

# Yonggui Robin Chi

## List of Publications by Year in Descending Order

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

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	Carbene-catalyzed atroposelective synthesis of axially chiral styrenes.. <i>Nature Communications</i> , <b>2022</b> , 13, 84	17.4	5
185	Catalytic atroposelective synthesis of axially chiral benzonitriles via chirality control during bond dissociation and CN group formation.. <i>Nature Communications</i> , <b>2022</b> , 13, 36	17.4	4
184	N-heterocyclic carbene-catalyzed arene formation reactions. <i>Science China Chemistry</i> , <b>2022</b> , 65, 210-223	7.9	3
183	Programmable selective acylation of saccharides mediated by carbene and boronic acid. <i>Chem</i> , <b>2022</b> , 8, 1518-1534	16.2	1
182	ASYMMETRIC CARBENE CATALYSIS <b>2022</b> , 199-242		
181	Nickel-catalyzed enantioselective umpolung hydrogenation for stereoselective synthesis of $\beta$ -amido esters. <i>Chemical Communications</i> , <b>2021</b> , 57, 11501-11504	5.8	3
180	Carbene-Catalyzed Enantioselective Hydrophosphination of $\beta$ -Bromoaldehydes to Prepare Phosphine-Containing Chiral Molecules. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 26616-26621	16.4	7
179	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
178	N-Heterocyclic Carbene-Catalyzed Atroposelective Annulation for Access to Thiazine Derivatives with C-N Axial Chirality. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 9448-9453	3.6	6
177	Carbene-Catalyzed N,N-Nucleophilic Activation of Thioureas for Access to Pyrimidinethione Derivatives. <i>Asian Journal of Organic Chemistry</i> , <b>2021</b> , 10, 1090-1093	3	0
176	Access to Allene-Containing Molecules via Enantioselective Reactions of Azolium Cumulenolate Intermediates. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 14817-14823	16.4	4
175	Access to Allene-Containing Molecules via Enantioselective Reactions of Azolium Cumulenolate Intermediates. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 14943-14949	3.6	0
174	Carbene-catalyzed activation of cyclopropylcarbaldehydes for mannich reaction and $\beta$ -lactam formation: remote enantioselectivity control and dynamic kinetic asymmetric transformation. <i>Science China Chemistry</i> , <b>2021</b> , 64, 985-990	7.9	3
173	Carbene-Catalyzed Atroposelective Annulation and Desymmetrization of Urazoles. <i>Organic Letters</i> , <b>2021</b> , 23, 3991-3996	6.2	14
172	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
171	Enantioselective Three-Component Coupling of Heteroarenes, Cycloalkenes and Propargylic Acetates. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 4541-4545	3.6	0
170	Enantioselective Three-Component Coupling of Heteroarenes, Cycloalkenes and Propargylic Acetates. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 4491-4495	16.4	5

