

Guangbin Dong

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7818361/guangbin-dong-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

193
papers

10,788
citations

56
h-index

98
g-index

208
ext. papers

12,617
ext. citations

12.9
avg, IF

7.42
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 193 | Transition-Metal-Catalyzed C-H Alkylation Using Alkenes. <i>Chemical Reviews</i> , 2017 , 117, 9333-9403 | 68.1 | 669 |
| 192 | Transition metal-catalyzed ketone-directed or mediated C-H functionalization. <i>Chemical Society Reviews</i> , 2015 , 44, 7764-86 | 58.5 | 404 |
| 191 | Recent applications of arene diazonium salts in organic synthesis. <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 1582-93 | 3.9 | 337 |
| 190 | Simple Amine-Directed Meta-Selective C-H Arylation via Pd/Norbornene Catalysis. <i>Journal of the American Chemical Society</i> , 2015 , 137, 5887-90 | 16.4 | 315 |
| 189 | "Cut and Sew" Transformations via Transition-Metal-Catalyzed Carbon-Carbon Bond Activation. <i>ACS Catalysis</i> , 2017 , 7, 1340-1360 | 13.1 | 266 |
| 188 | Ortho vs ipso: site-selective Pd and norbornene-catalyzed arene C-H amination using aryl halides. <i>Journal of the American Chemical Society</i> , 2013 , 135, 18350-3 | 16.4 | 236 |
| 187 | Total synthesis of bryostatin 16 using atom-economical and chemoselective approaches. <i>Nature</i> , 2008 , 456, 485-8 | 50.4 | 212 |
| 186 | Direct activation of relatively unstrained carbon-carbon bonds in homogeneous systems. <i>Organic Chemistry Frontiers</i> , 2014 , 1, 567-581 | 5.2 | 210 |
| 185 | C-H bond activation. Regioselective ketone alkylation with simple olefins via dual activation. <i>Science</i> , 2014 , 345, 68-72 | 33.3 | 204 |
| 184 | Palladium/Norbornene Cooperative Catalysis. <i>Chemical Reviews</i> , 2019 , 119, 7478-7528 | 68.1 | 200 |
| 183 | Catalytic functionalization of unactivated sp ³ C-H bonds via exo-directing groups: synthesis of chemically differentiated 1,2-diols. <i>Journal of the American Chemical Society</i> , 2012 , 134, 16991-4 | 16.4 | 183 |
| 182 | Palladium-catalyzed dynamic kinetic asymmetric transformations of vinyl aziridines with nitrogen heterocycles: rapid access to biologically active pyrroles and indoles. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15800-7 | 16.4 | 180 |
| 181 | Synthesis of ortho-acylphenols through the palladium-catalyzed ketone-directed hydroxylation of arenes. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 13075-9 | 16.4 | 178 |
| 180 | Rhodium-catalyzed regioselective carboacylation of olefins: a C-C bond activation approach for accessing fused-ring systems. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7567-71 | 16.4 | 175 |
| 179 | Catalytic activation of carbon-carbon bonds in cyclopentanones. <i>Nature</i> , 2016 , 539, 546-550 | 50.4 | 173 |
| 178 | Catalytic C(sp ³)-H Arylation of Free Primary Amines with an exo Directing Group Generated In Situ. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9084-7 | 16.4 | 172 |
| 177 | Primary alcohols from terminal olefins: formal anti-Markovnikov hydration via triple relay catalysis. <i>Science</i> , 2011 , 333, 1609-12 | 33.3 | 167 |

