

# Ying Cheng

## List of Publications by Year in descending order

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58  
papers

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citations

430874

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times ranked

851  
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#	ARTICLE	IF	CITATIONS
1	Reaction of $\hat{I}^2$ -Lactam Carbenes with 2-Pyridyl Isonitriles: A One-Pot Synthesis of 2-Carbonyl-3-(pyridylamino)imidazo[1,2- <i>a</i> ]pyridines Useful as Fluorescent Probes for Mercury Ion. <i>Journal of Organic Chemistry</i> , 2011, 76, 7458-7465.	3.2	108
2	Heterocycles Derived from Heteroatom-Substituted Carbenes. <i>Chemical Reviews</i> , 2004, 104, 2507-2530.	47.7	83
3	<i>N</i> -Heterocyclic Carbene Catalyzed Reaction of Phthalaldehydes: Controllable Stereoselective Synthesis of Polyhydroxylated Spiro- and Fused Indenones Dictated by the Structure of NHC Catalysts. <i>Journal of Organic Chemistry</i> , 2011, 76, 1844-1851.	3.2	51
4	Substrate-Controlled and Site-Selective [3+2] Cycloadditions of <i>N</i> -Heterocyclic Carbene Derived Ambident Dipoles. <i>Chemistry - A European Journal</i> , 2007, 13, 4282-4292.	3.3	47
5	A <i>N</i> -heterocyclic carbene derived highly regioselective ambident C=C=S and C=C=N 1,3-dipolar system. <i>Chemical Communications</i> , 2006, , 1215.	4.1	40
6	<i>N</i> -Heterocyclic Carbene-Catalyzed Oxidative Annulations of $\hat{I}^2$ , $\hat{I}^2$ -Unsaturated Aldehydes with Hydrazones: Selective Synthesis of Optically Active 4,5-Dihydropyridazin-3-ones and Pyridazin-3-ones. <i>Journal of Organic Chemistry</i> , 2015, 80, 6350-6359.	3.2	34
7	Multicomponent Reaction of Imidazo[1,5- <i>a</i> ]pyridine Carbenes with Aldehydes and Dimethyl Acetylenedicarboxylate or Allenoates: A Straightforward Approach to Fully Substituted Furans. <i>Journal of Organic Chemistry</i> , 2010, 75, 6644-6652.	3.2	33
8	Highly Efficient and Site-Selective [3 + 2] Cycloaddition of Carbene-Derived Ambident Dipoles with Ketenes for a Straightforward Synthesis of Spiro-Pyrrolidones. <i>Journal of Organic Chemistry</i> , 2007, 72, 6266-6269.	3.2	31
9	An Unprecedented Chemospecific and Stereoselective Tandem Nucleophilic Addition/Cycloaddition Reaction of Nucleophilic Carbenes with Ketenimines. <i>Journal of Organic Chemistry</i> , 2009, 74, 850-855.	3.2	30
10	<i>N</i> -Heterocyclic carbene-catalyzed cascade annulation reaction of <i>o</i> -vinylarylaldehydes with nitrosoarenes: one-step assembly of functionalized 2,3-benzoxazin-4-ones. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 4088.	2.8	26
11	Chiral <i>N</i> -heterocyclic carbene/Lewis acid cooperative catalysis of the reaction of 2-arylvinylcinnamaldehydes: a switch of the reaction pathway by Lewis acid activation. <i>Chemical Communications</i> , 2016, 52, 788-791.	4.1	26
12	Synthesis of <i>i</i> -Corona[6]arenes for Selective Anion Binding: Interdependent and Synergistic Anion $\pi$ and Hydrogen Bond Interactions. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23716-23723.	13.8	25
13	Changing the Reaction Pathway by NHC/Br $\ddot{A}$ nsted Base Cooperative Catalysis: Highly Stereoselective Synthesis of Multifunctional Benzo[ <i>a</i> ]fluoren-11-ones from the Dimerization of 2-(Arylviny)arylaldehydes. <i>Journal of Organic Chemistry</i> , 2014, 79, 2075-2081.	3.2	24
14	An Experimental and Theoretical Study on the Interaction of <i>N</i> -Heterocyclic Carbene-Derived 1,3-Dipoles with Methoxycarbonylallenes: Highly Regio- and Stereoselective [3+2]-Cycloadditions Controlled by the Structures of <i>N</i> -Heterocycles of 1,3-Dipoles. <i>Journal of Organic Chemistry</i> , 2009, 74, 2357-2367.	3.2	22
15	Interaction of $\hat{I}^2$ -Lactam Carbenes with 3,6-Diphenyltetrazines: A Five-Step Cascade Reaction for the Direct Construction of Indeno[2,1- <i>b</i> ]pyrrol-2-ones. <i>Journal of Organic Chemistry</i> , 2011, 76, 4746-4752.	3.2	21
16	Changing Reaction Pathways of the Dimerization of 2-Formylcinnamates by <i>N</i> -Heterocyclic Carbene/Lewis Acid Cooperative Catalysis: An Unusual Cleavage of the Carbon-Carbon Bond. <i>Organic Letters</i> , 2014, 16, 5520-5523.	4.6	21
17	Interaction of $\hat{I}^2$ -Lactam Carbenes with Aryl Isonitriles: An Unprecedented Rearrangement of 2-Azetidinonylidene Indoles to $\hat{I}$ -Carbolinones. <i>Journal of Organic Chemistry</i> , 2007, 72, 2625-2630.	3.2	20
18	An unprecedented tandem 1,3-dipolar cycloaddition $\pi$ -cheletropic elimination: a facial approach to novel push-pull olefins. <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 1282-1286.	2.8	19

