> -Indenes. <i>Journal of the American Chemical Society</i> , 2016, 138, 8968-8975.	6.6	117
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895	Evolution of C–H Bond Functionalization from Methane to Methodology. <i>Journal of the American Chemical Society</i> , 2016, 138, 2-24.	6.6	632
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899	Cu(I)-Catalyzed Synthesis of Furan-Substituted Allenes by Use of Conjugated Ene-yne Ketones as Carbene Precursors. <i>Journal of Organic Chemistry</i> , 2016, 81, 3275-3285.	1.7	43
900	Ruthenium-catalyzed direct arylations with aryl chlorides. <i>RSC Advances</i> , 2016, 6, 30875-30885.	1.7	49
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904	Synthesis of bicyclic $\beta$ -butyrolactone derivatives by rhodium catalyzed intramolecular C-H insertion of $\alpha$ -diazoo $\beta$ -phosphoryl cycloalkyl esters. <i>Tetrahedron</i> , 2016, 72, 1590-1601.	1.0	9
905	Synergistic Rhodium/Copper Catalysis: Synthesis of 1,3-Enynes and <i>N</i> -Aryl Enaminones. <i>Organic Letters</i> , 2016, 18, 1298-1301.	2.4	46
906	Taming tosyl azide: the development of a scalable continuous diazo transfer process. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 3423-3431.	1.5	40
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915	Applications of C-H Insertion Reaction in Total Synthesis of Biologically Active Heterocyclic Natural Products. <i>Heterocycles</i> , 2016, 92, 31.	0.4	11
916	Computational Studies on Rhodium(III) Catalyzed C-H Functionalization versus Deoxygenation of Quinoline N-Oxides with Diazo Compounds. <i>Organometallics</i> , 2017, 36, 650-656.	1.1	19
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919	Iridium catalyzed acceptor/acceptor carbene insertion into N-H bonds in water. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 2392-2396.	1.5	23
920	First Insertions of Carbene Ligands into Ge-N and Si-N Bonds. <i>Chemistry - A European Journal</i> , 2017, 23, 4287-4291.	1.7	13

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923	Asymmetric Reaction of $\alpha$ -Diazomethylphosphonates with $\alpha$ -Ketoesters To Access Optically Active $\alpha$ -Diazo- $\beta$ -hydroxyphosphonate Derivatives. <i>Organic Letters</i> , 2017, 19, 1310-1313.	2.4	22
924	Palladium-catalysed intramolecular carbenoid insertion of $\alpha$ -diazo- $\alpha$ -(methoxycarbonyl)acetanilides for oxindole synthesis. <i>Chemical Communications</i> , 2017, 53, 3110-3113.	2.2	15
925	Enantioselective Aza-ene-type Reactions of Enamides with Gold Carbenes Generated from $\alpha$ -Diazoesters. <i>Angewandte Chemie</i> , 2017, 129, 3295-3299.	1.6	6
926	A Rh(II)-catalyzed multicomponent reaction by trapping an $\alpha$ -amino enol intermediate in a traditional two-component reaction pathway. <i>Science Advances</i> , 2017, 3, e1602467.	4.7	42
927	Late stage modification of peptides via C-H activation reactions. <i>Tetrahedron Letters</i> , 2017, 58, 1357-1372.	0.7	71
928	Enantioselective copper catalysed intramolecular C-H insertion reactions of $\alpha$ -diazo- $\beta$ -keto sulfones, $\alpha$ -diazo- $\beta$ -keto phosphine oxides and 2-diazo-1,3-diketones; the influence of the carbene substituent. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 2609-2628.	1.5	12
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930	Metal-Free C-H Functionalization of Alkanes by Aryldiazoacetates. <i>Organic Letters</i> , 2017, 19, 770-773.	2.4	48
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936	Asymmetric Copper-Catalyzed Carbomagnesiation of Cyclopropenes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6783-6787.	7.2	106
937	Mechanism of Nickel-Catalyzed Suzuki-Miyaura Coupling of Amides. <i>Chemistry - an Asian Journal</i> , 2017, 12, 1765-1772.	1.7	25