| | | | |
|-----|---|------|-----|
| 176 | Highly enantioselective Rh-catalyzed carboacylation of olefins: efficient syntheses of chiral poly-fused rings. <i>Journal of the American Chemical Society</i> , 2012 , 134, 20005-8 | 16.4 | 165 |
| 175 | sp C-H activation -type directing groups. <i>Chemical Science</i> , 2018 , 9, 1424-1432 | 9.4 | 158 |
| 174 | Cooperative activation of cyclobutanones and olefins leads to bridged ring systems by a catalytic [4 + 2] coupling. <i>Nature Chemistry</i> , 2014 , 6, 739-44 | 17.6 | 147 |
| 173 | New class of nucleophiles for palladium-catalyzed asymmetric allylic alkylation. Total synthesis of agelastatin A. <i>Journal of the American Chemical Society</i> , 2006 , 128, 6054-5 | 16.4 | 140 |
| 172 | Divergent syntheses of fused β -aphthol and indene scaffolds by rhodium-catalyzed direct and decarbonylative alkyne-benzocyclobutenone couplings. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 1674-8 | 16.4 | 132 |
| 171 | Rh-Catalyzed decarbonylative coupling with alkynes via C-C activation of isatins. <i>Journal of the American Chemical Society</i> , 2015 , 137, 1408-11 | 16.4 | 131 |
| 170 | Ortho C-H Acylation of Aryl Iodides by Palladium/Norbornene Catalysis. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 12664-8 | 16.4 | 126 |
| 169 | Enantioselective Rh-Catalyzed Carboacylation of C \equiv N Bonds via C-C Activation of Benzocyclobutenones. <i>Journal of the American Chemical Society</i> , 2016 , 138, 369-74 | 16.4 | 106 |
| 168 | (4+1) vs (4+2): Catalytic Intramolecular Coupling between Cyclobutanones and Trisubstituted Allenes via C-C Activation. <i>Journal of the American Chemical Society</i> , 2015 , 137, 13715-21 | 16.4 | 102 |
| 167 | Efficient and highly aldehyde selective Wacker oxidation. <i>Organic Letters</i> , 2012 , 14, 3237-9 | 6.2 | 94 |
| 166 | Tetramethyl thiourea/Co ₂ (CO) ₈ -catalyzed Pauson-Khand reaction under balloon pressure of CO. <i>Organic Letters</i> , 2005 , 7, 593-5 | 6.2 | 93 |
| 165 | Catalytic direct β -arylation of simple ketones with aryl iodides. <i>Journal of the American Chemical Society</i> , 2013 , 135, 17747-50 | 16.4 | 92 |
| 164 | Site-Selectivity Control in Organic Reactions: A Quest To Differentiate Reactivity among the Same Kind of Functional Groups. <i>Accounts of Chemical Research</i> , 2017 , 50, 465-471 | 24.3 | 89 |
| 163 | Direct Annulation between Aryl Iodides and Epoxides through Palladium/Norbornene Cooperative Catalysis. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 1697-1701 | 16.4 | 87 |
| 162 | Coupling of sterically hindered trisubstituted olefins and benzocyclobutenones by C-C activation: total synthesis and structural revision of cycloinumakiol. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 10733-6 | 16.4 | 87 |
| 161 | Rhodium(I)-catalyzed decarbonylative spirocyclization through C-C bond cleavage of benzocyclobutenones: an efficient approach to functionalized spirocycles. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 1891-5 | 16.4 | 87 |
| 160 | Deacylative transformations of ketones via aromatization-promoted C-C bond activation. <i>Nature</i> , 2019 , 567, 373-378 | 50.4 | 85 |
| 159 | Catalytic CC bond forming transformations via direct ECH functionalization of carbonyl compounds. <i>Tetrahedron Letters</i> , 2014 , 55, 5869-5889 | 2 | 84 |

- 158 Complementary site-selectivity in arene functionalization enabled by overcoming the ortho constraint in palladium/norbornene catalysis. *Nature Chemistry*, **2018**, 10, 866-872 17.6 83
- 157 Cyclobutenones and Benzocyclobutenones: Versatile Synthons in Organic Synthesis. *Chemistry - A European Journal*, **2016**, 22, 18290-18315 4.8 81
- 156 Computational Study of Rh-Catalyzed Carboacylation of Olefins: Ligand-Promoted Rhodacycle Isomerization Enables Regioselective C-C Bond Functionalization of Benzocyclobutenones. *Journal of the American Chemical Society*, **2015**, 137, 8274-83 16.4 81
- 155 Total synthesis of bryostatin 16 using a Pd-catalyzed diyne coupling as macrocyclization method and synthesis of C20-epi-bryostatin 7 as a potent anticancer agent. *Journal of the American Chemical Society*, **2010**, 132, 16403-16 16.4 81
- 154 Alcohols or Masked Alcohols as Directing Groups for C-H Bond Functionalization. *Chemistry Letters*, **2014**, 43, 264-271 1.7 78
- 153 Rh(I)-catalyzed decarbonylation of diynones via C-C activation: orthogonal synthesis of conjugated diynes. *Organic Letters*, **2013**, 15, 2242-5 6.2 78
- 152 Thioureas as ligands in the Pd-catalyzed intramolecular Pauson-Khand reaction. *Organic Letters*, **2005**, 7, 1657-9 6.2 78
- 151 Asymmetric annulation toward pyrrolo-piperazinones: concise enantioselective syntheses of pyrrole alkaloid natural products. *Organic Letters*, **2007**, 9, 2357-9 6.2 77
- 150 Diverse sp³ C-H functionalization through alcohol β -sulfonyloxylation. *Nature Chemistry*, **2015**, 7, 829-34 17.6 76
- 149 A Hydrazone-Based exo-Directing-Group Strategy for C-H Oxidation of Aliphatic Amines. *Angewandte Chemie - International Edition*, **2016**, 55, 5299-303 16.4 73
- 148 Decarbonylative C-C bond forming reactions mediated by transition metals. *Science China Chemistry*, **2013**, 56, 685-701 7.9 73
- 147 A stereodivergent strategy to both product enantiomers from the same enantiomer of a stereoinducing catalyst: agelastatin A. *Chemistry - A European Journal*, **2009**, 15, 6910-9 4.8 69
- 146 Catalytic intermolecular C-alkylation of 1,2-diketones with simple olefins: a recyclable directing group strategy. *Journal of the American Chemical Society*, **2012**, 134, 13954-7 16.4 67
- 145 Cyclic Ether Synthesis via Palladium-Catalyzed Directed Dehydrogenative Annulation at Unactivated Terminal Positions. *Journal of the American Chemical Society*, **2015**, 137, 11586-9 16.4 66
- 144 Modular ipso/ortho Difunctionalization of Aryl Bromides via Palladium/Norbornene Cooperative Catalysis. *Journal of the American Chemical Society*, **2018**, 140, 8551-8562 16.4 66
- 143 Transition metal-catalyzed C-C bond activation of four-membered cyclic ketones. *Topics in Current Chemistry*, **2014**, 346, 233-57 63
- 142 Reagent-Enabled ortho-Alkoxy-carbonylation of Aryl Iodides via Palladium/Norbornene Catalysis. *Chem*, **2016**, 1, 581-591 16.2 61
- 141 Bifunctional Ligand-Assisted Catalytic Ketone β -Alkylation with Internal Alkynes: Controlled Synthesis of Enones and Mechanistic Studies. *Journal of the American Chemical Society*, **2015**, 137, 15518-27 16.4 59