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19	High Nucleophilicity of Cyclic Amidocarbene toward Aryl Isocyanates, New Approach to Spiro[azetidinone-4,3-indolinone] Derivatives. <i>Journal of Organic Chemistry</i> , 2006, 71, 4418-4427.	3.2	18
20	Highly site, regio-, and stereoselective multicomponent reaction of benzimidazole carbenes, isothiocyanates, and allenates. <i>Tetrahedron Letters</i> , 2008, 49, 485-489.	1.4	18
21	N-Heterocyclic Carbene/Brønsted Base Cascade Catalysis: Base-Controlled Selective Synthesis of Multifunctional Benzofuranones or Flavone Derivatives from the Reaction of $\alpha$ -(2-Formylphenoxy)propenoates with Imines. <i>Advanced Synthesis and Catalysis</i> , 2014, 356, 2580-2590.	4.3	18
22	N-Heterocyclic Carbene-Catalyzed Diastereoselective and Enantioselective Reaction of 2-Aroylvinylcinnamaldehydes with $\alpha,\beta$ -Unsaturated Imines: Complete Control and Switch of Diastereoselectivity by <i>ortho</i> -Substituents of Catalysts. <i>Journal of Organic Chemistry</i> , 2015, 80, 1727-1734.	3.2	18
23	<i>ortho</i> -Heterocyclic Carbene/Palladium Cascade Catalysis: Construction of 2,2-Disubstituted Benzofuranones from the Reaction of 3-(2-Formylphenoxy)propenoates with Allylic Esters. <i>Journal of Organic Chemistry</i> , 2018, 83, 1913-1923.	3.2	18
24	The unprecedented ring transformation from thiazoline-spiro-thiophene to thieno[2,3-b]pyrazine involved in the reaction of 2-thiocarbamoyl thiazolium salts with dimethyl acetylenedicarboxylate. <i>Chemical Communications</i> , 2007, , 5087.	4.1	17
25	Reaction of $\beta$ -lactam carbenes with alkyl isonitriles for a ready approach to 4-cyano and 4-carbamoyl substituted $\beta$ -lactams. <i>Tetrahedron</i> , 2007, 63, 9359-9364.	1.9	17
26	The [3 + 2] cycloaddition reaction of thiazole carbene-derived C-C-Se 1,3-dipoles: a concise and highly efficient strategy for the construction of multifunctional dihydroselenophenes and selenopheno[2,3-b]pyrazines. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 3264.	2.8	17
27	The multicomponent reaction of imidazo[1,5-a]pyridine carbenes with phthalaldehydes and dimethyl acetylenedicarboxylate: a facile construction of benzo[d]furo[3,2-b]azepines. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 2166.	2.8	17
28	NHC Brønsted base-catalyzed transformations of isochromene derivatives: regulation of products by the structures of carbene catalysts. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 9079.	2.8	17
29	A versatile method for the synthesis of heterocyclic ring-fused 1,2-oxazinones from the NHC-catalyzed reactions of 2-arylvinyllaldehydes with nitrosoarenes. <i>Tetrahedron</i> , 2013, 69, 888-894.	1.9	16
30	Selective Synthesis of Multifunctionalized 2,3-Dihydroindeno-1-ones and 1,3-Dihydroisobenzofurans from the Reaction of <i>ortho</i> -Alkynylbenzaldehydes with Imines Steered by N-Heterocyclic Carbene/Copper(II) and N-Heterocyclic Carbene/Base Cascade Catalysis. <i>Journal of Organic Chemistry</i> , 2018, 83, 8971-8983.	3.2	16
31	Interaction of Aryloxychlorocarbenes with Acetylenedicarboxylate: A Novel Formation of Polyfunctional Butadienes and 8-Oxatricyclo[3.2.1.0 <sup>2,4</sup> ]oct-6-enes. <i>Journal of Organic Chemistry</i> , 2005, 70, 4840-4846.	3.2	15
32	Synthesis of novel synthetic intermediates from the reaction of benzimidazole and triazole carbenes with ketenimines and their application in the construction of spiro-pyrroles. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 5010.	2.8	15
33	The Reaction of 2-Aroylvinylcinnamaldehydes with Aromatic Aldehydes by Dual Catalysis with a Chiral N-Heterocyclic Carbene and a Lewis Acid: Enantioselective Construction of Tetrahydroindeno[1,2- <i>cd</i> ]furan-1-ones. <i>Journal of Organic Chemistry</i> , 2016, 81, 8276-8286.	3.2	15
34	Carbenes from vilsmeier reagents by the action of bases in POCl <sub>3</sub> ; the umpolung of vilsmeier reagents. <i>Chemical Communications</i> , 1996, , 1395.	4.1	14
35	Synthesis of Acetyl-Substituted Heterocyclic Enamines and Their Reaction with Diethyl Azodicarboxylate. <i>Synthetic Communications</i> , 1995, 25, 1339-1351.	2.1	13
36	Synthetic Applications of Aminochlorocarbenes: A Two-step Conversion of N-Methylformanilides into 3-Arylamino-2-chloroindoles. <i>Synthesis</i> , 2002, 2002, 2426-2430.	2.3	13

