

# Yonggui Robin Chi

## List of Publications by Citations

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186  
papers

8,091  
citations

52  
h-index

84  
g-index

241  
ext. papers

9,496  
ext. citations

9.3  
avg, IF

6.49  
L-index

#	Paper	IF	Citations
186	A family of metal-organic frameworks exhibiting size-selective catalysis with encapsulated noble-metal nanoparticles. <i>Advanced Materials</i> , <b>2014</b> , 26, 4056-60	24	330
185	Oxidative $\alpha$ -addition of enals to trifluoromethyl ketones: enantioselectivity control via Lewis acid/N-heterocyclic carbene cooperative catalysis. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 8810-3	16.4	310
184	One-pot multi-component asymmetric cascade reactions catalyzed by soluble star polymers with highly branched non-interpenetrating catalytic cores. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 6322-3	16.4	253
183	Diphenylprolinol methyl ether: a highly enantioselective catalyst for Michael addition of aldehydes to simple enones. <i>Organic Letters</i> , <b>2005</b> , 7, 4253-6	6.2	238
182	$\alpha$ -Carbon activation of saturated carboxylic esters through N-heterocyclic carbene organocatalysis. <i>Nature Chemistry</i> , <b>2013</b> , 5, 835-9	17.6	222
181	N-heterocyclic carbene-catalyzed [3+4] cycloaddition and kinetic resolution of azomethine imines. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 1214-7	16.4	197
180	Enantioselective organocatalytic Michael additions of aldehydes to enones with imidazolidinones: cocatalyst effects and evidence for an enamine intermediate. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 11598-9	16.4	189
179	NHC organocatalytic formal LUMO activation of $\alpha,\beta$ -unsaturated esters for reaction with enamides. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 8592-6	16.4	176
178	Highly enantioselective addition of enals to isatin-derived ketimines catalyzed by N-heterocyclic carbenes: synthesis of spirocyclic lactams. <i>Organic Letters</i> , <b>2012</b> , 14, 5412-5	6.2	175
177	Enantioselective activation of stable carboxylate esters as enolate equivalents via N-heterocyclic carbene catalysts. <i>Organic Letters</i> , <b>2012</b> , 14, 2154-7	6.2	174
176	Enantioselective organocatalytic aminomethylation of aldehydes: a role for ionic interactions and efficient access to $\beta$ -amino acids. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 6804-5	16.4	160
175	Enantioselective organocatalytic Michael addition of aldehydes to nitroethylene: efficient access to $\gamma$ -amino acids. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 5608-9	16.4	152
174	Enantioselective oxidative cross-dehydrogenative coupling of tertiary amines to aldehydes. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 3649-52	16.4	143
173	Organocatalytic enantioselective $\alpha$ -aminoalkylation of unsaturated ester: access to pipercolic acid derivatives. <i>Organic Letters</i> , <b>2013</b> , 15, 5028-31	6.2	135
172	Functionalization of benzylic C(sp <sup>3</sup> )-H bonds of heteroaryl aldehydes through N-heterocyclic carbene organocatalysis. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 11134-7	16.4	134
171	Stereospecific synthesis of conformationally constrained $\gamma$ -amino acids: new foldamer building blocks that support helical secondary structure. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 16018-20	16.4	126
170	Direct $\alpha$ -activation of saturated aldehydes to formal Michael acceptors through oxidative NHC catalysis. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 8588-91	16.4	123