| | | | |
|-----|---|------|----|
| 140 | Distal-Bond-Selective C-C Activation of Ring-Fused Cyclopentanones: An Efficient Access to Spiroindanones. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 2376-2380 | 16.4 | 56 |
| 139 | Direct Catalytic Desaturation of Lactams Enabled by Soft Enolization. <i>Journal of the American Chemical Society</i> , 2017 , 139, 7757-7760 | 16.4 | 56 |
| 138 | Rh-Catalyzed Decarbonylation of Conjugated Ynones via Carbon-Alkyne Bond Activation: Reaction Scope and Mechanistic Exploration via DFT Calculations. <i>Chemical Science</i> , 2015 , 6, 3201-3210 | 9.4 | 56 |
| 137 | Temporary or removable directing groups enable activation of unstrained C-C bonds. <i>Nature Reviews Chemistry</i> , 2020 , 4, 600-614 | 34.6 | 56 |
| 136 | Carbon-Carbon Bond Activation of Ketones. <i>Trends in Chemistry</i> , 2020 , 2, 183-198 | 14.8 | 55 |
| 135 | Suzuki-Miyaura Coupling of Simple Ketones via Activation of Unstrained Carbon-Carbon Bonds. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5347-5351 | 16.4 | 55 |
| 134 | Rhodium-Catalyzed Regioselective Carboacylation of Olefins: A C-C Bond Activation Approach for Accessing Fused-Ring Systems. <i>Angewandte Chemie</i> , 2012 , 124, 7685-7689 | 3.6 | 54 |
| 133 | Palladium-catalyzed direct α -arylation of ketones with diaryliodonium salts: a stoichiometric heavy metal-free and user-friendly approach. <i>Chemical Science</i> , 2015 , 6, 5491-5498 | 9.4 | 53 |
| 132 | Catalytic Ortho-Acetoxylation of Masked Benzyl Alcohols via an Exo-Directing Mode. <i>Organic Letters</i> , 2015 , 17, 2696-9 | 6.2 | 52 |
| 131 | Concise Synthesis of (-)-Cycloclavine and (-)-5-epi-Cycloclavine via Asymmetric C-C Activation. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9652-9658 | 16.4 | 52 |
| 130 | Rh-catalyzed Reagent-Free Ring Expansion of Cyclobutenones and Benzocyclobutenones. <i>Chemical Science</i> , 2015 , 6, 5440-5445 | 9.4 | 50 |
| 129 | Practical Direct α -Arylation of Cyclopentanones by Palladium/Enamine Cooperative Catalysis. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 2559-63 | 16.4 | 50 |
| 128 | Branched-Selective Intermolecular Ketone α -Alkylation with Unactivated Alkenes via an Enamide Directing Strategy. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13664-13667 | 16.4 | 50 |
| 127 | A diosphenol-based strategy for the total synthesis of (-)-terpestacin. <i>Journal of the American Chemical Society</i> , 2007 , 129, 4540-1 | 16.4 | 50 |
| 126 | Synthesis of Ynones and Recent Application in Transition-Metal-Catalyzed Reactions. <i>Synthesis</i> , 2016 , 48, 161-183 | 2.9 | 48 |
| 125 | Copper(I)-Catalyzed Chemoselective Coupling of Cyclopropanols with Diazoesters: Ring-Opening C-C Bond Formations. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 3945-3950 | 16.4 | 47 |
| 124 | Catalytic Intramolecular Ketone Alkylation with Olefins by Dual Activation. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 15294-8 | 16.4 | 47 |
| 123 | Palladium/Norbornene-Catalyzed Indenone Synthesis from Simple Aryl Iodides: Concise Syntheses of Pauciflorol F and Acredinone A. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 2144-2148 | 16.4 | 47 |