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37	The unique nucleophilic reactivity of arylaminochlorocarbenes Electronic supplementary information (ESI) available: experimental details, characterization data for compounds 7 and 8. See <a href="http://www.rsc.org/suppdata/cc/b2/b210098c/">http://www.rsc.org/suppdata/cc/b2/b210098c/</a> . Chemical Communications, 2003, , 90-91.	4.1	13
38	Solvent controlled divergent syntheses of polysubstituted pyrroles and pyrrolo[2,3-b]-1,4-thiazines. Tetrahedron, 2008, 64, 7362-7368.	1.9	13
39	Orthogonal Synthesis of Densely Functionalized Pyrroles and Thiophenes from the Reactions of Imidazo[1,5- <i>a</i> ]pyridine Carbene-Derived Zwitterions with Electron-Deficient Alkynes. Journal of Organic Chemistry, 2010, 75, 2382-2388.	3.2	13
40	Asymmetric Synthesis of Multifunctionalized 2,3-Benzodiazepines by a One-Pot N-heterocyclic Carbene/Chiral Palladium Sequential Catalysis. Journal of Organic Chemistry, 2020, 85, 612-621.	3.2	12
41	The reaction of $\hat{\imath}^2$ -lactam carbenes with 3,6-dipyridyltetrazines: switch of reaction pathways by 2-pyridyl and 4-pyridyl substituents of tetrazines. Organic and Biomolecular Chemistry, 2012, 10, 970-977.	2.8	11
42	N-Heterocyclic carbene-catalyzed cascade reaction of 2-arylvinylninamaldehydes with 2-arylvinylnaldehydes: rapid assembly of six contiguous stereogenic centers with high diastereoselectivity. Organic and Biomolecular Chemistry, 2014, 12, 123-131.	2.8	11
43	Construction of enantiopure imine bridged benzo[ <i>c</i> ]azepinones by a silver( $\langle\text{scp}\rangle$ ) and chiral N-heterocyclic carbene multicatalytic reaction sequence of $\langle\text{N}\rangle$ - $\hat{\imath}^2$ -(2-alkynylbenzylidene)hydrazides and cyclopropanecarbaldehydes. Organic Chemistry Frontiers, 2020, 7, 3459-3467.	4.5	11
44	Umpeled Vilsmeier reagents. The chemistry of aminochlorocarbenes derived from Vilsmeier reagents by the action of bases $\hat{\imath}^1$ . Journal of the Chemical Society Perkin Transactions 1, 1998, , 1619-1626.	0.9	10
45	A Facile Method for the Synthesis of Novel Quinazolinone Compounds. Synthetic Communications, 1996, 26, 475-482.	2.1	8
46	The reaction of $\hat{\imath}^2$ -lactam carbenes with 3,6-di(2-pyrimidinyl)tetrazine: regulating products by reaction conditions. Tetrahedron, 2013, 69, 10279-10283.	1.9	8
47	$\langle\text{N}\rangle$ -Heterocyclic Carbene/Lewis Acid Dual Catalysis for the Divergent Construction of Enantiopure Bridged Lactones and Fused Indenes. Journal of Organic Chemistry, 2016, 81, 11871-11881.	3.2	8