169	Enantioselective Diels-Alder reactions of enals and alkylidene diketones catalyzed by N-heterocyclic carbenes. <i>Organic Letters</i> , <b>2011</b> , 13, 4708-11	6.2	116
168	N-heterocyclic carbene-catalyzed radical reactions for highly enantioselective $\beta$ -hydroxylation of enals. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 2416-9	16.4	114
167	Enantioselective Stetter reactions of enals and modified chalcones catalyzed by N-heterocyclic carbenes. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 11782-5	16.4	102
166	Controlled $\beta$ -protonation and [4+2] cycloaddition of enals and chalcones via N-heterocyclic carbene/acid catalysis: toward substrate independent reaction control. <i>Chemical Communications</i> , <b>2013</b> , 49, 261-3	5.8	97
165	Direct $\beta$ -functionalization of simple aldehydes via oxidative N-heterocyclic carbene catalysis. <i>Organic Letters</i> , <b>2013</b> , 15, 50-3	6.2	95
164	Catalytic activation of carbohydrates as formaldehyde equivalents for Stetter reaction with enones. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 8113-6	16.4	93
163	N-Heterocyclic carbene-catalyzed chemoselective cross-aza-benzoin reaction of enals with isatin-derived ketimines: access to chiral quaternary aminooxindoles. <i>Organic Letters</i> , <b>2014</b> , 16, 3272-5	6.2	92
162	Aminomethylation of enals through carbene and acid cooperative catalysis: concise access to $(\beta)$ -amino acids. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 5161-5	16.4	90
161	Access to spirocyclic oxindoles via N-heterocyclic carbene-catalyzed reactions of enals and oxindole-derived $\beta$ -unsaturated imines. <i>Organic Letters</i> , <b>2012</b> , 14, 2382-5	6.2	90
160	Carbon-carbon bond activation of cyclobutenones enabled by the addition of chiral organocatalyst to ketone. <i>Nature Communications</i> , <b>2015</b> , 6, 6207	17.4	89
159	Metal and carbene organocatalytic relay activation of alkynes for stereoselective reactions. <i>Nature Communications</i> , <b>2014</b> , 5, 3982	17.4	87
158	Organocatalytic activation of alkylacetic esters as enolate precursors to react with $\beta$ -unsaturated imines. <i>Organic Letters</i> , <b>2013</b> , 15, 4956-9	6.2	85
157	Access to oxoquinoline heterocycles by N-heterocyclic carbene catalyzed ester activation for selective reaction with an enone. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 6506-10	16.4	83
156	A highly regio- and stereoselective cascade annulation of enals and benzodi(enone)s catalyzed by N-heterocyclic carbenes. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 1910-3	16.4	83
155	Benzene construction via organocatalytic formal [3+3] cycloaddition reaction. <i>Nature Communications</i> , <b>2014</b> , 5, 5027	17.4	81
154	Enantioselective sulfonation of enones with sulfonyl imines by cooperative N-heterocyclic-carbene/thiourea/tertiary-amine multicatalysis. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 12354-8	16.4	81
153	Enantioselective intramolecular formal [2 + 4] annulation of acrylates and $\beta$ -unsaturated imines catalyzed by amino acid derived phosphines. <i>Organic Letters</i> , <b>2012</b> , 14, 3226-9	6.2	78
152	Access to P-Stereogenic Phosphinates via N-Heterocyclic Carbene-Catalyzed Desymmetrization of Bisphenols. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 7524-7	16.4	77

