

# Karl A Scheidt

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/9506164/karl-a-scheidt-publications-by-citations.pdf>

**Version:** 2024-04-20

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.

200  
papers

24,774  
citations

69  
h-index

156  
g-index

297  
ext. papers

26,783  
ext. citations

9.9  
avg, IF

7.41  
L-index

#	Paper	IF	Citations
200	Metal-organic framework materials as catalysts. <i>Chemical Society Reviews</i> , <b>2009</b> , 38, 1450-9	58.5	6514
199	PyrrolidinyI-spirooxindole natural products as inspirations for the development of potential therapeutic agents. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 8748-58	16.4	1946
198	A facile synthesis of UiO-66, UiO-67 and their derivatives. <i>Chemical Communications</i> , <b>2013</b> , 49, 9449-51	5.8	1013
197	A frequency domain existence proof of single-molecule surface-enhanced Raman spectroscopy. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 16249-56	16.4	455
196	A continuum of progress: applications of N-heterocyclic carbene catalysis in total synthesis. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 11686-98	16.4	452
195	Cooperative Lewis acid/-heterocyclic carbene catalysis. <i>Chemical Science</i> , <b>2012</b> , 3, 53-57	9.4	410
194	Single-molecule surface-enhanced Raman spectroscopy of crystal violet isotopologues: theory and experiment. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 4115-22	16.4	358
193	Cooperative catalysis by carbenes and Lewis acids in a highly stereoselective route to gamma-lactams. <i>Nature Chemistry</i> , <b>2010</b> , 2, 766-71	17.6	345
192	Cooperative Catalysis and Activation with N-Heterocyclic Carbenes. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 14912-14922	16.4	334
191	Conversion of alpha,beta-unsaturated aldehydes into saturated esters: an Umpolung reaction catalyzed by nucleophilic carbenes. <i>Organic Letters</i> , <b>2005</b> , 7, 905-8	6.2	324
190	Highly stereoselective formal [3 + 3] cycloaddition of enals and azomethine imines catalyzed by N-heterocyclic carbenes. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 5334-5	16.4	288
189	Cooperative N-heterocyclic carbene/Lewis acid catalysis for highly stereoselective annulation reactions with homoenolates. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 5345-7	16.4	283
188	A dual Lewis base activation strategy for enantioselective carbene-catalyzed annulations. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 10634-7	16.4	274
187	Urea metal-organic frameworks as effective and size-selective hydrogen-bond catalysts. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 3334-7	16.4	260
186	Catalytic enantioselective synthesis of flavanones and chromanones. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 3830-1	16.4	252
185	Tandem oxidation of allylic and benzylic alcohols to esters catalyzed by N-heterocyclic carbenes. <i>Organic Letters</i> , <b>2007</b> , 9, 371-4	6.2	242
184	An N-heterocyclic carbene/Lewis acid strategy for the stereoselective synthesis of spirooxindole lactones. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 4963-7	16.4	240

183	Enantioselective Friedel-Crafts alkylations catalyzed by bis(oxazoliny)pyridine-scandium(III) triflate complexes. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 10029-41	16.4	240
182	Enantioselective synthesis of alpha,alpha-disubstituted cyclopentenes by an N-heterocyclic carbene-catalyzed desymmetrization of 1,3-diketones. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 10098-9	16.4	225
181	Tris(dimethylamino)sulfonium Difluorotrimethylsilicate, a Mild Reagent for the Removal of Silicon Protecting Groups. <i>Journal of Organic Chemistry</i> , <b>1998</b> , 63, 6436-6437	4.2	220
180	Discovering New Reactions with N-Heterocyclic Carbene Catalysis. <i>Aldrichimica Acta</i> , <b>2009</b> , 42, 55-66	9	219
179	Single-Molecule Tip-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 478-483	3.8	206
178	Enantioselective indole Friedel-Crafts alkylations catalyzed by bis(oxazoliny)pyridine-scandium(III) triflate complexes. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 10780-1	16.4	205
177	Emerging Roles of in Situ Generated Quinone Methides in Metal-Free Catalysis. <i>Journal of Organic Chemistry</i> , <b>2016</b> , 81, 10145-10153	4.2	198
176	A highly enantioselective intramolecular Michael reaction catalyzed by N-heterocyclic carbenes. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 3107-10	16.4	197
175	Enantioselective and diastereoselective Mukaiyama-Michael reactions catalyzed by bis(oxazoline) copper(II) complexes. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 4480-91	16.4	194
174	N-heterocyclic carbene-catalyzed oxidation of unactivated aldehydes to esters. <i>Organic Letters</i> , <b>2008</b> , 10, 4331-4	6.2	191
173	Prins-type macrocyclizations as an efficient ring-closing strategy in natural product synthesis. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 8316-26	16.4	189
172	The thiazolium-catalyzed Sila-Stetter reaction: conjugate addition of acylsilanes to unsaturated esters and ketones. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 2314-5	16.4	187
171	Enantioselective annulations for dihydroquinolones by in situ generation of azolium enolates. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 10589-92	16.4	184
170	N-heterocyclic carbene-catalyzed conjugate additions of alcohols. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 13179-81	16.4	183
169	Catalytic multicomponent synthesis of highly substituted pyrroles utilizing a one-pot sila-Stetter/Paal-Knorr strategy. <i>Organic Letters</i> , <b>2004</b> , 6, 2465-8	6.2	176
168	Vinyl Sulfonate Esters and Vinyl Sulfonamides: Potent, Irreversible Inhibitors of Cysteine Proteases. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 10994-10995	16.4	175
167	A continuing challenge: N-heterocyclic carbene-catalyzed syntheses of $\beta$ -butyrolactones. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 1773-1782	58.5	167
166	Anwendungen der Katalyse mit N-heterocyclischen Carbenen in Totalsynthesen. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 11854-11866	3.6	163