169	Carbene-catalyzed selective addition of isothioureas to enals for access to sulphur-containing 5,6-dihydropyrimidin-4-ones. <i>Organic Chemistry Frontiers</i> , <b>2021</b> , 8, 743-747	5.2	7
168	Carbene-Catalyzed Enantioselective Aldol Reaction: Post-Aldol Stereochemistry Control and Formation of Quaternary Stereogenic Centers. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 161-167	3.6	1
167	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
166	Carbene-Catalyzed Enantioselective Aldol Reaction: Post-Aldol Stereochemistry Control and Formation of Quaternary Stereogenic Centers. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 159-163	16.4	3
165	Assembly of multicyclic isoquinoline scaffolds from pyridines: formal total synthesis of fredericamycin A. <i>Chemical Science</i> , <b>2021</b> , 12, 10259-10265	9.4	1
164	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
163	NHC-catalyzed covalent activation of heteroatoms for enantioselective reactions. <i>Chemical Science</i> , <b>2021</b> , 12, 5037-5043	9.4	12
162	Carbene-Catalyzed Activation of Remote Nitrogen Atoms of (Benz)imidazole-Derived Aldimines for Enantioselective Synthesis of Heterocycles. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 7985-7991	3.6	2
161	Carbene-Catalyzed Activation of Remote Nitrogen Atoms of (Benz)imidazole-Derived Aldimines for Enantioselective Synthesis of Heterocycles. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 7906-7912	16.4	7
160	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
159	Carbene-Catalyzed Asymmetric Construction of Atropisomers. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 26026-26037	16.4	18
158	N-Heterocyclic carbene catalyzed aza-benzoin reaction for access to $\alpha$ -aminoketone molecules containing benzothiazole fragments. <i>Tetrahedron</i> , <b>2021</b> , 94, 132311	2.4	0
157	Desymmetrization of Cyclic 1,3-Diketones under $\gamma$ -Heterocyclic Carbene Organocatalysis: Access to Organofluorines with Multiple Stereogenic Centers. <i>Research</i> , <b>2021</b> , 2021, 9867915	7.8	1
156	Development of green and low-cost chiral oxidants for asymmetric catalytic hydroxylation of enals. <i>Green Synthesis and Catalysis</i> , <b>2021</b> , 2, 295-298	9.3	5
155	Asymmetric Domino Heck Arylation and Alkylation of Nonconjugated Dienes: Double C-F $\pi$ /Sodium Attractive Noncovalent Interaction. <i>Organic Letters</i> , <b>2021</b> , 23, 7064-7068	6.2	0
154	Carbene-Catalyzed Activation of Formyl-phenylacetic Esters for Access to Chiral Dihydroisoquinolinones. <i>Organic Letters</i> , <b>2021</b> , 23, 7513-7517	6.2	0
153	Nickel-catalyzed Heck reaction of cycloalkenes using aryl sulfonates and pivalates. <i>Chemical Communications</i> , <b>2021</b> , 57, 3933-3936	5.8	2
152	Carbene-catalyzed enantioselective annulation of dinucleophilic hydrazones and bromoenals for access to aryl-dihydropyridazinones and related drugs. <i>Chemical Science</i> , <b>2021</b> , 12, 8778-8783	9.4	4

151	Asymmetric Reductive and Alkynylative Heck Bicyclization of Enynes to Access Conformationally Restricted Aza[3.1.0]bicycles. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 10906-10910	3.6	4
150	N-Heterocyclic Carbene Organocatalysis: Activation Modes and Typical Reactive Intermediates. <i>Chinese Journal of Chemistry</i> , <b>2020</b> , 38, 1167-1202	4.9	76
149	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
148	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
147	Carbene-Catalyzed Reaction of Indolyl Methylenemalononitriles and Enals for Access to Complex Tetrahydrocarbazoles. <i>Organic Letters</i> , <b>2020</b> , 22, 2542-2547	6.2	12
146	Asymmetric Reductive and Alkynylative Heck Bicyclization of Enynes to Access Conformationally Restricted Aza[3.1.0]bicycles. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 10814-10818	16.4	11
145	Asymmetric Three-Component Heck Arylation/Amination of Nonconjugated Cycloienes. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 5379-5383	3.6	4
144	Asymmetric Three-Component Heck Arylation/Amination of Nonconjugated Cycloienes. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 5341-5345	16.4	13
143	A Glycosylated Cationic Block Poly( $\beta$ peptide) Reverses Intrinsic Antibiotic Resistance in All ESKAPE Gram-Negative Bacteria. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 6886-6893	3.6	3
142	Carbene-Catalyzed $\beta$ -Deuteration of Enals under Oxidative Conditions. <i>ACS Catalysis</i> , <b>2020</b> , 10, 5475-5482	13.1	13
141	Designer broad-spectrum polyimidazolium antibiotics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 31376-31385	11.5	12
140	Asymmetric Wacker-Type Oxyallenylation and Azaallenylation of Cyclic Alkenes. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 2266-2270	3.6	9
139	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
138	Asymmetric Wacker-Type Oxyallenylation and Azaallenylation of Cyclic Alkenes. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 2246-2250	16.4	17
137	Carbene-Catalyzed Enantioselective Aromatic N-Nucleophilic Addition of Heteroarenes to Ketones. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 450-456	3.6	8
136	Gold and Carbene Relay Catalytic Enantioselective Cycloisomerization/Cyclization Reactions of Ynamides and Enals. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 1573-1577	3.6	11
135	Carbene-Catalyzed Dynamic Kinetic Resolution and Asymmetric Acylation of Hydroxyphthalides and Related Natural Products. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 3859-3863	16.4	10
134	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