- 151 N-Heterocyclic Carbene Organocatalysis: Activation Modes and Typical Reactive Intermediates. *Chinese Journal of Chemistry*, **2020**, 38, 1167-1202 4.9 76
- 150 N-Heterocyclic Carbene-Catalyzed  $\pi$ -Carbon LUMO Activation of Unsaturated Aldehydes. *Journal of the American Chemical Society*, **2015**, 137, 5658-61 16.4 75
- 149 Asymmetric access to the smallest enolate intermediate via organocatalytic activation of acetic ester. *Organic Letters*, **2013**, 15, 5822-5 6.2 74
- 148 Enantioselective Nucleophilic  $\pi$ -Carbon-Atom Amination of Enals: Carbene-Catalyzed Formal [3+2] Reactions. *Angewandte Chemie - International Edition*, **2016**, 55, 12280-4 16.4 73
- 147 Formal Diels-Alder reactions of chalcones and formylcyclopropanes catalyzed by chiral N-heterocyclic carbenes. *Organic Letters*, **2011**, 13, 5366-9 6.2 71
- 146 Practical synthesis of enantiomerically pure beta $\alpha$ -amino acids via proline-catalyzed diastereoselective aminomethylation of aldehydes. *Journal of the American Chemical Society*, **2007**, 129, 6050-5 16.4 69
- 145  $\pi$ -Functionalization of carboxylic anhydrides with  $\pi$ -alkyl substituents through carbene organocatalysis. *Angewandte Chemie - International Edition*, **2014**, 53, 13506-9 16.4 68
- 144 Polyhalides as Efficient and Mild Oxidants for Oxidative Carbene Organocatalysis by Radical Processes. *Angewandte Chemie - International Edition*, **2017**, 56, 2942-2946 16.4 63
- 143 cis-Enals in N-heterocyclic carbene-catalyzed reactions: distinct stereoselectivity and reactivity. *Chemical Science*, **2013**, 4, 2613 9.4 62
- 142 N-heterocyclic carbene organocatalytic reductive  $\pi$ -coupling reactions of nitroalkenes via radical intermediates. *Organic Letters*, **2014**, 16, 5678-81 6.2 61
- 141 Addition of indoles to oxyallyl cations for facile access to  $\pi$ -indole carbonyl compounds. *Organic Letters*, **2012**, 14, 1922-5 6.2 61
- 140 Carbene-Catalyzed Dynamic Kinetic Resolution of Carboxylic Esters. *Journal of the American Chemical Society*, **2016**, 138, 7212-5 16.4 61
- 139 Facile access to chiral ketones through metal-free oxidative C-C bond cleavage of aldehydes by O $_2$ . *Angewandte Chemie - International Edition*, **2012**, 51, 1911-4 16.4 60
- 138 NHC Organocatalytic Formal LUMO Activation of  $\pi$ -Unsaturated Esters for Reaction with Enamides. *Angewandte Chemie*, **2013**, 125, 8754-8758 3.6 58
- 137 Enantiomeric glycosylated cationic block co-beta-peptides eradicate *Staphylococcus aureus* biofilms and antibiotic-tolerant persisters. *Nature Communications*, **2019**, 10, 4792 17.4 53
- 136 N-Heterocyclic Carbene Catalyzed Radical Coupling of Aldehydes with Redox-Active Esters. *Angewandte Chemie - International Edition*, **2019**, 58, 8628-8630 16.4 53
- 135 Cycloaddition of cyclobutenone and azomethine imine enabled by chiral isothiourea organic catalysts. *Chemical Science*, **2015**, 6, 6008-6012 9.4 52
- 134 Carbene-catalysed reductive coupling of nitrobenzyl bromides and activated ketones or imines via single-electron-transfer process. *Nature Communications*, **2016**, 7, 12933 17.4 52