- 165 Highly diastereo- and enantioselective additions of homoenolates to nitrones catalyzed by N-heterocyclic carbenes. *Journal of the American Chemical Society*, **2008**, 130, 2416-7 16.4 160
- 164 Direct amination of homoenolates catalyzed by N-heterocyclic carbenes. *Journal of the American Chemical Society*, **2008**, 130, 2740-1 16.4 150
- 163 Lewis acid activated synthesis of highly substituted cyclopentanes by the N-heterocyclic carbene catalyzed addition of homoenolate equivalents to unsaturated ketoesters. *Angewandte Chemie - International Edition*, **2011**, 50, 1678-82 16.4 146
- 162 Hydroacylation of activated ketones catalyzed by N-heterocyclic carbenes. *Journal of the American Chemical Society*, **2006**, 128, 4558-9 16.4 143
- 161 Remarkably stable tetrahedral intermediates: carbinols from nucleophilic additions to N-acylpyrroles. *Angewandte Chemie - International Edition*, **2002**, 41, 3188-91 16.4 143
- 160 Catalytic multicomponent reactions for the synthesis of N-aryl trisubstituted pyrroles. *Journal of Organic Chemistry*, **2007**, 72, 1811-3 4.2 140
- 159 Kooperative Katalyse mit N-heterocyclischen Carbenen. *Angewandte Chemie*, **2016**, 128, 15134-15145 3.6 139
- 158 Direct nucleophilic acylation of nitroalkenes promoted by a fluoride anion/thiourea combination. *Journal of the American Chemical Society*, **2006**, 128, 4932-3 16.4 131
- 157 Total synthesis and structural revision of the marine macrolide neopeltolide. *Journal of the American Chemical Society*, **2008**, 130, 804-5 16.4 130
- 156 Thiazolium-catalyzed additions of acylsilanes: a general strategy for acyl anion addition reactions. *Journal of Organic Chemistry*, **2006**, 71, 5715-24 4.2 129
- 155 N-Heterocyclic Carbene-Catalyzed Oxidations. *Tetrahedron*, **2009**, 65, 3102-3109 2.4 116
- 154 Catalytic conjugate additions of carbonyl anions under neutral aqueous conditions. *Journal of the American Chemical Society*, **2005**, 127, 14675-80 16.4 110
- 153 N-Heterocyclic Carbene-Like Catalysis by a MetalOrganic Framework Material. *ACS Catalysis*, **2012**, 2, 1550-1554 13.1 100
- 152 Total synthesis of (-)-bafilomycin A(1). *Journal of the American Chemical Society*, **2002**, 124, 6981-90 16.4 99
- 151 An N-Heterocyclic Carbene/Lewis Acid Strategy for the Stereoselective Synthesis of Spirooxindole Lactones. *Angewandte Chemie*, **2012**, 124, 5047-5051 3.6 97
- 150 N-heterocyclic carbene-catalyzed enantioselective Mannich reactions with alpha-aryloxyacetaldehydes. *Journal of the American Chemical Society*, **2009**, 131, 18028-9 16.4 96
- 149 N-Heterocyclic carbene-catalyzed enantioselective annulations: a dual activation strategy for a formal [4+2] addition for dihydrocoumarins. *Chemical Communications*, **2015**, 51, 3407-10 5.8 95
- 148 Catalytic dynamic kinetic resolutions with N-heterocyclic carbenes: asymmetric synthesis of highly substituted lactones. *Angewandte Chemie - International Edition*, **2012**, 51, 7309-13 16.4 94

