

Andrei K Yudin

List of Publications by Citations

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210
papers

10,094
citations

46
h-index

94
g-index

236
ext. papers

11,200
ext. citations

10.2
avg, IF

6.79
L-index

#	Paper	IF	Citations
210	Perfluoroalkylation with Organosilicon Reagents. <i>Chemical Reviews</i> , 1997 , 97, 757-786	68.1	895
209	Contemporary strategies for peptide macrocyclization. <i>Nature Chemistry</i> , 2011 , 3, 509-24	17.6	729
208	Modified BINOL ligands in asymmetric catalysis. <i>Chemical Reviews</i> , 2003 , 103, 3155-212	68.1	720
207	Small heterocycles in multicomponent reactions. <i>Chemical Reviews</i> , 2014 , 114, 8323-59	68.1	641
206	Making carbon-nitrogen bonds in biological and chemical synthesis. <i>Nature Chemical Biology</i> , 2006 , 2, 284-7	11.7	566
205	Advances in nitrogen transfer reactions involving aziridines. <i>Accounts of Chemical Research</i> , 2006 , 39, 194-206	24.3	353
204	Macrocycles: lessons from the distant past, recent developments, and future directions. <i>Chemical Science</i> , 2015 , 6, 30-49	9.4	303
203	Chemoselectivity and the curious reactivity preferences of functional groups. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 262-310	16.4	223
202	Macrocyclization of linear peptides enabled by amphoteric molecules. <i>Journal of the American Chemical Society</i> , 2010 , 132, 2889-91	16.4	189
201	The versatility of boron in biological target engagement. <i>Nature Chemistry</i> , 2017 , 9, 731-742	17.6	154
200	Practical olefin aziridination with a broad substrate scope. <i>Journal of the American Chemical Society</i> , 2002 , 124, 530-1	16.4	134
199	A Simple and Efficient Method for the Preparation of Pyridine N-Oxides. <i>Journal of Organic Chemistry</i> , 1998 , 63, 1740-1741	4.2	130
198	Amphoteric Boryl aldehydes. <i>Journal of the American Chemical Society</i> , 2011 , 133, 13770-3	16.4	119
197	New insights into the mechanism of palladium-catalyzed allylic amination. <i>Journal of the American Chemical Society</i> , 2005 , 127, 17516-29	16.4	114
196	Oxadiazole grafts in peptide macrocycles. <i>Nature Chemistry</i> , 2016 , 8, 1105-1111	17.6	105
195	Preparation of and Fluoroalkylation with (Chlorodifluoromethyl)trimethylsilane, Difluorobis(trimethylsilyl)methane, and 1,1,2,2-Tetrafluoro-1,2-bis(trimethylsilyl)ethane. <i>Journal of the American Chemical Society</i> , 1997 , 119, 1572-1581	16.4	99
194	Facile Preparation of Fluorine-containing Alkenes, Amides and Alcohols via the Electrophilic Fluorination of Alkenyl Boronic Acids and Trifluoroborates. <i>Synlett</i> , 1997 , 1997, 606-608	2.2	94