938	Rhodium-catalyzed synthesis of 1,2-dihydropyridine by a tandem reaction of 4-(1-acetoxyallyl)-1-sulfonyl-1,2,3-triazole. <i>Chemical Communications</i> , 2017, 53, 6417-6420.	2.2	39
939	$\alpha$ -Diazo oxime ethers for N-heterocycle synthesis. <i>Chemical Communications</i> , 2017, 53, 6054-6064.	2.2	35
940	Radical-carbene coupling reaction: Mn-catalyzed synthesis of indoles from aromatic amines and diazo compounds. <i>Chemical Communications</i> , 2017, 53, 5993-5996.	2.2	28

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941	A Rhodium(II)-Catalyzed Formal [4+1]-Cycloaddition toward Spirooxindole Pyrrolone Construction Employing Vinyl Isocyanates as 1,4-Dipoles. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6604-6608.	7.2	41
942	Specific intramolecular aromatic C-H insertion of diazosulfonamides. <i>Tetrahedron</i> , 2017, 73, 3255-3265.	1.0	15
943	Rearrangement of an Intermediate Cyclopropyl Ketene in a Rh <sup>III</sup> -Catalyzed Formal [4 + 1]-Cycloaddition Employing Vinyl Ketenes as 1,4-Dipoles and Donor-Acceptor Metallocarbenes. <i>Organic Letters</i> , 2017, 19, 2482-2485.	2.4	27
944	Palladium-Catalyzed Transformations of Alkyl C-H Bonds. <i>Chemical Reviews</i> , 2017, 117, 8754-8786.	23.0	1,660
945	Synthesis of Donor/Acceptor-Substituted Diazo Compounds in Flow and Their Application in Enantioselective Dirhodium-Catalyzed Cyclopropanation and C-H Functionalization. <i>Organic Letters</i> , 2017, 19, 3055-3058.	2.4	33
946	Fe-Catalyzed insertion of fluoromethylcarbenes generated from sulfonium salts into X-H bonds (X = Tj ETQq1 1,0,784314,rgBT /O	2.3	16
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950	Recent progress in the catalytic carbene insertion reactions into the silicon-hydrogen bond. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 5441-5456.	1.5	88
951	Enabling iron catalyzed Doyle-Kirmse rearrangement reactions with in situ generated diazo compounds. <i>Chemical Communications</i> , 2017, 53, 6577-6580.	2.2	67
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955	Iron-Catalyzed C-H Bond Activation. <i>Chemical Reviews</i> , 2017, 117, 9086-9139.	23.0	750
956	Gold-catalyzed oxidative couplings of two indoles with one aryldiazo cyanide under oxidant-free conditions. <i>Chemical Communications</i> , 2017, 53, 4593-4596.	2.2	37
957	Difluorocarbene transfer from a cobalt complex to an electron-deficient alkene. <i>Chemical Communications</i> , 2017, 53, 4382-4385.	2.2	40
958	Scope of the Reactions of Indolyl- and Pyrrolyl-Tethered N-Sulfonyl-1,2,3-triazoles: Rhodium(II)-Catalyzed Synthesis of Indole- and Pyrrole-Fused Polycyclic Compounds. <i>Organic Letters</i> , 2017, 19, 1504-1507.	2.4	59



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960	Anilinopyridinate-supported Ru <sub>2</sub> <sup>x+</sup> (x = 5 or 6) paddlewheel complexes with labile axial ligands. <i>Dalton Transactions</i> , 2017, 46, 5532-5539.	1.6	8
961	C-H imidation: a distinct perspective of C-N bond formation. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 1282-1293.	1.5	55
962	Copper-Catalyzed Cascade Cyclization Reactions of Isocyanides with $\alpha$ -Diazocarbonyls as Terminal Electrophiles: Efficient Synthesis of $\alpha$ -imidazolines and 1,1 $\beta$ -imidazoles. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 351-356.	2.1	29
963	Funktionalisierung nichtaktivierter C(sp <sup>3</sup> )-H-Bindungen durch Metallcarben-Insertionen. <i>Angewandte Chemie</i> , 2017, 129, 46-48.	1.6	11
964	Rh(II) Catalyzed High Order Cycloadditions of 8-Azaheptafulvenes with N-Sulfonyl 1,2,3-Triazoles or $\alpha$ -Oxo Diazocompounds. <i>Organic Letters</i> , 2017, 19, 364-367.	2.4	43