147	Catalytic additions of acylsilanes to imines: an acyl anion strategy for the direct synthesis of alpha-amino ketones. <i>Organic Letters</i> , <b>2004</b> , 6, 4363-6	6.2	88
146	Amide enolate additions to acylsilanes: in situ generation of unusual and stereoselective homoenolate equivalents. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 8805-14	16.4	87
145	Nucleophilic acylation of o-quinone methides: an umpolung strategy for the synthesis of alpha-aryl ketones and benzofurans. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 4508-9	16.4	86
144	A Cooperative N-Heterocyclic Carbene/Palladium Catalysis System. <i>Chemical Science</i> , <b>2014</b> , 5, 4026-4031	9.4	84
143	Asymmetric homoenolate additions to acyl phosphonates through rational design of a tailored N-heterocyclic carbene catalyst. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 76-9	16.4	82
142	A mixed dicarboxylate strut approach to enhancing catalytic activity of a de novo urea derivative of metal-organic framework UiO-67. <i>Chemical Communications</i> , <b>2013</b> , 49, 10920-2	5.8	81
141	Total synthesis and structure-activity investigation of the marine natural product neopeltolide. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 12406-14	16.4	81
140	Asymmetric Methods for the Synthesis of Flavanones, Chromanones, and Azaflavanones. <i>European Journal of Organic Chemistry</i> , <b>2012</b> , 2012, 449-462	3.2	79
139	NHC-catalyzed reactions of aryloxyacetaldehydes: a domino elimination/conjugate addition/acylation process for the synthesis of substituted coumarins. <i>Organic Letters</i> , <b>2009</b> , 11, 105-8	6.2	79
138	NHC-catalyzed/titanium(IV)-mediated highly diastereo- and enantioselective dimerization of enals. <i>Organic Letters</i> , <b>2011</b> , 13, 1068-71	6.2	77
137	N-heterocyclic carbene-catalyzed rearrangements of vinyl sulfones. <i>Chemical Science</i> , <b>2011</b> , 2, 1772-1776	9.4	77
136	MEK4 function, genistein treatment, and invasion of human prostate cancer cells. <i>Journal of the National Cancer Institute</i> , <b>2009</b> , 101, 1141-55	9.7	77
135	Structure-based design, synthesis and evaluation of conformationally constrained cysteine protease inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , <b>1998</b> , 6, 2477-94	3.4	77
134	Synthesis and gas sorption properties of a metal-azolium framework (MAF) material. <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 9971-3	5.1	76
133	Catalytic enantioselective total syntheses of bakkenolides I, J, and S: application of a carbene-catalyzed desymmetrization. <i>Organic Letters</i> , <b>2010</b> , 12, 2830-3	6.2	75
132	N-heterocyclic-carbene-catalyzed synthesis of 2-aryl indoles. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 9603-7	16.4	72
131	Ferrocene-based planar chiral imidazopyridinium salts for catalysis. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 4264-8	16.4	69
130	Combined Photoredox and Carbene Catalysis for the Synthesis of Ketones from Carboxylic Acids. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 9143-9148	16.4	68