| | | | |
|-----|--|------|----|
| 122 | Efficient Benzimidazolidinone Synthesis via Rhodium-Catalyzed Double-Decarbonylative C-C Activation/Cycloaddition between Isatins and Isocyanates. <i>ACS Catalysis</i> , 2016 , 6, 969-973 | 13.1 | 46 |
| 121 | Development of Thiourea-Based Ligands for the Palladium-Catalyzed Bis(methoxycarbonylation) of Terminal Olefins. <i>European Journal of Organic Chemistry</i> , 2003 , 2003, 4346-4348 | 3.2 | 46 |
| 120 | Catalytic Coupling between Unactivated Aliphatic C-H Bonds and Alkynes via a Metal-Hydride Pathway. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5716-5719 | 16.4 | 45 |
| 119 | Nickel-Catalyzed Chemo- and Enantioselective Coupling between Cyclobutanones and Allenes: Rapid Synthesis of [3.2.2] Bicycles. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 15091-15095 | 16.4 | 45 |
| 118 | Recent advances in the total synthesis of agelastatins. <i>Pure and Applied Chemistry</i> , 2010 , 82, 2231-2246 | 2.1 | 45 |
| 117 | Catalytic C(sp ³) β Arylation of Free Primary Amines with an exo Directing Group Generated In Situ. <i>Angewandte Chemie</i> , 2016 , 128, 9230-9233 | 3.6 | 45 |
| 116 | Modular and regioselective synthesis of all-carbon tetrasubstituted olefins enabled by an alkenyl Catellani reaction. <i>Nature Chemistry</i> , 2019 , 11, 1106-1112 | 17.6 | 45 |
| 115 | Controlled Rh-Catalyzed Mono- and Double-decarbonylation of Alkynyl β -Diones To Form Conjugated Ynones and Disubstituted Alkynes. <i>Organic Letters</i> , 2015 , 17, 5504-7 | 6.2 | 44 |
| 114 | Synthesis and applications of rhodium porphyrin complexes. <i>Chemical Society Reviews</i> , 2018 , 47, 929-981 | 58.5 | 44 |
| 113 | Catalytic activation of unstrained C(aryl)-C(aryl) bonds in 2,2'-biphenols. <i>Nature Chemistry</i> , 2019 , 11, 45-51 | 17.6 | 43 |
| 112 | Kinetic Resolution via Rh-Catalyzed C-C Activation of Cyclobutanones at Room Temperature. <i>Journal of the American Chemical Society</i> , 2019 , 141, 16260-16265 | 16.4 | 41 |
| 111 | Rhodium(I)-Catalyzed Carboacylation/Aromatization Cascade Initiated by Regioselective C-C Activation of Benzocyclobutenones. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2859-2863 | 16.4 | 41 |
| 110 | Ligand-accelerated enantioselective propargylation of aldehydes via allenylzinc reagents. <i>Organic Letters</i> , 2011 , 13, 1900-3 | 6.2 | 40 |
| 109 | Divergent Syntheses of Fused β -Naphthol and Indene Scaffolds by Rhodium-Catalyzed Direct and Decarbonylative Alkyne-Benzocyclobutenone Couplings. <i>Angewandte Chemie</i> , 2014 , 126, 1700-1704 | 3.6 | 39 |
| 108 | Direct β -Alkylation of Ketones and Aldehydes via Pd-Catalyzed Redox Cascade. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6057-6061 | 16.4 | 38 |
| 107 | Two-Carbon Ring Expansion of 1-Indanones via Insertion of Ethylene into Carbon-Carbon Bonds. <i>Journal of the American Chemical Society</i> , 2019 , 141, 13038-13042 | 16.4 | 36 |
| 106 | Intramolecular Acetyl Transfer to Olefins by Catalytic C-C Bond Activation of Unstrained Ketones. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 475-479 | 16.4 | 36 |
| 105 | Efficient Bottom-Up Preparation of Graphene Nanoribbons by Mild Suzuki-Miyaura Polymerization of Simple Triaryl Monomers. <i>Chemistry - A European Journal</i> , 2016 , 22, 9116-20 | 4.8 | 35 |

| | | | |
|-----|--|------|----|
| 104 | Palladium-Catalyzed β (sp ³)-H Arylation of Thiols by a Detachable Protecting/Directing Group. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 12352-12355 | 16.4 | 35 |
| 103 | Cyclic 1,2-diketones as core building blocks: a strategy for the total synthesis of (-)-terpestacin. <i>Chemistry - A European Journal</i> , 2010 , 16, 6265-77 | 4.8 | 35 |
| 102 | Synthesis of Bridged Cyclopentane Derivatives by Catalytic Decarbonylative Cycloaddition of Cyclobutanones and Olefins. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 13867-13871 | 16.4 | 35 |
| 101 | A modular synthetic approach for band-gap engineering of armchair graphene nanoribbons. <i>Nature Communications</i> , 2018 , 9, 1687 | 17.4 | 34 |
| 100 | Branched-Selective Direct α -Alkylation of Cyclic Ketones with Simple Alkenes. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4366-4370 | 16.4 | 33 |
| 99 | Direct Annulation between Aryl Iodides and Epoxides through Palladium/Norbornene Cooperative Catalysis. <i>Angewandte Chemie</i> , 2018 , 130, 1713-1717 | 3.6 | 32 |
| 98 | Distal Alkenyl C-H Functionalization via the Palladium/Norbornene Cooperative Catalysis. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2715-2720 | 16.4 | 31 |
| 97 | Copper-Catalyzed Desaturation of Lactones, Lactams, and Ketones under pH-Neutral Conditions. <i>Journal of the American Chemical Society</i> , 2019 , 141, 14889-14897 | 16.4 | 30 |
| 96 | Model studies with gold: a versatile oxidation and hydrogenation catalyst. <i>Accounts of Chemical Research</i> , 2014 , 47, 750-60 | 24.3 | 29 |
| 95 | Sustainable Electrical Energy Storage through the Ferrocene/Ferrocenium Redox Reaction in Aprotic Electrolyte. <i>Angewandte Chemie</i> , 2014 , 126, 11216-11220 | 3.6 | 29 |
| 94 | Total syntheses of bryostatins: synthesis of two ring-expanded bryostatin analogues and the development of a new-generation strategy to access the C7-C27 fragment. <i>Chemistry - A European Journal</i> , 2011 , 17, 9789-805 | 4.8 | 29 |
| 93 | Structurally Modified Norbornenes: A Key Factor to Modulate Reaction Selectivity in the Palladium/Norbornene Cooperative Catalysis. <i>Journal of the American Chemical Society</i> , 2020 , 142, 17855-17875 | 16.4 | 29 |
| 92 | Platinum-Catalyzed Desaturation of Lactams, Ketones, and Lactones. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16205-16209 | 16.4 | 29 |
| 91 | Modular In Situ Functionalization Strategy: Multicomponent Polymerization by Palladium/Norbornene Cooperative Catalysis. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8592-8596 | 16.4 | 29 |
| 90 | Fused-Ring Formation by an Intramolecular "Cut-and-Sew" Reaction between Cyclobutanones and Alkynes. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2702-2706 | 16.4 | 28 |
| 89 | Sulfenamide-enabled ortho thiolation of aryl iodides via palladium/norbornene cooperative catalysis. <i>Nature Communications</i> , 2019 , 10, 3555 | 17.4 | 28 |
| 88 | Rhodium(I)-Catalyzed Decarbonylative Spirocyclization through C-C Bond Cleavage of Benzocyclobutenones: An Efficient Approach to Functionalized Spirocycles. <i>Angewandte Chemie</i> , 2014 , 126, 1922-1926 | 3.6 | 28 |
| 87 | Ortho C-H Acylation of Aryl Iodides by Palladium/Norbornene Catalysis. <i>Angewandte Chemie</i> , 2015 , 127, 12855-12859 | 3.6 | 27 |