133	Control of aldol reaction pathways of enolizable aldehydes in an aqueous environment with a hyperbranched polymeric catalyst. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 17287-9	16.4	52
132	Sulfinate and Carbene Co-catalyzed Rauhut-Currier Reaction for Enantioselective Access to Azepino[1,2-a]indoles. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 477-481	16.4	45
131	Construction of Fused Pyrrolidines and $\beta$ -Lactones by Carbene-Catalyzed C-N, C-C, and C-O Bond Formations. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 4201-4205	16.4	44
130	Site-Selective Catalysis of a Multifunctional Linear Molecule: The Steric Hindrance of Metal-Organic Framework Channels. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800643	24	42
129	Functionalization of Benzylic C(sp <sup>3</sup> )H Bonds of Heteroaryl Aldehydes through N-Heterocyclic Carbene Organocatalysis. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 11340-11343	3.6	42
128	Direct $\beta$ -Activation of Saturated Aldehydes to Formal Michael Acceptors through Oxidative NHC Catalysis. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 8750-8753	3.6	41
127	A reaction mode of carbene-catalysed aryl aldehyde activation and induced phenol OH functionalization. <i>Nature Communications</i> , <b>2017</b> , 8, 15598	17.4	40
126	Gold and Carbene Relay Catalytic Enantioselective Cycloisomerization/Cyclization Reactions of Ynamides and Enals. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 1557-1561	16.4	40
125	Polarity-directed one-pot asymmetric cascade reactions mediated by two catalysts in an aqueous buffer. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 2393-6	16.4	39
124	Green oxidation of indoles using halide catalysis. <i>Nature Communications</i> , <b>2019</b> , 10, 4754	17.4	38
123	Enantioselective Stetter Reactions of Enals and Modified Chalcones Catalyzed by N-Heterocyclic Carbenes. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 11986-11989	3.6	38
122	Nucleophilic $\beta$ -Carbon Activation of Propionic Acid as a 3-Carbon Synthon by Carbene Organocatalysis. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 9360-3	4.8	36
121	A rapid <sup>1</sup> H NMR assay for enantiomeric excess of alpha-substituted aldehydes. <i>Organic Letters</i> , <b>2005</b> , 7, 3469-72	6.2	35
120	Access to All-Carbon Spirocycles through a Carbene and Thiourea Cocatalytic Desymmetrization Cascade Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 1784-1788	16.4	35
119	A Glycosylated Cationic Block Poly( $\beta$ -peptide) Reverses Intrinsic Antibiotic Resistance in All ESKAPE Gram-Negative Bacteria. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 6819-6826	16.4	35
118	Carbene-Catalyzed Desymmetrization and Direct Construction of Arenes with All-Carbon Quaternary Chiral Center. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 15778-15782	16.4	33
117	NHC-catalyzed reactions of enals with water as a solvent. <i>Green Chemistry</i> , <b>2013</b> , 15, 1505	10	33
116	Prediction of NHC-catalyzed chemoselective functionalizations of carbonyl compounds: a general mechanistic map. <i>Chemical Science</i> , <b>2020</b> , 11, 7214-7225	9.4	32

115	Oxidative N-Heterocyclic Carbene-Catalyzed $\beta$ -Carbon Addition of Enals to Imines: Mechanistic Studies and Access to Antimicrobial Compounds. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 9984-7	4.8	30
114	Addition of N-Heterocyclic Carbene Catalyst to Aryl Esters Induces Remote C-Si Bond Activation and Benzylic Carbon Functionalization. <i>Organic Letters</i> , <b>2018</b> , 20, 333-336	6.2	29
113	Carbene-catalyzed LUMO activation of alkyne esters for access to functional pyridines. <i>Chemical Communications</i> , <b>2017</b> , 53, 13359-13362	5.8	29
112	A Highly Regio- and Stereoselective Cascade Annulation of Enals and Benzodi(enone)s Catalyzed by N-Heterocyclic Carbenes. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 1950-1953	3.6	29
111	Aminomethylation of Enals through Carbene and Acid Cooperative Catalysis: Concise Access to $\alpha$ -Amino Acids. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 5250-5254	3.6	28
110	Rapid access to bicyclic $\beta$ -lactones via carbene-catalyzed activation and cascade reaction of unsaturated carboxylic esters. <i>Organic Chemistry Frontiers</i> , <b>2016</b> , 3, 145-149	5.2	27
109	NHC-Catalyzed Ester Activation: Access to Sterically Congested Spirocyclic Oxindoles via Reaction of $\beta$ -Aryl Esters and Unsaturated Imines. <i>Synlett</i> , <b>2013</b> , 24, 1197-1200	2.2	27
108	Direct Activation of $\beta$ -Carbons of Saturated Carboxylic Esters as Electrophilic Carbons via Oxidative Carbene Catalysis. <i>Organic Letters</i> , <b>2018</b> , 20, 260-263	6.2	27
107	Carbene-Catalyzed Reductive Coupling of Nitrobenzyl Bromide and Nitroalkene via the Single-Electron-Transfer (SET) Process and Formal 1,4-Addition. <i>Organic Letters</i> , <b>2017</b> , 19, 632-635	6.2	26
106	Sulfoxidation of alkenes and alkynes with NFSI as a radical initiator and selective oxidant. <i>Chemical Communications</i> , <b>2016</b> , 53, 184-187	5.8	26
105	Carbene and Acid Cooperative Catalytic Reactions of Aldehydes and o-Hydroxybenzhydryl Amines for Highly Enantioselective Access to Dihydrocoumarins. <i>Organic Letters</i> , <b>2017</b> , 19, 5892-5895	6.2	26
104	Enantioselective Sulfonation of Enones with Sulfonyl Imines by Cooperative N-Heterocyclic-Carbene/Thiourea/Tertiary-Amine Multicatalysis. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 12580-12584	3.6	26
103	N-Heterocyclic Carbene-Catalyzed Atroposelective Annulation for Access to Thiazine Derivatives with C-N Axial Chirality. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 9362-9367	16.4	26
102	Carbene-Catalyzed Alkylation of Carboxylic Esters via Direct Photoexcitation of Acyl Azolium Intermediates. <i>ACS Catalysis</i> , <b>2021</b> , 11, 2925-2934	13.1	25
101	Catalytic asymmetric acetalization of carboxylic acids for access to chiral phthalidyl ester prodrugs. <i>Nature Communications</i> , <b>2019</b> , 10, 1675	17.4	24
100	Carbene-catalyzed desymmetrization of 1,3-diols: access to optically enriched tertiary alkyl chlorides. <i>Chemical Communications</i> , <b>2016</b> , 52, 8313-6	5.8	24
99	Enantioselective Nucleophilic $\beta$ -Carbon-Atom Amination of Enals: Carbene-Catalyzed Formal [3+2] Reactions. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 12468-12472	3.6	24
98	Carbene-Catalyzed Formal [5 + 5] Reaction for Coumarin Construction and Total Synthesis of Defucogilvocarcins. <i>Organic Letters</i> , <b>2017</b> , 19, 6188-6191	6.2	23