133	Carbene-Catalyzed Formal [3+3] Cycloaddition Reaction for Access to Substituted 2-Phenylbenzothiazoles. <i>European Journal of Organic Chemistry</i> , <b>2020</b> , 2020, 492-495	3.2	8
132	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
131	Chemo-selective cross reaction of two enals carbene-catalyzed dual activation. <i>Chemical Science</i> , <b>2020</b> , 11, 12533-12539	9.4	3
130	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
129	Access to Optically Enriched $\beta$ -Aryloxy-carboxylic Esters via Carbene-Catalyzed Dynamic Kinetic Resolution and Transesterification. <i>Organic Letters</i> , <b>2020</b> , 22, 3335-3338	6.2	9
128	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
127	Enantiomeric glycosylated cationic block co- $\beta$ -peptides eradicate Staphylococcus aureus biofilms and antibiotic-tolerant persisters. <i>Nature Communications</i> , <b>2019</b> , 10, 4792	17.4	53
126	Engineering channels of metal-organic frameworks to enhance catalytic selectivity. <i>Chemical Communications</i> , <b>2019</b> , 55, 11770-11773	5.8	20
125	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
124	N-heterocyclische Carbene katalysieren die radikalische Kupplung von Aldehyden mit redoxaktiven Estern. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 8720-8722	3.6	12
123	Sulfone-Based Probes Unraveled Dihydrolipoamide S-Succinyltransferase as an Unprecedented Target in Phytopathogens. <i>Journal of Agricultural and Food Chemistry</i> , <b>2019</b> , 67, 6962-6969	5.7	6
122	Addition of a Carbene Catalyst to Indole Aryl Aldehyde Activates a Remote $\beta$ p Carbon for Protonation and Formal [4+2] Reaction. <i>Organic Letters</i> , <b>2019</b> , 21, 5026-5029	6.2	8
121	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
120	N-Heterocyclic Carbene Catalyzed Radical Coupling of Aldehydes with Redox-Active Esters. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 8628-8630	16.4	53
119	Efficient Access to 2-Pyrones via Carbene-Catalyzed Oxidative [3+3] Reactions between Enals and Nitrogen Ylides. <i>Asian Journal of Organic Chemistry</i> , <b>2019</b> , 8, 1067-1070	3	8
118	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
117	Hydrodehalogenation of Aryl Halides through Direct Electrolysis. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 6911-6914	4.8	14
116	Carbene-Catalyzed Direct Functionalization of the $\beta$ p -Carbon Atoms of $\beta$ -Chloroaldehydes. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 12719-12723	4.8	4