| | | | |
|----|---|------|----|
| 86 | Entry to 1,2,3,4-Tetrasubstituted Arenes through Addressing the "Constraint" in the Palladium/Norbornene Catalysis. <i>Journal of the American Chemical Society</i> , 2020 , 142, 3050-3059 | 16.4 | 26 |
| 85 | Direct Observation of C ₆ H ₅ Cyclopalladation at Tertiary Positions Enabled by an Exo-Directing Group. <i>Organometallics</i> , 2016 , 35, 1057-1059 | 3.8 | 26 |
| 84 | Palladium-catalyzed asymmetric annulation between aryl iodides and racemic epoxides using a chiral norbornene cocatalyst. <i>Organic Chemistry Frontiers</i> , 2018 , 5, 3108-3112 | 5.2 | 26 |
| 83 | Catalytic intermolecular α -C-H alkenylation of β -enamino-ketones with simple alkynes. <i>Chemical Communications</i> , 2014 , 50, 5230-2 | 5.8 | 25 |
| 82 | Cobalt-Catalyzed Intramolecular Alkyne/Benzocyclobutenone Coupling: C-C Bond Cleavage via a Tetrahedral Dicobalt Intermediate. <i>ACS Catalysis</i> , 2018 , 8, 845-849 | 13.1 | 24 |
| 81 | A concise enantioselective synthesis of (-)-ranirestat. <i>Organic Letters</i> , 2010 , 12, 1276-9 | 6.2 | 24 |
| 80 | Redox-Neutral Functionalization of Aryl Boroxines via Palladium/Norbornene Cooperative Catalysis. <i>Chem</i> , 2019 , 5, 929-939 | 16.2 | 23 |
| 79 | Coupling of Sterically Hindered Trisubstituted Olefins and Benzocyclobutenones by C ² C Activation: Total Synthesis and Structural Revision of Cycloinmakiol. <i>Angewandte Chemie</i> , 2014 , 126, 10909-10912 | 3.6 | 23 |
| 78 | Atom-economic and stereoselective syntheses of the ring a and B subunits of the bryostatins. <i>Chemistry - A European Journal</i> , 2011 , 17, 9777-88 | 4.8 | 22 |
| 77 | Catalytic α -Functionalization of Carbonyl Compounds Enabled by β -Desaturation. <i>ACS Catalysis</i> , 2020 , 10, 6058-6070 | 13.1 | 21 |
| 76 | Liquid-phase bottom-up synthesis of graphene nanoribbons. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 29-45 | 5.8 | 20 |
| 75 | Enantioselective Type II Cycloaddition of Alkynes via C-C Activation of Cyclobutanones: Rapid and Asymmetric Construction of [3.3.1] Bridged Bicycles. <i>Journal of the American Chemical Society</i> , 2020 , 142, 13180-13189 | 16.4 | 19 |
| 74 | Concise Synthesis of Functionalized Benzocyclobutenones. <i>Tetrahedron</i> , 2014 , 70, 4135-4146 | 2.4 | 19 |
| 73 | Rhodium(I)-Catalyzed Carboacylation/Aromatization Cascade Initiated by Regioselective C ¹ Activation of Benzocyclobutenones. <i>Angewandte Chemie</i> , 2018 , 130, 2909-2913 | 3.6 | 18 |
| 72 | Direct Palladium-Catalyzed α -Arylation of Lactams. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 3815-3819 | 16.4 | 18 |
| 71 | Catalytic Cage Formation via Controlled Dimerization of Norbornadienes: An Entry to Functionalized HCTDs (Heptacyclo[6.6.0.0(2,6).0(3,13).0(4,11).0(5,9).0(10,14)]tetradecanes). <i>Organic Letters</i> , 2016 , 18, 1104-7 | 6.2 | 18 |
| 70 | Catalytic intramolecular decarbonylative coupling of 3-aminocyclobutenones and alkenes: a unique approach to [3.1.0] bicycles. <i>Tetrahedron</i> , 2015 , 71, 4478-4483 | 2.4 | 18 |
| 69 | Boron insertion into alkyl ether bonds via zinc/nickel tandem catalysis. <i>Science</i> , 2021 , 372, 175-182 | 33.3 | 18 |