48	One- $\hat{\imath}^6$ Step Formation both of $\langle\text{N}\rangle$ and of $\langle\text{O}\rangle$ Bonds of $\langle\text{N}\rangle$ - $\hat{\imath}^2$ Alkoxyamides through NHC-Catalyzed Three- $\hat{\imath}^6$ Component Reactions of Enals, Nitrosoarenes, and Enones. European Journal of Organic Chemistry, 2012, 2012, 4982-4987.	2.4	7
49	Synthesis of $\hat{\imath}^6$ -Corona[6]arenes for Selective Anion Binding: Interdependent and Synergistic Anion- $\hat{\imath}^6$ and Hydrogen- $\hat{\imath}^6$ Bond Interactions. Angewandte Chemie, 2020, 132, 23924-23931.	2.0	6
50	The surprising nucleophilic addition of aminochlorocarbenes to diethyl acetylenedicarboxylate and to oxalyl chloride: quinolines and benzo[1,4]diazepines from N-alkylformanilides and oxalyl chloride in the presence of H $\hat{\imath}^4$ ig's base. Organic and Biomolecular Chemistry, 2003, 1, 3605-3610.	2.8	4
51	Sequential Ag(I) Salt and Chiral N-Heterocyclic Carbene Catalysis Enables Enantioselective and Diastereoselective Construction of Complex Heterocyclic Molecules and the Switch of Stereoselectivity. Journal of Organic Chemistry, 2022, 87, 2779-2796.	3.2	4
52	N-Heterocyclic Carbene Catalyzed Reaction of 2-(2-Arylvinylninamaldehydes with $\hat{\imath}^2$ , $\hat{\imath}^2$ -Unsaturated Imines: An Efficient Method for the Stereoselective Synthesis of Highly Functionalized Indane Derivatives. Synthesis, 2013, 46, 87-95.	2.3	3
53	Construction of Complex Bisether-Bridged Medium-Sized Cyclic Compounds from $\langle\text{O}\rangle$ -(1-(Acyloxy)propargyl)benzaldehydes under Base and Acid Catalysis. Journal of Organic Chemistry, 2019, 84, 11114-11124.	3.2	3
54	Unexpected products from the formylation of N,N-dimethylanilines with 2-formamidopyridine in POCl $\hat{\imath}^3$ . Journal of the Chemical Society, Perkin Transactions 1, 2001, , 44-46.	1.3	2

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55	Construction of novel bridged aromatic ring-fused oxazocine frameworks via an N-heterocyclic carbene-catalyzed azabenzoin reaction and radical-initiated cascade cyclization. <i>Organic Chemistry Frontiers</i> , 2021, 8, 4192-4201.	4.5	2
56	Heterocycles Derived from Heteroatom-Substituted Carbenes. <i>ChemInform</i> , 2004, 35, no.	0.0	0
57	The unique nucleophilic reactivity of arylaminochlorocarbenes. <i>Chemical Communications</i> , 2003, , 90-1.	4.1	0
58	Experimental and Theoretical Study on the Regioselective Radical Cyclization Reactions of 1-( <i>o</i> -Alkenylaryl)-2-amido-1- <i>o</i> -ketones for the Construction of Indeno[2,1- <i>d</i> ][1,3]oxazin-9-ones. <i>Journal of Organic Chemistry</i> , 0, , .	3.2	0