193	Readily available unprotected amino aldehydes. <i>Journal of the American Chemical Society</i> , 2006 , 128, 14772-3	16.4	91
192	Efficient epoxidation of alkenes with aqueous hydrogen peroxide catalyzed by methyltrioxorhenium and 3-cyanopyridine. <i>Journal of Organic Chemistry</i> , 2000 , 65, 8651-8	4.2	83
191	Ring-opening reactions of nonactivated aziridines catalyzed by tris(pentafluorophenyl)borane. <i>Journal of Organic Chemistry</i> , 2003 , 68, 5160-7	4.2	80
190	Air- and moisture-stable amphoteric molecules: enabling reagents in synthesis. <i>Accounts of Chemical Research</i> , 2014 , 47, 1029-40	24.3	76
189	Oxidative geminal functionalization of organoboron compounds. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11092-6	16.4	76
188	Chasing the proton culprit from palladium-catalyzed allylic amination. <i>Journal of the American Chemical Society</i> , 2007 , 129, 14172-3	16.4	74
187	Boroalkyl group migration provides a versatile entry into α -aminoboronic acid derivatives. <i>Journal of the American Chemical Society</i> , 2012 , 134, 9926-9	16.4	68
186	Boryl isocyanides enable facile preparation of bioactive boropeptides. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8411-5	16.4	68
185	Generation of highly enantioselective catalysts from the pseudoenantiomeric assembly of BINOL, F(8)BINOL, and Ti(OiPr)(4). <i>Journal of the American Chemical Society</i> , 2001 , 123, 3850-1	16.4	65
184	Unprotected vinyl aziridines: facile synthesis and cascade transformations. <i>Organic Letters</i> , 2010 , 12, 240-3	6.2	63
183	Condensation-Driven Assembly of Boron-Containing Bis(Heteroaryl) Motifs Using a Linchpin Approach. <i>Organic Letters</i> , 2015 , 17, 5594-7	6.2	62
182	F8BINOL, an electronically perturbed version of BINOL with remarkable configurational stability. <i>Organic Letters</i> , 2000 , 2, 41-4	6.2	62
181	Unusual selectivity of unprotected aziridines in palladium-catalyzed allylic amination enables facile preparation of branched aziridines. <i>Journal of the American Chemical Society</i> , 2004 , 126, 5086-7	16.4	60
180	Palladium-catalyzed ring-contraction and ring-expansion reactions of cyclic allyl amines. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 5924-6	16.4	59
179	Synthesis of multisubstituted pyridines. <i>Organic Letters</i> , 2013 , 15, 334-7	6.2	58
178	Boron-containing enamine and enamide linchpins in the synthesis of nitrogen heterocycles. <i>Journal of the American Chemical Society</i> , 2014 , 136, 17669-73	16.4	58
177	Synthesis of Aminoboronic Acid Derivatives from Amines and Amphoteric Boryl Carbonyl Compounds. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 12659-63	16.4	56
176	Design and development of cyclohexane-based P,N-ligands for transition metal catalysis. <i>Organic Letters</i> , 2002 , 4, 2597-600	6.2	56

- 175 Oxalyl Boronates Enable Modular Synthesis of Bioactive Imidazoles. *Angewandte Chemie - International Edition*, **2017**, 56, 6264-6267 16.4 54
- 174 Palladium-catalyzed oxidative activation of arylcyclopropanes. *Organic Letters*, **2006**, 8, 5829-32 6.2 54
- 173 Oxidative cycloamination of olefins with aziridines as a versatile route to saturated nitrogen-containing heterocycles. *Journal of the American Chemical Society*, **2003**, 125, 14242-3 16.4 53
- 172 Parallel electrosynthesis of alpha-alkoxycarbamates, alpha-alkoxyamides, and alpha-alkoxysulfonamides using the spatially addressable electrolysis platform (SAEP). *ACS Combinatorial Science*, **2000**, 2, 545-9 53
- 171 Amphoteric Boryl Aldehyde Linchpins in the Synthesis of Heterocycles. *ACS Catalysis*, **2015**, 5, 5373-5379 3.1 51
- 170 Conformational Control of Macrocycles by Remote Structural Modification. *Chemical Reviews*, **2019**, 119, 9724-9752 68.1 51
- 169 Chemoselective peptidomimetic ligation using thioacid peptides and aziridine templates. *Journal of the American Chemical Society*, **2010**, 132, 10986-7 16.4 51
- 168 Catalytic Asymmetric Epoxide Ring-opening Chemistry **2006**, 229-269 51
- 167 Development of electrochemical processes for nitrene generation and transfer. *Journal of Organic Chemistry*, **2005**, 70, 932-7 4.2 49
- 166 Exocyclic control of turn induction in macrocyclic peptide scaffolds. *Chemistry - A European Journal*, **2013**, 19, 17668-72 4.8 48
- 165 Borylcarbonyl compounds: from transient intermediates to robust building blocks. *Dalton Transactions*, **2014**, 43, 11434-51 4.3 46
- 164 N-arylation of aziridines. *Journal of Organic Chemistry*, **2003**, 68, 2045-7 4.2 45
- 163 Site-specific integration of amino acid fragments into cyclic peptides. *Journal of the American Chemical Society*, **2014**, 136, 3728-31 16.4 43
- 162 Synthesis of peptide macrocycles using unprotected amino aldehydes. *Nature Protocols*, **2010**, 5, 1813-22 8.8 43
- 161 Transition metal-catalyzed synthesis and reactivity of N-alkenyl aziridines. *Organic Letters*, **2005**, 7, 1161-4 4.2 43
- 160 Electrochemical imination of sulfoxides using N-aminophthalimide. *Organic Letters*, **2002**, 4, 1839-42 6.2 43
- 159 Development of the direct Suzuki-Miyaura cross-coupling of primary B-alkyl MIDA-boronates and aryl bromides. *Organic Letters*, **2014**, 16, 1338-41 6.2 42
- 158 Amphoteric amino aldehydes reroute the aza-Michael reaction. *Journal of the American Chemical Society*, **2009**, 131, 16404-6 16.4 42