129	Impact of solvent polarity on N-heterocyclic carbene-catalyzed beta-protonations of homoenolate equivalents. <i>Organic Letters</i> , <b>2009</b> , 11, 3942-5	6.2	68
128	Synthesis of (-)-epibatidine. <i>Organic Letters</i> , <b>2001</b> , 3, 3009-12	6.2	67
127	Enantioselective $\beta$ -Protonation by a Cooperative Catalysis Strategy. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 5891-4	16.4	66
126	Enantioselective N-heterocyclic carbene catalyzed annulation reactions with imidazolidinones. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 13616-20	16.4	66
125	Highly stereoselective Brønsted acid catalyzed synthesis of spirooxindole pyrans. <i>Organic Letters</i> , <b>2011</b> , 13, 3086-9	6.2	66
124	Microwave-assisted Piloty-Robinson synthesis of 3,4-disubstituted pyrroles. <i>Journal of Organic Chemistry</i> , <b>2007</b> , 72, 3941-4	4.2	66
123	Nonisocyanate Thermoplastic Polyhydroxyurethane Elastomers via Cyclic Carbonate Aminolysis: Critical Role of Hydroxyl Groups in Controlling Nanophase Separation. <i>ACS Macro Letters</i> , <b>2016</b> , 5, 424-429	6.6	65
122	Lewis acid-catalyzed conjugate additions of silyloxyallenes: a selective solution to the intermolecular Rauhut-Currier problem. <i>Organic Letters</i> , <b>2008</b> , 10, 2449-52	6.2	65
121	A cooperative N-heterocyclic carbene/chiral phosphate catalysis system for allenolate annulations. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 7594-8	16.4	62
120	Lewis base-catalyzed additions of alkynes using trialkoxysilylalkynes. <i>Organic Letters</i> , <b>2005</b> , 7, 3227-30	6.2	62
119	A tandem isomerization/prins strategy: iridium(III)/Brønsted acid cooperative catalysis. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 12910-4	16.4	61
118	Catalytic Kinetic Resolution of a Dynamic Racemate: Highly Stereoselective $\beta$ -Lactone Formation by $\alpha$ -Heterocyclic Carbene Catalysis. <i>Chemical Science</i> , <b>2014</b> , 5, 1974-1982	9.4	60
117	Die Prins-Makrocyclisierung als effiziente Ringschluss-Strategie in der Naturstoffsynthese. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 8494-8505	3.6	59
116	Lewis Acid Activation of a Hydrogen Bond Donor Metal-Organic Framework for Catalysis. <i>ACS Catalysis</i> , <b>2016</b> , 6, 3248-3252	13.1	59
115	Lewis Acid Activated Synthesis of Highly Substituted Cyclopentanes by the N-Heterocyclic Carbene Catalyzed Addition of Homoenolate Equivalents to Unsaturated Ketoesters. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 1716-1720	3.6	58
114	Copper(I)-catalyzed disilylation of alkylidene malonates employing a Lewis base activation strategy. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 84-5	16.4	58
113	Novel thermoplastic polyhydroxyurethane elastomers as effective damping materials over broad temperature ranges. <i>European Polymer Journal</i> , <b>2016</b> , 84, 770-783	5.2	57
112	Highly stereoselective synthesis of substituted gamma-lactams from acylsilanes. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 2294-7	16.4	55

111	Catalytic, three-component assembly reaction for the synthesis of pyrrolidines. <i>Organic Letters</i> , <b>2003</b> , 5, 3487-90	6.2	54
110	Heterogeneous ozone oxidation reactions of 1-pentene, cyclopentene, cyclohexene, and a menthenol derivative studied by sum frequency generation. <i>Journal of Physical Chemistry A</i> , <b>2008</b> , 112, 11688-98	2.8	53
109	Jammed acid-base reactions at interfaces. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 15444-7	16.4	53
108	Insights into Heterogeneous Atmospheric Oxidation Chemistry: Development of a Tailor-Made Synthetic Model for Studying Tropospheric Surface Chemistry. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 1567-1578	3.8	53
107	Enantioselective synthesis of (-)-exiguolide by iterative stereoselective dioxinone-directed Prins cyclizations. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 9112-5	16.4	51
106	Stereoselective synthesis of tetrahydropyran-4-ones from dioxinones catalyzed by scandium(III) triflate. <i>Organic Letters</i> , <b>2005</b> , 7, 1113-6	6.2	50
105	Stereoselective Lewis acid-catalyzed alpha-acylvinyl additions. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 15382-3	16.4	49
104	Enantioselective MSPV reduction of ketimines using 2-propanol and (BINOL)Al(III). <i>Organic Letters</i> , <b>2006</b> , 8, 1229-32	6.2	49
103	Stereoselective synthesis of alpha-silylamines by the direct addition of silyl anions to activated imines. <i>Organic Letters</i> , <b>2005</b> , 7, 1403-6	6.2	48
102	Total Synthesis of (-)-Bafilomycin A : Application of Diastereoselective Crotylboration and Methyl Ketone Aldol Reactions. <i>Angewandte Chemie - International Edition</i> , <b>1999</b> , 38, 1652-1655	16.4	48
101	Computational planning of the synthesis of complex natural products. <i>Nature</i> , <b>2020</b> , 588, 83-88	50.4	47
100	N-heterocyclic carbene-initiated alpha-acylvinyl anion reactivity: additions of alpha-hydroxypropargylsilanes to aldehydes. <i>Organic Letters</i> , <b>2007</b> , 9, 2581-4	6.2	46
99	A highly diastereoselective, catalytic three-component assembly reaction for the synthesis of spiropyrrolidinyloxindoles. <i>Chemical Communications</i> , <b>2007</b> , 631-3	5.8	45
98	Studies on the synthesis of bafilomycin A(1): stereochemical aspects of the fragment assembly aldol reaction for construction of the C(13)-C(25) segment. <i>Journal of Organic Chemistry</i> , <b>2002</b> , 67, 4275-83	6.2	45
97	Two Azolium Rings Are Better Than One: A Strategy for Controlling Catenation and Morphology in Zn and Cu Metal-Organic Frameworks. <i>Crystal Growth and Design</i> , <b>2011</b> , 11, 4747-4750	3.5	44
96	Cooperative Catalysis of Cyclic Carbonate Ring Opening: Application Towards Non-Isocyanate Polyurethane Materials. <i>European Journal of Organic Chemistry</i> , <b>2015</b> , 2015, 2791-2795	3.2	43
95	An Enantioselective Cross-Dehydrogenative Coupling Catalysis Approach to Substituted Tetrahydropyrans. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 6212-6216	16.4	43
94	Catalytic asymmetric alkylation of substituted isoflavanones. <i>Organic Letters</i> , <b>2009</b> , 11, 4010-3	6.2	42