| | | | |
|----|--|------|----|
| 68 | A Hydrazone-Based exo-Directing-Group Strategy for $\text{C}\equiv\text{N}$ Oxidation of Aliphatic Amines. <i>Angewandte Chemie</i> , 2016 , 128, 5385-5389 | 3.6 | 18 |
| 67 | Nickel-Catalyzed Chemo- and Enantioselective Coupling between Cyclobutanones and Allenes: Rapid Synthesis of [3.2.2] Bicycles. <i>Angewandte Chemie</i> , 2016 , 128, 15315-15319 | 3.6 | 17 |
| 66 | Catalytic Intramolecular Ketone Alkylation with Olefins by Dual Activation. <i>Angewandte Chemie</i> , 2015 , 127, 15509-15513 | 3.6 | 17 |
| 65 | Divergent Total Syntheses of Enmein-Type Natural Products: (-)-Enmein, (-)-Isodocarpin, and (-)-Sculponin R. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 6333-6336 | 16.4 | 16 |
| 64 | Ruthenium-Catalyzed Reductive Cleavage of Unstrained Aryl-Aryl Bonds: Reaction Development and Mechanistic Study. <i>Journal of the American Chemical Society</i> , 2019 , 141, 18630-18640 | 16.4 | 16 |
| 63 | Practical Direct α -Arylation of Cyclopentanones by Palladium/Enamine Cooperative Catalysis. <i>Angewandte Chemie</i> , 2016 , 128, 2605-2609 | 3.6 | 15 |
| 62 | Effect of Ring Functionalization on the Reaction Temperature of Benzocyclobutene Thermoset Polymers. <i>Macromolecules</i> , 2016 , 49, 3706-3715 | 5.5 | 15 |
| 61 | Direct Vicinal Difunctionalization of Thiophenes Enabled by the Palladium/Norbornene Cooperative Catalysis. <i>Journal of the American Chemical Society</i> , 2019 , 141, 18958-18963 | 16.4 | 15 |
| 60 | Platinum-Catalyzed Desaturation of Lactams, Ketones, and Lactones. <i>Angewandte Chemie</i> , 2018 , 130, 16437-16441 | 3.6 | 15 |
| 59 | Synthetic Study of Phainanoids. Highly Diastereoselective Construction of the 4,5-Spirocycle via Palladium-Catalyzed Intramolecular Alkenylation. <i>Organic Letters</i> , 2017 , 19, 3017-3020 | 6.2 | 14 |
| 58 | Asymmetric Total Syntheses of Di- and Sesquiterpenoids by Catalytic C-C Activation of Cyclopentanones. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 7848-7856 | 16.4 | 14 |
| 57 | Ketone-Based Transition-Metal-Catalyzed Carbon-Carbon and Carbon-Hydrogen Bond Activation: Exploratory Studies. <i>Synlett</i> , 2012 , 24, 1-5 | 2.2 | 14 |
| 56 | Synthesis of indoles, indolines, and carbazoles via palladium-catalyzed $\text{C}\equiv\text{N}$ activation. <i>Green Synthesis and Catalysis</i> , 2021 , 2, 216-227 | 9.3 | 14 |
| 55 | Palladium/Norbornene-Catalyzed Indenone Synthesis from Simple Aryl Iodides: Concise Syntheses of Pauciflorol F and Acredinone A. <i>Angewandte Chemie</i> , 2019 , 131, 2166-2170 | 3.6 | 14 |
| 54 | Pd-Catalyzed Intramolecular α -Allylic Alkylation of Ketones with Alkynes: Rapid and Stereodivergent Construction of [3.2.1] Bicycles. <i>ACS Catalysis</i> , 2019 , 9, 5515-5521 | 13.1 | 13 |
| 53 | Divergent Total Syntheses of Enmein-Type Natural Products: (R)-Enmein, (R)-Isodocarpin, and (R)-Sculponin R. <i>Angewandte Chemie</i> , 2018 , 130, 6441-6444 | 3.6 | 13 |
| 52 | Transition-Metal-Catalyzed Ketone α -Alkylation and Alkenylation with Simple Alkenes and Alkynes through a Dual Activation Strategy. <i>Synlett</i> , 2019 , 30, 674-684 | 2.2 | 13 |
| 51 | Deacylation-aided $\text{C}\equiv\text{N}$ alkylative annulation through $\text{C}\equiv\text{O}$ cleavage of unstrained ketones. <i>Nature Catalysis</i> , 2021 , 4, 703-710 | 36.5 | 13 |