115	NaOH-Promoted Chemoselective Cascade Cyclization of Cyclopropyl Esters with Unsaturated Imines: Access to Bioactive Cyclopenta[c]pyridine Derivatives. <i>Organic Letters</i> , <b>2019</b> , 21, 6624-6627	6.2	7
114	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
113	Green oxidation of indoles using halide catalysis. <i>Nature Communications</i> , <b>2019</b> , 10, 4754	17.4	38
112	Access to Cyclic $\beta$ -Amino Acids by Amine-Catalyzed Enantioselective Addition of the $\beta$ -Carbon Atoms of $\alpha,\beta$ -Unsaturated Imines to Enals. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 17349-17353	3.6	2
111	NHC-Catalyzed Chemoselective Reactions of Enals and Aminobenzaldehydes for Access to Chiral Dihydroquinolines. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 18581-18584	3.6	6
110	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
109	Access to Cyclic $\beta$ -Amino Acids by Amine-Catalyzed Enantioselective Addition of the $\beta$ -Carbon Atoms of $\alpha,\beta$ -Unsaturated Imines to Enals. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 17189-17193	16.4	2
108	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
107	Enantioselective Indole N $\beta$ 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
106	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
105	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
104	Access to All-Carbon Spirocycles through a Carbene and Thiourea Cocatalytic Desymmetrization Cascade Reaction. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 1798-1802	3.6	10
103	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
102	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
101	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
100	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
99	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
98	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



97	Sulfinate and Carbene Co-catalyzed Rauhut-Currier Reaction for Enantioselective Access to Azepino[1,2-a]indoles. <i>Angewandte Chemie</i> , <b>2018</b> , 131, 487	3.6	1
96	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
95	Carbene-catalyzed enantioselective oxidative coupling of enals and di(hetero)arylmethanes. <i>Chemical Science</i> , <b>2018</b> , 9, 8711-8715	9.4	14
94	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
93	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
92	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
91	Polyhalides as Efficient and Mild Oxidants for Oxidative Carbene Organocatalysis by Radical Processes. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 2942-2946	16.4	63
90	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
89	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
88	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
87	Construction of Fused Pyrrolidines and $\beta$ -Lactones by Carbene-Catalyzed C-N, C-C, and C-O Bond Formations. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 4265-4269	3.6	11
86	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
85	Trimerization of enones under air enabled by NHC/NaOtBu via a SET radical pathway. <i>Organic Chemistry Frontiers</i> , <b>2017</b> , 4, 467-471	5.2	9
84	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
83	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
82	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
81	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
80	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

79	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
78	Carbene-catalysed reductive coupling of nitrobenzyl bromides and activated ketones or imines via single-electron-transfer process. <i>Nature Communications</i> , <b>2016</b> , 7, 12933	17.4	52
77	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
76	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
75	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
74	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
73	Carbene-Catalyzed Dynamic Kinetic Resolution of Carboxylic Esters. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 7212-5	16.4	61
72	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
71	Enantioselective Nucleophilic $\beta$ -Carbon-Atom Amination of Enals: Carbene-Catalyzed Formal [3+2] Reactions. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 12280-4	16.4	73
70	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
69	Aminomethylation of Enals through Carbene and Acid Cooperative Catalysis: Concise Access to $\beta$ -Amino Acids. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 5250-5254	3.6	28
68	Cycloaddition of cyclobutenone and azomethine imine enabled by chiral isothiourea organic catalysts. <i>Chemical Science</i> , <b>2015</b> , 6, 6008-6012	9.4	52
67	N-Heterocyclic Carbene-Catalyzed $\beta$ -Carbon LUMO Activation of Unsaturated Aldehydes. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 5658-61	16.4	75
66	Nucleophilic $\beta$ -Carbon Activation of Propionic Acid as a 3-Carbon Synthone by Carbene Organocatalysis. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 9360-3	4.8	36
65	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
64	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
63	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
62	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