93	Catalytic Dynamic Kinetic Resolutions with N-Heterocyclic Carbenes: Asymmetric Synthesis of Highly Substituted $\beta$ -Lactones. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 7421-7425	3.6	41
92	Synthesis of tertiary beta-hydroxy amides by enolate additions to acylsilanes. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 15566-7	16.4	41
91	Studies on the synthesis of apoptolidin A. 1. Synthesis of the C(1)-C(11) fragment. <i>Journal of Organic Chemistry</i> , <b>2008</b> , 73, 1031-5	4.2	39
90	Single-flask synthesis of N-acylated indoles by catalytic dehydrogenative coupling with primary alcohols. <i>Organic Letters</i> , <b>2009</b> , 11, 1651-4	6.2	38
89	Enantioselective synthesis of substituted indanones from silyloxyallenes. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 1472-3	16.4	37
88	Catalytic enantioselective alpha-acylvinyl anion reactions of silyloxyallenes. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 7806-9	16.4	36
87	N-Heterocyclic-Carbene-Catalyzed Synthesis of 2-Aryl Indoles. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 9757-9761	3.6	35
86	Concise syntheses of the abyssinones and discovery of new inhibitors of prostate cancer and MMP-2 expression. <i>ACS Medicinal Chemistry Letters</i> , <b>2010</b> , 1, 400-405	4.3	35
85	Chemically diverse environmental interfaces and their reactions with ozone studied by sum frequency generation. <i>Vibrational Spectroscopy</i> , <b>2009</b> , 50, 86-98	2.1	35
84	Carbene-Catalyzed Enantioselective Decarboxylative Annulations to Access Dihydrobenzoxazinones and Quinolones. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 5941-5945	16.4	34
83	Combined Photoredox/Enzymatic C-H Benzylic Hydroxylations. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 16490-16494	16.4	34
82	Enantioselective Synthesis of $\beta$ -Amidoboronates Catalyzed by Planar-Chiral NHC-Cu(I) Complexes. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 10644-10648	16.4	33
81	Synthesis of (-)-okilactomycin by a Prins-type fragment-assembly strategy. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 5892-5	16.4	33
80	Combined Effects of Carbonate and Soft-Segment Molecular Structures on the Nanophase Separation and Properties of Segmented Polyhydroxyurethane. <i>Macromolecules</i> , <b>2017</b> , 50, 3193-3203	5.5	32
79	Synthesis and Evaluation of Azolium-Based Halogen-Bond Donors. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 10069-10073	4.8	32
78	Efficient synthesis of acylsilanes using morpholine amides. <i>Organic Letters</i> , <b>2004</b> , 6, 3977-80	6.2	32
77	A Cooperative Hydrogen Bond Donor-Brønsted Acid System for the Enantioselective Synthesis of Tetrahydropyrans. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 17225-17229	16.4	32
76	Protonation of Homoenate Equivalents Generated by N-Heterocyclic Carbenes. <i>Synthesis</i> , <b>2008</b> , 2008, 1306-1315	2.9	30