97	Carbene-Catalyzed Enantioselective Addition of Thioamides to Bromoenals for Access to Thiazinone Heterocycles. <i>Organic Letters</i> , <b>2019</b> , 21, 9493-9496	6.2	23
96	Polyhalides as Efficient and Mild Oxidants for Oxidative Carbene Organocatalysis by Radical Processes. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 2988-2992	3.6	22
95	Access to pyridines via DMAP-catalyzed activation of $\alpha$ -chloro acetic ester to react with unsaturated imines. <i>Organic Chemistry Frontiers</i> , <b>2014</b> , 1, 148-150	5.2	22
94	Chiral Nitroarenes as Enantioselective Single-Electron-Transfer Oxidants for Carbene-Catalyzed Radical Reactions. <i>Organic Letters</i> , <b>2019</b> , 21, 7440-7444	6.2	21
93	Carbene-Catalyzed Indole 3-Methyl C(sp)-H Bond Functionalization. <i>Journal of Organic Chemistry</i> , <b>2017</b> , 82, 13342-13347	4.2	21
92	Synthesis of 4,4-disubstituted 2-aminocyclopentanecarboxylic acid derivatives and their incorporation into 12-helical beta-peptides. <i>Organic Letters</i> , <b>2004</b> , 6, 4411-4	6.2	21
91	Engineering channels of metal-organic frameworks to enhance catalytic selectivity. <i>Chemical Communications</i> , <b>2019</b> , 55, 11770-11773	5.8	20
90	NHC-Catalyzed Chemoselective Reactions of Enals and Aminobenzaldehydes for Access to Chiral Dihydroquinolines. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 18410-18413	16.4	20
89	Facile Access to Chiral Ketones through Metal-Free Oxidative C-C Bond Cleavage of Aldehydes by O <sub>2</sub> . <i>Angewandte Chemie</i> , <b>2012</b> , 124, 1947-1950	3.6	20
88	Brønsted acid catalyzed $\alpha$ -alkylation of aldehydes with diaryl methyl alcohols. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 12272-5	4.8	19
87	Enantioselective access to multi-cyclic $\beta$ -amino phosphonates via carbene-catalyzed cycloaddition reactions between enals and six-membered cyclic imines. <i>Organic Chemistry Frontiers</i> , <b>2018</b> , 5, 2992-2996	5.2	19
86	NHC-Catalyzed Cascade Reaction between $\beta$ -Methyl Enals and Dienones for Quick Construction of Complex Multicyclic Lactones. <i>Organic Letters</i> , <b>2020</b> , 22, 2595-2599	6.2	18
85	Enantioselective Indole N $\alpha$ Functionalization Enabled by Addition of Carbene Catalyst to Indole Aldehyde at Remote Site. <i>ACS Catalysis</i> , <b>2019</b> , 9, 10971-10976	13.1	18
84	Access to Oxoquinoline Heterocycles by N-Heterocyclic Carbene Catalyzed Ester Activation for Selective Reaction with an Enone. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 6624-6628	3.6	18
83	Carbene-Catalyzed Enantioselective Aromatic N-Nucleophilic Addition of Heteroarenes to Ketones. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 442-448	16.4	18
82	Carbene-Catalyzed Asymmetric Construction of Atropisomers. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 26026-26037	16.4	18
81	Carbene-Catalyzed $\beta$ -Carbon Amination of Chloroaldehydes for Enantioselective Access to Dihydroquinoxaline Derivatives. <i>Organic Letters</i> , <b>2019</b> , 21, 4340-4344	6.2	17
80	Kinetic Resolution of 1,2-Diols via NHC-Catalyzed Site-Selective Esterification. <i>Organic Letters</i> , <b>2018</b> , 20, 3447-3450	6.2	17