965	A one-pot synthesis of [1,2,3]triazolo[1,5-a]quinoxalines from 1-azido-2-isocyanoarenes with high bond-forming efficiency. <i>Chemical Communications</i> , 2017, 53, 1305-1308.	2.2	41
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981	Synthesis of Imidazopyridines via Copper-Catalyzed, Formal Aza-[3 + 2] Cycloaddition Reaction of Pyridine Derivatives with $\pm$ -Diazo Oxime Ethers. <i>Journal of Organic Chemistry</i> , 2017, 82, 10209-10218.	1.7	30
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989	A Concise Enantioselective Total Synthesis of (âˆ“)âˆ“Virosaineâˆ“...A. <i>Angewandte Chemie</i> , 2017, 129, 10970-10974.	4.6	13
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993	Synthesis of Bicyclo[ <i>n</i> .1.0]alkanes by a Cobalt-Catalyzed Multiple C(sp <sup>3</sup> ) <sup>•</sup> H Activation Strategy. <i>Angewandte Chemie</i> , 2017, 129, 13325-13329.	1.6	46
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1037	Cobalt(II)-based Metalloradical Activation of 2-(Diazomethyl)pyridines for Radical Transannulation and Cyclopropanation. <i>Angewandte Chemie</i> , 2018, 130, 2260-2265.	1.6	25
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1044	Counterion effect and directing group effect in Rh-mediated C-H bond activation processes: A theoretical study. <i>Journal of Organometallic Chemistry</i> , 2018, 864, 148-153.	0.8	8
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1051	Cobalt(II)â€Based Metalloradical Activation of 2â€(Diazomethyl)pyridines for Radical Transannulation and Cyclopropanation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2238-2243.	7.2	99
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1056	Palladiumâ€Catalyzed Intermolecular Acylation of Aryl Diazoesters with <i>ortho</i> -â€Bromobenzaldehydes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 319-323.	7.2	46
1057	Cyclopropanation of Benzene Rings by Oxidatively Generated Î±â€Oxo Gold Carbene: Oneâ€Pot Access to Tetrahydropyranoneâ€Fused Cycloheptatrienes from Propargyl Benzyl Ethers. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 647-651.	2.1	25
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1070	Direct C(sp <sup>3</sup> )-H functionalization of 2-methylazaarenes using 4-substituted-TEMPO. <i>Tetrahedron Letters</i> , 2018, 59, 4454-4457.	0.7	1

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1073	Silver-Catalyzed Olefination of Acetals and Ketals with Diazoesters to $\beta^2$ -Alkoxyacrylates. <i>Organic Letters</i> , 2018, 20, 7090-7094.	2.4	6
1074	Iridium-Catalyzed, $\beta^2$ -Selective C(sp <sup>3</sup> ) $\alpha^{\text{H}}$ Silylation of Aliphatic Amines To Form Silapyrrolidines and 1,2-Amino Alcohols. <i>Journal of the American Chemical Society</i> , 2018, 140, 18032-18038.	6.6	77
1075	Iron-Catalyzed Carbenoid $\alpha^{\text{H}}$ Transfer Reactions of Vinyl Sulfoxonium Ylides: An Experimental and Computational Study. <i>Angewandte Chemie</i> , 2018, 130, 16412-16416.	1.6	6
1076	Iron-Catalyzed Carbenoid $\alpha^{\text{H}}$ Transfer Reactions of Vinyl Sulfoxonium Ylides: An Experimental and Computational Study. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16180-16184.	7.2	52
1077	Bimetallic Rhodium(II)/Indium(III) Relay Catalysis for Tandem Insertion/Asymmetric Claisen Rearrangement. <i>Angewandte Chemie</i> , 2018, 130, 16792-16796.	1.6	20
1078	BF <sub>3</sub> -Promoted, Carbene-like, C <sup>α</sup> H Insertion Reactions of Benzynes. <i>Journal of the American Chemical Society</i> , 2018, 140, 15616-15620.	6.6	31
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1083	Enantioselective Synthesis of Indolines, Benzodihydrothiophenes, and Indanes by C <sup>α</sup> H Insertion of Donor/Donor Carbenes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15213-15216.	7.2	37