75	Tuning nanophase separation behavior in segmented polyhydroxyurethane via judicious choice of soft segment. <i>Polymer</i> , <b>2017</b> , 110, 218-227	3.9	29
74	Remarkably Stable Tetrahedral Intermediates: Carbinols from Nucleophilic Additions to N-acylpyrroles. <i>Angewandte Chemie</i> , <b>2002</b> , 114, 3320-3323	3.6	29
73	Pyranone natural products as inspirations for catalytic reaction discovery and development. <i>Accounts of Chemical Research</i> , <b>2015</b> , 48, 1172-83	24.3	28
72	Highly selective alpha-acylvinyl anion additions to imines. <i>Organic Letters</i> , <b>2008</b> , 10, 5227-30	6.2	28
71	Environmental Biogeochemistry Studied by Second-Harmonic Generation: A Look at the Agricultural Antibiotic Oxytetracycline. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 8796-8804	3.8	28
70	A Concise Enantioselective Synthesis and Cytotoxic Evaluation of the Anticancer Rotenoid Deguelin Enabled by a Tandem Knoevenagel/Conjugate Addition/Decarboxylation Sequence. <i>Chemical Science</i> , <b>2013</b> , 4, 3304-3309	9.4	27
69	An NMR method for assigning relative stereochemistry to beta-hydroxy ketones deriving from aldol reactions of methyl ketones. <i>Journal of Organic Chemistry</i> , <b>2002</b> , 67, 4284-9	4.2	27
68	Intermolecular Reductive Couplings of Arylidene Malonates via Lewis Acid/Photoredox Cooperative Catalysis. <i>Organic Letters</i> , <b>2018</b> , 20, 6877-6881	6.2	27
67	Catalytic enantioselective synthesis of 2-aryl-chromenes. <i>Chemical Science</i> , <b>2014</b> , 5, 2277-2281	9.4	26
66	Enantioselective N-Heterocyclic Carbene Catalyzed Annulation Reactions with Imidazolidinones. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 13861-13865	3.6	26
65	N-Heterocyclic Carbene-Promoted Rauhut[Currier Reactions between Vinyl Sulfones and $\alpha$ -Unsaturated Aldehydes. <i>Australian Journal of Chemistry</i> , <b>2011</b> , 64, 1158-1164	1.2	26
64	A fluorescence-based thermal shift assay identifies inhibitors of mitogen activated protein kinase kinase 4. <i>PLoS ONE</i> , <b>2013</b> , 8, e81504	3.7	25
63	High-throughput photocapture approach for reaction discovery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 13261-13266	11.5	24
62	Reductive Arylation of Arylidene Malonates Using Photoredox Catalysis. <i>ACS Catalysis</i> , <b>2019</b> , 9, 10350-10357	3.7	24
61	A Tandem Isomerization/Prins Strategy: Iridium(III)/Brønsted Acid Cooperative Catalysis. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 13148-13152	3.6	24
60	Ferrocene-Based Planar Chiral Imidazopyridinium Salts for Catalysis. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 4338-4342	3.6	23
59	A Carbene Catalysis Strategy for the Synthesis of Protoilludane Natural Products. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 9864-9867	16.4	22
58	Enantioselective Syntheses of Heteroyohimbine Natural Products: A Unified Approach through Cooperative Catalysis. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 6900-4	16.4	22

57	A biomimetic strategy to access the silybins: total synthesis of (-)-isosilybin A. <i>Organic Letters</i> , <b>2015</b> , 17, 98-101	6.2	21
56	Anion chelation by amido acid functionalized fused quartz/water interfaces studied by nonlinear optics. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 7175-84	16.4	21
55	Catalytic, Enantioselective $\beta$ -Protonation through a Cooperative Activation Strategy. <i>Journal of Organic Chemistry</i> , <b>2017</b> , 82, 4689-4702	4.2	20
54	Assembly of four diverse heterocyclic libraries enabled by Prins cyclization, Au-catalyzed enyne cycloisomerization, and automated amide synthesis. <i>Journal of Organic Chemistry</i> , <b>2012</b> , 77, 7435-70	4.2	20
53	Copper-promoted N-arylations of cyclic imides within six-membered rings: a facile route to arylene-based organic materials. <i>Journal of Organic Chemistry</i> , <b>2005</b> , 70, 1486-9	4.2	20
52	A zwitterionic metal-organic framework with free carboxylic acid sites that exhibits enhanced hydrogen adsorption energies. <i>CrystEngComm</i> , <b>2013</b> , 15, 9408	3.3	19
51	Reductive annulations of arylidene malonates with unsaturated electrophiles using photoredox/Lewis acid cooperative catalysis. <i>Chemical Science</i> , <b>2019</b> , 10, 3353-3359	9.4	18
50	Functionalized cyclopentenes through a tandem NHC-catalyzed dynamic kinetic resolution and ambient temperature decarboxylation: mechanistic insight and synthetic application. <i>Chemical Communications</i> , <b>2015</b> , 51, 2690-3	5.8	17
49	Formation of Aza-ortho-quinone Methides Under Room Temperature Conditions: CsCO Effect. <i>Journal of Organic Chemistry</i> , <b>2017</b> , 82, 7183-7189	4.2	17
48	Enantioselective Synthesis of ( $\beta$ )-Exiguolide by Iterative Stereoselective Dioxinone-Directed Prins Cyclizations. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 9278-9281	3.6	17
47	Light-Driven Carbene Catalysis for the Synthesis of Aliphatic and $\beta$ -Amino Ketones. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 17925-17931	16.4	17
46	Combined Photoredox and Carbene Catalysis for the Synthesis of Ketones from Carboxylic Acids**. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 9228-9233	3.6	15
45	A Concise, Enantioselective Approach for the Synthesis of Yohimbine Alkaloids. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 2187-2192	16.4	15
44	A Cooperative N-Heterocyclic Carbene/Chiral Phosphate Catalysis System for Allenolate Annulations. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 7724-7728	3.6	15
43	Carbene-Catalyzed Enantioselective Decarboxylative Annulations to Access Dihydrobenzoxazinones and Quinolones. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 6002-6006	3.6	14
42	NHC-Catalyzed Formal [2+2] Annulations of Allenolates for the Synthesis of Substituted Oxetanes. <i>Journal of Organic Chemistry</i> , <b>2018</b> , 83, 14637-14645	4.2	14
41	Virtual High-Throughput Screening To Identify Novel Activin Antagonists. <i>Journal of Medicinal Chemistry</i> , <b>2015</b> , 58, 5637-48	8.3	13
40	Precision therapeutic targeting of human cancer cell motility. <i>Nature Communications</i> , <b>2018</b> , 9, 2454	17.4	13