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60	N-heterocyclic carbene organocatalytic reductive $\alpha$ -coupling reactions of nitroalkenes via radical intermediates. <i>Organic Letters</i> , <b>2014</b> , 16, 5678-81	6.2	61
59	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
58	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
57	$\alpha$ -Functionalization of carboxylic anhydrides with $\beta$ -alkyl substituents through carbene organocatalysis. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 13506-9	16.4	68
56	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
55	Benzene construction via organocatalytic formal [3+3] cycloaddition reaction. <i>Nature Communications</i> , <b>2014</b> , 5, 5027	17.4	81
54	Metal and carbene organocatalytic relay activation of alkynes for stereoselective reactions. <i>Nature Communications</i> , <b>2014</b> , 5, 3982	17.4	87
53	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
52	$\alpha$ -Functionalization of Carboxylic Anhydrides with $\beta$ -Alkyl Substituents through Carbene Organocatalysis. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 13724-13727	3.6	14
51	NHC organocatalytic formal LUMO activation of $\alpha$ -unsaturated esters for reaction with enamides. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 8592-6	16.4	176
50	$\alpha$ -Carbon activation of saturated carboxylic esters through N-heterocyclic carbene organocatalysis. <i>Nature Chemistry</i> , <b>2013</b> , 5, 835-9	17.6	222
49	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
48	NHC Organocatalytic Formal LUMO Activation of $\alpha$ -Unsaturated Esters for Reaction with Enamides. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 8754-8758	3.6	58
47	Direct $\alpha$ -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
46	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
45	Asymmetric access to the smallest enolate intermediate via organocatalytic activation of acetic ester. <i>Organic Letters</i> , <b>2013</b> , 15, 5822-5	6.2	74
44	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

43	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
42	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
41	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
40	cis-Enals in N-heterocyclic carbene-catalyzed reactions: distinct stereoselectivity and reactivity. <i>Chemical Science</i> , <b>2013</b> , 4, 2613	9.4	62
39	Direct $\beta$ -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
38	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
37	NHC-catalyzed reactions of enals with water as a solvent. <i>Green Chemistry</i> , <b>2013</b> , 15, 1505	10	33
36	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
35	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
34	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
33	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
32	Facile access to chiral ketones through metal-free oxidative C-C bond cleavage of aldehydes by O <sub>2</sub> . <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 1911-4	16.4	60
31	Addition of indoles to oxyallyl cations for facile access to $\beta$ -indole carbonyl compounds. <i>Organic Letters</i> , <b>2012</b> , 14, 1922-5	6.2	61
30	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
29	Highly enantioselective addition of enals to isatin-derived ketimines catalyzed by N-heterocyclic carbenes: synthesis of spirocyclic $\beta$ -lactams. <i>Organic Letters</i> , <b>2012</b> , 14, 5412-5	6.2	175
28	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
27	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
26	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

25	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
24	Oxidative 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
23	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
22	Formal Diels-Alder reactions of chalcones and formylcyclopropanes catalyzed by chiral N-heterocyclic carbenes. <i>Organic Letters</i> , <b>2011</b> , 13, 5366-9	6.2	71
21	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
20	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
19	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
18	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
17	Brønsted acid catalyzed alkylation of aldehydes with diaryl methyl alcohols. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 12272-5	4.8	19
16	Polarity-Directed One-Pot Asymmetric Cascade Reactions Mediated by Two Catalysts in an Aqueous Buffer. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 2443-2446	3.6	12
15	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
14	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
13	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
12	Enantioselective organocatalytic Michael addition of aldehydes to nitroethylene: efficient access to gamma2-amino acids. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 5608-9	16.4	152
11	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
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8	A rapid 1H NMR assay for enantiomeric excess of alpha-substituted aldehydes. <i>Organic Letters</i> , <b>2005</b> , 7, 3469-72	6.2	35

7	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
6	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
5	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
4	Access to Planar Chiral Ferrocenes via N-Heterocyclic Carbene-Catalyzed Enantioselective Desymmetrization Reactions. <i>ACS Catalysis</i> , 2706-2713	13.1	3
3	Carbene-Catalyzed Enantioselective Hydrophosphination of $\alpha$ -Bromoaldehydes to Prepare Phosphine-Containing Chiral Molecules. <i>Angewandte Chemie</i> ,	3.6	1
2	Enantioselective modification of sulfonamides and sulfonamide-containing drugs via carbene organic catalysis. <i>Organic Chemistry Frontiers</i> ,	5.2	1
1	Carbene-Catalyzed Asymmetric Construction of Atropisomers. <i>Angewandte Chemie</i> ,	3.6	3