1084	Asymmetric Rh(I)-Catalyzed Functionalization of the 3-C(sp <sup>3</sup> ) $\alpha^{\text{H}}$ Bond of Benzofuranones with $\beta^2$ -Diazoesters. <i>Organic Letters</i> , 2018, 20, 5889-5893.	2.4	24
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1087	Selective C(sp <sup>3</sup> ) $\alpha^{\text{H}}$ Bond Insertion in Carbene/Alkyne Metathesis Reactions. Enantioselective Construction of Dihydroindoles. <i>ACS Catalysis</i> , 2018, 8, 9543-9549.	5.5	48
1088	Recent advances in $\beta^2$ -lactam synthesis. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 6840-6852.	1.5	86
1089	Asymmetric Preparation of Polysubstituted Cyclopropanes Based on Direct Functionalization of Achiral Three-Membered Carbocycles. <i>Chemical Reviews</i> , 2018, 118, 8415-8434.	23.0	163

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1091	Rationally Designing Regiodivergent Dipolar Cycloadditions: Frontier Orbitals Show How To Switch between [5 + 3] and [4 + 2] Cycloadditions. <i>ACS Catalysis</i> , 2018, 8, 6353-6361.	5.5	30
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1095	Gold-Catalyzed Formal C-C Bond Insertion Reaction of 2-Aryldiazoesters with 1,3-Diketones. <i>Chemistry - an Asian Journal</i> , 2018, 13, 2606-2610.	1.7	17
1096	Pincer Carbenoid Complexes With Late Transition Metals. , 2018, , 359-381.		4
1097	Rhodium(I)-Catalyzed Coupling-Cyclization of C-O Bonds with $\alpha$ -Diazoketones. <i>Organic Letters</i> , 2018, 20, 3980-3983.	2.4	19
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1099	Ru (II)-Catalyzed Coupling-Cyclization of Sulfoximines with $\alpha$ -Carbonyl Sulfoxonium Ylides as an Approach to 1,2-Benzothiazines. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 3534-3543.	2.1	80
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1101	Rh(III)-Catalyzed C-C Coupling of Diverse Arenes and 4-Acyl-1-sulfonyltriazoles via C-H Activation. <i>Organic Letters</i> , 2018, 20, 4946-4949.	2.4	32
1102	Highly Chemo- and Stereoselective Catalyst-Controlled Allylic C-H Insertion and Cyclopropanation Using Donor/Donor Carbenes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12405-12409.	7.2	83
1103	Catalyst-dependent selectivity in sulfonium ylide cycloisomerization reactions. <i>Chemical Science</i> , 2018, 9, 7091-7095.	3.7	19
1104	Complexes of [( <i>dad</i> )Ti(L/X)] <sub>m</sub> That Reveal Redox Non-Innocence and a Stepwise Carbene Insertion into a Carbon-Carbon Bond. <i>Organometallics</i> , 2018, 37, 3488-3501.	1.1	13
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1106	Manganese Catalyzed Regioselective C-H Alkylation: Experiment and Computation. <i>Organic Letters</i> , 2018, 20, 3105-3108.	2.4	58
1107	Palladium-Catalyzed C-H Amination of C(sp <sup>2</sup> ) and C(sp <sup>3</sup> )-H Bonds: Mechanism and Scope for N-Based Molecule Synthesis. <i>ACS Catalysis</i> , 2018, 8, 5732-5776.	5.5	127



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1129	Iminyl Radical-Triggered Intermolecular Distal C(sp <sup>3</sup> )–H Heteroarylation via 1,5-Hydrogen-Atom Transfer (HAT) Cascade. <i>Organic Letters</i> , 2019, 21, 917-920.	2.4	77
1130	Chiral Heterobimetallic Bismuth–Rhodium Paddlewheel Catalysts: A Conceptually New Approach to Asymmetric Cyclopropanation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3557-3561.	7.2	32
1131	Solid-state NMR of nanocrystals. <i>Annual Reports on NMR Spectroscopy</i> , 2019, 97, 1-82.	0.7	22
1132	Donor Rhodium Carbenes by Retro–Buchner Reaction. <i>Angewandte Chemie</i> , 2019, 131, 2110-2114.	1.6	8