39	An unusual dianion equivalent from acylsilanes for the synthesis of substituted beta-keto esters. <i>Chemical Communications</i> , <b>2008</b> , 1926-8	5.8	13
38	A Chemical Probe Strategy for Interrogating Inhibitor Selectivity Across the MEK Kinase Family. <i>ACS Chemical Biology</i> , <b>2017</b> , 12, 1245-1256	4.9	12
37	Azaindole synthesis through dual activation catalysis with N-heterocyclic carbenes. <i>Chemical Communications</i> , <b>2016</b> , 52, 9283-6	5.8	12
36	Discovery of 1,3,4-oxidiazole scaffold compounds as inhibitors of superoxide dismutase expression. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2014</b> , 24, 1532-7	2.9	11
35	A Cooperative Ternary Catalysis System for Asymmetric Lactonizations of $\beta$ -Ketoesters. <i>Advanced Synthesis and Catalysis</i> , <b>2017</b> , 359, 3713-3719	5.6	11
34	A Biocatalytic Route to Highly Enantioenriched $\beta$ -Hydroxydioxinones. <i>Advanced Synthesis and Catalysis</i> , <b>2017</b> , 359, 1131-1137	5.6	10
33	Calcium(ii)-catalyzed enantioselective conjugate additions of amines. <i>Chemical Science</i> , <b>2018</b> , 9, 1634-1639	3.9	10
32	A Carbene Catalysis Strategy for the Synthesis of Protoilludane Natural Products. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 9996-9999	3.6	9
31	Combined Photoredox/Enzymatic C <sub>H</sub> Benzylic Hydroxylations. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 16642-16646	3.6	9
30	Synthesis of Enantioenriched $\beta$ -Disubstituted Cyclopentenones Catalyzed by N-Heterocyclic Carbenes. <i>Synthesis</i> , <b>2009</b> , 4, 687-690	2.9	9
29	Totalsynthese von $(R)$ -Bafilomycin A1: Anwendung von diastereoselektiver Crotylborierung und Methylketon-Aldolreaktionen. <i>Angewandte Chemie</i> , <b>1999</b> , 111, 1760-1762	3.6	9
28	Synthesis and Biological Evaluation of 3-Arylindazoles as Selective MEK4 Inhibitors. <i>ChemMedChem</i> , <b>2019</b> , 14, 615-620	3.7	8
27	Lewis base-promoted carbon-carbon $sp^3-sp^3$ coupling reactions of $\beta$ -allyl silylethers. <i>Chemical Science</i> , <b>2012</b> , 3, 1205	9.4	8
26	A Cooperative Hydrogen Bond Donor-Bridged Acid System for the Enantioselective Synthesis of Tetrahydropyrans. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 17471-17475	3.6	8
25	Conjugate Additions of Amines to Maleimides via Cooperative Catalysis. <i>Advanced Synthesis and Catalysis</i> , <b>2018</b> , 360, 1719-1725	5.6	7
24	Synthesis of $(R)$ -Okilactomycin by a Prins-Type Fragment-Assembly Strategy. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 6014-6017	3.6	7
23	Combined Photoredox and Carbene Catalysis for the Synthesis of $\beta$ -Aryloxy Ketones.. <i>Advanced Synthesis and Catalysis</i> , <b>2022</b> , 364, 518-524	5.6	7
22	Enantioselective Syntheses of Heteroyohimbine Natural Products: A Unified Approach through Cooperative Catalysis. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 7004-7008	3.6	6