79	Asymmetric Wacker-Type Oxyallenylation and Azaallenylation of Cyclic Alkenes. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 2246-2250	16.4	17
78	Enantio- and Diastereoselective Synthesis of Chromeno[4,3]pyrrole Derivatives Bearing Tetrasubstituted Chirality Centers through Carbene Catalyzed Cascade Reactions. <i>Organic Letters</i> , <b>2020</b> , 22, 326-330	6.2	17
77	Carbene-Catalyzed Enantioselective Addition of Benzylic Carbon to Unsaturated Acyl Azolium for Rapid Synthesis of Pyrrolo[3,2-c]quinolines. <i>ACS Catalysis</i> , <b>2018</b> , 8, 9859-9864	13.1	16
76	Carbene-catalyzed enal $\beta$ -carbon addition to $\beta$ -ketophosphonates for enantioselective access to bioactive 2-pyranylphosphonates. <i>Chemical Communications</i> , <b>2018</b> , 54, 6040-6043	5.8	16
75	Synthesis of indanes via carbene-catalyzed single-electron-transfer processes and cascade reactions. <i>Chemical Communications</i> , <b>2017</b> , 53, 11952-11955	5.8	15
74	Construction of Multi-Substituted Benzenes via NHC-Catalyzed Reactions of Carboxylic Esters. <i>Chinese Journal of Chemistry</i> , <b>2018</b> , 36, 333-337	4.9	15
73	Carbene-Catalyzed Desymmetrization and Direct Construction of Arenes with All-Carbon Quaternary Chiral Center. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 15925-15929	3.6	15
72	Carbene-Catalyzed [4 + 2] Cycloadditions of Vinyl Enolate and (in Situ Generated) Imines for Enantioselective Synthesis of Quaternary $\beta$ -Amino Phosphonates. <i>Organic Letters</i> , <b>2018</b> , 20, 5969-5972	6.2	15
71	Hydrodehalogenation of Aryl Halides through Direct Electrolysis. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 6911-6914	4.8	14
70	$\beta$ -Functionalization of Carboxylic Anhydrides with $\beta$ -Alkyl Substituents through Carbene Organocatalysis. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 13724-13727	3.6	14
69	Carbene-Catalyzed Atroposelective Annulation and Desymmetrization of Urazoles. <i>Organic Letters</i> , <b>2021</b> , 23, 3991-3996	6.2	14
68	Enantioselective Intermolecular Heck and Reductive Heck Reactions of Aryl Triflates, Mesylates, and Tosylates Catalyzed by Nickel. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 2828-2832	16.4	14
67	Carbene-catalyzed enantioselective oxidative coupling of enals and di(hetero)arylmethanes. <i>Chemical Science</i> , <b>2018</b> , 9, 8711-8715	9.4	14
66	Asymmetric Three-Component Heck Arylation/Amination of Nonconjugated Cycloienes. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 5341-5345	16.4	13
65	Carbene-Catalyzed $\beta$ -Deuteration of Enals under Oxidative Conditions. <i>ACS Catalysis</i> , <b>2020</b> , 10, 5475-5482	13.1	13
64	Green and Rapid Access to Benzocoumarins via Direct Benzene Construction through Base-Mediated Formal [4+2] Reaction and Air Oxidation. <i>Advanced Synthesis and Catalysis</i> , <b>2016</b> , 358, 707-712	5.6	13
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48	Carbene-Catalyzed Enantioselective Aromatic N-Nucleophilic Addition of Heteroarenes to Ketones. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 450-456	3.6	8
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39	Theoretical study of N-heterocyclic carbenes-catalyzed cascade annulation of benzodienones and enals. <i>Chirality</i> , <b>2013</b> , 25, 521-8	2.1	5
38	Carbene-catalyzed atroposelective synthesis of axially chiral styrenes.. <i>Nature Communications</i> , <b>2022</b> , 13, 84	17.4	5
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34	Asymmetric Three-Component Heck Arylation/Amination of Nonconjugated Cycloienes. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 5379-5383	3.6	4
33	Carbene-Catalyzed Direct Functionalization of the $\beta$ -Carbon Atoms of $\alpha$ -Chloroaldehydes. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 12719-12723	4.8	4
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28	Access to Planar Chiral Ferrocenes via N-Heterocyclic Carbene-Catalyzed Enantioselective Desymmetrization Reactions. <i>ACS Catalysis</i> , 2706-2713	13.1	3
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26	Carbene-Catalyzed Dynamic Kinetic Resolution and Asymmetric Acylation of Hydroxyphthalides and Related Natural Products. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 3887-3891	3.6	3