| | | | |
|----|---|------|----|
| 50 | Palladium-catalyzed asymmetric allylic alkylation of electron-deficient pyrroles with meso electrophiles. <i>Organic Letters</i> , 2012 , 14, 2254-7 | 6.2 | 12 |
| 49 | Total synthesis of bryostatins: the development of methodology for the atom-economic and stereoselective synthesis of the ring C subunit. <i>Chemistry - A European Journal</i> , 2011 , 17, 9762-76 | 4.8 | 12 |
| 48 | Synthesis of Bridged Cyclopentane Derivatives by Catalytic Decarbonylative Cycloaddition of Cyclobutanones and Olefins. <i>Angewandte Chemie</i> , 2016 , 128, 14071-14075 | 3.6 | 12 |
| 47 | Catalytic Dehydrogenative Cyclization of <i>o</i> -Teraryls under pH-Neutral and Oxidant-Free Conditions. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15249-15253 | 16.4 | 11 |
| 46 | Total Synthesis of Penicibilaenes via C-C Activation-Enabled Skeleton Deconstruction and Desaturation Relay-Mediated C-H Functionalization. <i>Journal of the American Chemical Society</i> , 2021 , 143, 8272-8277 | 16.4 | 10 |
| 45 | Modular Entry to Functionalized Tetrahydrobenzo[<i>b</i>]azepines via the Palladium/Norbornene Cooperative Catalysis Enabled by a C7-Modified Norbornene. <i>Journal of the American Chemical Society</i> , 2021 , 143, 9991-10004 | 16.4 | 10 |
| 44 | Distal-Bond-Selective C=C Activation of Ring-Fused Cyclopentanones: An Efficient Access to Spiroindanones. <i>Angewandte Chemie</i> , 2017 , 129, 2416-2420 | 3.6 | 9 |
| 43 | Direct β -Alkenylation of Ketones via Pd-Catalyzed Redox Cascade. <i>Organic Letters</i> , 2019 , 21, 3377-3381 | 6.2 | 9 |
| 42 | Tunable Ether Production via Coupling of Aldehydes or Aldehyde/Alcohol over Hydrogen-Modified Gold Catalysts at Low Temperatures. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 2512-6 | 6.4 | 9 |
| 41 | Intramolecular β -Alkenylation of Cyclohexanones via Pd-Catalyzed Desaturation-Mediated C(sp)-H/Alkyne Coupling. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8962-8971 | 16.4 | 9 |
| 40 | Intramolecular Acetyl Transfer to Olefins by Catalytic C=C Bond Activation of Unstrained Ketones. <i>Angewandte Chemie</i> , 2018 , 130, 484-488 | 3.6 | 9 |
| 39 | Three-Step Synthesis of a Less-Aggregated Water-Soluble Poly(<i>p</i> -phenylene ethynylene) with Meta Side Chains via Palladium/Norbornene Cooperative Catalysis. <i>Macromolecules</i> , 2019 , 52, 1663-1670 | 5.5 | 8 |
| 38 | Unexpected γ -Heck Reaction under the Catellani Conditions. <i>Organic Letters</i> , 2020 , 22, 3770-3774 | 6.2 | 8 |
| 37 | Palladium-Catalyzed β (sp ³) β Arylation of Thiols by a Detachable Protecting/Directing Group. <i>Angewandte Chemie</i> , 2018 , 130, 12532-12535 | 3.6 | 8 |
| 36 | Alkylation of Rhodium Porphyrins Using Ammonium and Quinolinium Salts. <i>Organometallics</i> , 2014 , 33, 3757-3767 | 3.8 | 8 |
| 35 | Compatibility Score for Rational Electrophile Selection in Pd/NBE Cooperative Catalysis. <i>Chem</i> , 2020 , 6, 2810-2825 | 16.2 | 8 |
| 34 | FMPHos: Expanding the Catalytic Capacity of Small-Bite-Angle Bisphosphine Ligands in Regioselective Alkene Hydrofunctionalizations. <i>ACS Catalysis</i> , 2020 , 10, 14349-14358 | 13.1 | 8 |
| 33 | Deconstructive Asymmetric Total Synthesis of Morphine-Family Alkaloid (-)-Thebainone A. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 13057-13064 | 16.4 | 8 |