21	Mechanism and origins of selectivity in the enantioselective oxa-Pictet-Spengler reaction: a cooperative catalytic complex from a hydrogen bond donor and chiral phosphoric acid. <i>Chemical Science</i> , <b>2020</b> , 11, 8736-8743	9.4	6
20	A Sequential Umpolung/Enzymatic Dynamic Kinetic Resolution Strategy for the Synthesis of $\beta$ -Lactones. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 5794-5798	4.8	5
19	Radical coupling of $\alpha$ -ketoesters and amides promoted by Brønsted/Lewis acids. <i>Green Synthesis and Catalysis</i> , <b>2020</b> , 1, 70-74	9.3	5
18	Non-Classical RMEKs: A review of MEK3-7 inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2020</b> , 30, 127203	2.9	4
17	Carbene Catalysis: Beyond the Benzoin and Stetter Reactions. <i>Topics in Organometallic Chemistry</i> , <b>2012</b> , 233-259	0.6	4
16	Targeted Covalent Inhibition of Telomerase. <i>ACS Chemical Biology</i> , <b>2020</b> , 15, 706-717	4.9	4
15	Photocatalytic acyl azolium-promoted alkoxyacylation of trifluoroborates. <i>Tetrahedron</i> , <b>2021</b> , 92,	2.4	4
14	Modeling MEK4 Kinase Inhibitors through Perturbed Electrostatic Potential Charges. <i>Journal of Chemical Information and Modeling</i> , <b>2019</b> , 59, 4460-4466	6.1	3
13	Development of Ferrocene-Based Planar Chiral Imidazopyridinium Salts for Catalysis. <i>Organometallics</i> , <b>2020</b> , 39, 2705-2712	3.8	3
12	Intermolecular Cross-Acyloin Reactions by Fluoride-Promoted Additions of O-Silyl Thiazolium Carbinols. <i>Synlett</i> , <b>2009</b> , 2009, 377-383	2.2	3
11	Synthesis of Cyclohexanones by a Tandem Photocatalyzed Annulation.. <i>Journal of the American Chemical Society</i> , <b>2022</b> ,	16.4	3
10	Light-Driven Carbene Catalysis for the Synthesis of Aliphatic and $\beta$ -Amino Ketones. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 18069-18075	3.6	2
9	Rational Design, Optimization, and Biological Evaluation of Novel MEK4 Inhibitors against Pancreatic Adenocarcinoma. <i>ACS Medicinal Chemistry Letters</i> , <b>2021</b> , 12, 1559-1567	4.3	2
8	Exploring Prins Strategies for the Synthesis of Okilactomycin. <i>Strategies and Tactics in Organic Synthesis</i> , <b>2013</b> , 9, 231-248	0.2	1
7	N-Heterocyclic Carbene Catalysis in Natural Product and Complex Target Synthesis <b>2019</b> , 345-404		1
6	Synthesis of Acylsilanes from Morpholine Amides. Synthesis of 1-(Dimethyl(phenyl)silyl)propan-1-One <b>2007</b> , 22-31		1
5	Discovery of Highly Potent Serotonin 5-HT Receptor Agonists Inspired by Heteroyohimbine Natural Products.. <i>ACS Medicinal Chemistry Letters</i> , <b>2022</b> , 13, 648-657	4.3	0
4	Front Cover Picture: A Biocatalytic Route to Highly Enantioenriched $\beta$ -Hydroxydioxinones (Adv. Synth. Catal. 7/2017). <i>Advanced Synthesis and Catalysis</i> , <b>2017</b> , 359, 1065-1065	5.6	

3 N-Heterocyclic Carbene-Catalyzed Aldol Desymmetrizations **2013**, 309-316

2 Innentitelbild: Lewis Acid Activated Synthesis of Highly Substituted Cyclopentanes by the N-Heterocyclic Carbene Catalyzed Addition of Homoenolate Equivalents to Unsaturated Ketoesters (Angew. Chem. 7/2011). *Angewandte Chemie*, **2011**, 123, 1484-1484 3.6

1 Inside Cover: Lewis Acid Activated Synthesis of Highly Substituted Cyclopentanes by the N-Heterocyclic Carbene Catalyzed Addition of Homoenolate Equivalents to Unsaturated Ketoesters (Angew. Chem. Int. Ed. 7/2011). *Angewandte Chemie - International Edition*, **2011**, 50, 1448-1448 16.4