1133	Palladium-catalyzed oxidative borylation of conjugated enynes through carbene migratory insertion: synthesis of furyl-substituted alkenylboronates. <i>Chemical Communications</i> , 2019, 55, 59-62.	2.2	22
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1147	Computational insights into different chemoselectivities in Rh <sub>2</sub> ( <i>scp</i> )-catalyzed <i>i</i> -N-aryl nitrene and analogous Rh <sub>2</sub> ( <i>scp</i> )/Cu( <i>scp</i> )-catalyzed aryl-substituted carbene involving reactions. <i>Catalysis Science and Technology</i> , 2019, 9, 1518-1527.	2.1	6
1148	Three-Component [2+2+1] Gold(I)-Catalyzed Oxidative Generation of Fully Substituted 1,3-Oxazoles Involving Internal Alkynes. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 2926-2935.	2.1	35
1149	Cyclopropane-alkene metathesis by gold( <i>scp</i> )-catalyzed decarbenation of persistent cyclopropanes. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 4216-4219.	1.5	12
1150	Catalytic Asymmetric Synthesis of Isoindolinones. <i>Chemistry - an Asian Journal</i> , 2019, 14, 1306-1322.	1.7	45
1151	Total Synthesis of ( $\hat{\sim}$ )-Salinosporamide...A via a Late Stage C-H Insertion. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10110-10113.	7.2	18
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1153	Predictive Model for the [Rh <sub>2</sub> ( <i>esp</i> ) <sub>2</sub> ]-Catalyzed Intermolecular C(sp <sup>3</sup> )-H Bond Insertion of $\hat{1}$ -Carbonyl Ester Carbenes: Interplay between Theory and Experiment. <i>ACS Catalysis</i> , 2019, 9, 4526-4538.	5.5	23
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1158	Rh(II)-Catalyzed Spirocyclization of $\hat{\pm}$ -Diazo Homophthalimides with Cyclic Ethers. <i>Journal of Organic Chemistry</i> , 2019, 84, 4534-4542.	1.7	33
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1163	Rhodium-catalyzed synthesis of C <sub>4</sub> -chalcogenoalkylated oxindoles via Sommelet-Hauser type rearrangement of 3-diazoindolin-2-ones. <i>Journal of Chemical Sciences</i> , 2019, 131, 1.	0.7	4
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1169	Recent developments in photochemical reactions of diazo compounds. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 432-448.	1.5	220
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1179	Enantioselective synthesis of isochromans and tetrahydroisoquinolines by C-H insertion of donor/donor carbenes. <i>Chemical Science</i> , 2020, 11, 494-498.	3.7	31
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1187	Hypervalent Iodine-Mediated Carbon-Carbon Bond Cleavage and Dearomatization of 9-H-Fluorenes. <i>Angewandte Chemie</i> , 2020, 132, 3117-3122.	1.6	4
1188	Iridium(III)-Catalyzed Intermolecular C(sp <sup>3</sup> )-H Insertion Reaction of Quinoid Carbene: A Radical Mechanism. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1845-1850.	7.2	33
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1197	Synthesis of 2,3-diiminoindolines and 2,3-diaminoindoles via copper-catalyzed donor-acceptor metallo carbenoid formation and hydrogenation reactions. <i>Tetrahedron Letters</i> , 2020, 61, 152314.	0.7	4
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1207	Reaction mechanisms and topological analyses for the C-H activation of ethylene by uranium atom using density functional theory. <i>Computational and Theoretical Chemistry</i> , 2020, 1190, 113022.	1.1	1
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1209	Reactions between Diazo Compounds and Hypervalent Iodine(III) Reagents. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12282-12292.	7.2	35
1210	Reactions between Diazo Compounds and Hypervalent Iodine(III) Reagents. <i>Angewandte Chemie</i> , 2020, 132, 12378-12388.	1.6	4
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