| | | | |
|----|--|------|---|
| 32 | Aza-Matteson Reactions via Controlled Mono- and Double-Methylene Insertions into Nitrogen-Boron Bonds. <i>Journal of the American Chemical Society</i> , 2021 , 143, 14422-14427 | 16.4 | 8 |
| 31 | Site-Specific and Degree-Controlled Alkyl Deuteration via Cu-Catalyzed Redox-Neutral Deacylation. <i>Journal of the American Chemical Society</i> , | 16.4 | 8 |
| 30 | Copper(I)-Catalyzed Chemoselective Coupling of Cyclopropanols with Diazoesters: Ring-Opening C-C Bond Formations. <i>Angewandte Chemie</i> , 2017 , 129, 4003-4008 | 3.6 | 7 |
| 29 | Branched-Selective Direct α -Alkylation of Cyclic Ketones with Simple Alkenes. <i>Angewandte Chemie</i> , 2019 , 131, 4410-4414 | 3.6 | 7 |
| 28 | Water-Accelerated Nickel-Catalyzed α -Crotylation of Simple Ketones with 1,3-Butadiene under pH and Redox-Neutral Conditions. <i>ACS Catalysis</i> , 2020 , 10, 4238-4243 | 13.1 | 7 |
| 27 | Palladium-catalyzed redox cascade for direct α -arylation of ketones. <i>Tetrahedron</i> , 2018 , 74, 3253-3265 | 2.4 | 7 |
| 26 | Synthesis of C3,C4-Disubstituted Indoles via the Palladium/Norbornene-Catalyzed α -Amination/-Heck Cyclization. <i>Organic Letters</i> , 2021 , 23, 3755-3760 | 6.2 | 7 |
| 25 | Intermolecular [5+2] Annulation between 1-Indanones and Internal Alkynes by Rhodium-Catalyzed C-C Activation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20476-20482 | 16.4 | 7 |
| 24 | Asymmetric Synthesis of 1-Tetralones Bearing A Remote Quaternary Stereocenter through Rh-Catalyzed C-C Activation of Cyclopentanones. <i>Bulletin of the Chemical Society of Japan</i> , 2020 , 93, 1213-1217 ⁶ | 5.1 | 6 |
| 23 | Fused-Ring Formation by an Intramolecular α -Cut-and-Sew α Reaction between Cyclobutanones and Alkynes. <i>Angewandte Chemie</i> , 2018 , 130, 2732-2736 | 3.6 | 6 |
| 22 | Olefination via Cu-Mediated Dehydroacylation of Unstrained Ketones. <i>Journal of the American Chemical Society</i> , 2021 , 143, 20042-20048 | 16.4 | 6 |
| 21 | Carbonyl 1,2-transposition through triflate-mediated α -amination. <i>Science</i> , 2021 , 374, 734-740 | 33.3 | 5 |
| 20 | Bidirectional Total Synthesis of Phainanoid A via Strategic Use of Ketones. <i>Journal of the American Chemical Society</i> , 2021 , 143, 19311-19316 | 16.4 | 5 |
| 19 | Modular In Situ Functionalization Strategy: Multicomponent Polymerization by Palladium/Norbornene Cooperative Catalysis. <i>Angewandte Chemie</i> , 2018 , 130, 8728-8732 | 3.6 | 5 |
| 18 | Asymmetric Total Syntheses of Di- and Sesquiterpenoids by Catalytic C-C Activation of Cyclopentanones. <i>Angewandte Chemie</i> , 2020 , 132, 7922-7930 | 3.6 | 4 |
| 17 | Multicomponent Polymerization for α -Conjugated Polymers. <i>Macromolecular Rapid Communications</i> , 2021 , 42, e2000646 | 4.8 | 4 |
| 16 | Platinum-Catalyzed α -Desaturation of Cyclic Ketones through Direct Metal-Enolate Formation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 7956-7961 | 16.4 | 4 |
| 15 | Development and Mechanistic Studies of the Iridium-Catalyzed C-H Alkenylation of Enamides with Vinyl Acetates: A Versatile Approach for Ketone Functionalization. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20926-20934 | 16.4 | 4 |

| | | | |
|----|--|------|------|
| 14 | Orthogonal cross-coupling through intermolecular metathesis of unstrained C(aryl)-C(aryl) single bonds. <i>Nature Chemistry</i> , 2021 , 13, 836-842 | 17.6 | 4 |
| 13 | Direct Palladium-Catalyzed β Arylation of Lactams. <i>Angewandte Chemie</i> , 2018 , 130, 3877-3881 | 3.6 | 3 |
| 12 | Redox-Neutral Vicinal Difunctionalization of Five-Membered Heteroarenes with Dual Electrophiles. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 26184-26191 | 16.4 | 3 |
| 11 | Catalytic Dehydrogenative Cyclization of <i>o</i> -Teraryls under pH-Neutral and Oxidant-Free Conditions. <i>Angewandte Chemie</i> , 2020 , 132, 15361-15365 | 3.6 | 2 |
| 10 | Ni(0)-Catalyzed β Allylic Alkylation of Regular Ketones with 1,3-Dienes under pH and Redox-neutral Conditions | | 2 |
| 9 | Intermolecular [5+2] Annulation between 1-Indanones and Internal Alkynes by Rhodium-Catalyzed C \equiv C Activation. <i>Angewandte Chemie</i> , 2021 , 133, 20639-20645 | 3.6 | 2 |
| 8 | Intramolecular One-Carbon Homologation of Unstrained Ketones via C-C Activation-Enabled 1,1-Insertion of Alkenes.. <i>Organic Letters</i> , 2022 , | 6.2 | 2 |
| 7 | Rhodium-Catalyzed (4+1) Cycloaddition between Benzocyclobutenones and Styrene-Type Alkenes.. <i>Angewandte Chemie - International Edition</i> , 2022 , | 16.4 | 2 |
| 6 | Platinum-Catalyzed β Desaturation of Cyclic Ketones through Direct Metal β Enolate Formation. <i>Angewandte Chemie</i> , 2021 , 133, 8035-8040 | 3.6 | 1 |
| 5 | Development and Mechanistic Studies of the Iridium-Catalyzed C \equiv C Alkenylation of Enamides with Vinyl Acetates: A Versatile Approach for Ketone Functionalization. <i>Angewandte Chemie</i> , 2021 , 133, 21094-21102 | 3.6 | 1 |
| 4 | Deconstructive Functionalization of Ketones via an LMCT-Promoted C \equiv C Cleavage. <i>Chem</i> , 2020 , 6, 10-11 | 16.2 | 0 |
| 3 | Deconstructive Asymmetric Total Synthesis of Morphine-Family Alkaloid (β -Thebainone A. <i>Angewandte Chemie</i> , 2021 , 133, 13167-13174 | 3.6 | 0 |
| 2 | Chloro(1,5-Cyclooctadiene)Rhodium(I) Dimer | | 1-13 |
| 1 | Transfer hydroarylation of ketones using directing-group-free, unstrained alcohols. <i>Chem</i> , 2021 , 7, 841-842 | 16.2 | 0 |