25	Chemo-selective cross reaction of two enals carbene-catalyzed dual activation. <i>Chemical Science</i> , <b>2020</b> , 11, 12533-12539	9.4	3
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22	Carbene-Catalyzed Asymmetric Construction of Atropisomers. <i>Angewandte Chemie</i> ,	3.6	3
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18	Enantioselective Intermolecular Heck and Reductive Heck Reactions of Aryl Triflates, Mesylates, and Tosylates Catalyzed by Nickel. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 2864-2868	3.6	2
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16	Nickel-catalyzed Heck reaction of cycloalkenes using aryl sulfonates and pivalates. <i>Chemical Communications</i> , <b>2021</b> , 57, 3933-3936	5.8	2
15	Carbene-Catalyzed Enantioselective Hydrophosphination of $\alpha$ -Bromoaldehydes to Prepare Phosphine-Containing Chiral Molecules. <i>Angewandte Chemie</i> ,	3.6	1
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12	Umpolung of donor-acceptor cyclopropanes via N-heterocyclic carbene organic catalysis. <i>Organic Chemistry Frontiers</i> , <b>2021</b> , 8, 5105-5111	5.2	1
11	Enantioselective modification of sulfonamides and sulfonamide-containing drugs via carbene organic catalysis. <i>Organic Chemistry Frontiers</i> ,	5.2	1
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2	Carbene-Catalyzed Activation of Formyl-phenylacetic Esters for Access to Chiral Dihydroisoquinolinones. <i>Organic Letters</i> , <b>2021</b> , 23, 7513-7517	6.2	o
1	ASYMMETRIC CARBENE CATALYSIS <b>2022</b> , 199-242		