157	Combinatorial electrochemistry. <i>Current Opinion in Chemical Biology</i> , 2001 , 5, 269-72	9.7	41
156	Stereocontrolled synthesis of 1,2- and 1,3-diamine building blocks from aziridine aldehyde dimers. <i>Journal of Organic Chemistry</i> , 2013 , 78, 11637-45	4.2	38
155	Stereoselective isomerisation of N-allyl aziridines into geometrically stable Z enamines by using rhodium hydride catalysis. <i>Chemistry - A European Journal</i> , 2008 , 14, 886-94	4.8	38
154	Highly regioselective transformation of alkenyl bromides into alpha-bromoaziridines and alpha-bromohydrazones. <i>Organic Letters</i> , 2006 , 8, 2011-4	6.2	38
153	Regioselective substitution of fluorine in F(8)BINOL as a versatile route to new ligands with axial chirality. <i>Organic Letters</i> , 2000 , 2, 3433-6	6.2	38
152	Synthesis of Chiral Amines Using α -Amino Aldehydes. <i>European Journal of Organic Chemistry</i> , 2008 , 2008, 5201-5213	3.2	37
151	Vinylepoxides in Organic Synthesis 2006 , 315-347		37
150	Trihalomethyl Cations and Their Superelectrophilic Activation1. <i>Journal of the American Chemical Society</i> , 1996 , 118, 1446-1451	16.4	37
149	Achieving control over the branched/linear selectivity in palladium-catalyzed allylic amination. <i>Journal of Organic Chemistry</i> , 2013 , 78, 1559-75	4.2	36
148	Synthesis of aminocyclobutanes through ring expansion of N-vinyl-beta-lactams. <i>Organic Letters</i> , 2009 , 11, 1281-4	6.2	36
147	Bis(trimethylsilyl) Peroxide Extends the Range of Oxorhenium Catalysts for Olefin Epoxidation. <i>Journal of the American Chemical Society</i> , 1997 , 119, 11536-11537	16.4	36
146	Aromatic fluorine as a versatile control element for the construction of molecules with helical chirality. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 7009-12	16.4	36
145	Passive Membrane Permeability of Macrocycles Can Be Controlled by Exocyclic Amide Bonds. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 5368-76	8.3	36
144	Amphoteric amino aldehydes enable rapid assembly of unprotected amino alcohols. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 4188-91	16.4	35
143	Oxidative Geminal Functionalization of Organoboron Compounds. <i>Angewandte Chemie</i> , 2012 , 124, 11254-11254	3.6	34
142	Conformational modulation of in vitro activity of cyclic RGD peptides via aziridine aldehyde-driven macrocyclization chemistry. <i>Bioconjugate Chemistry</i> , 2012 , 23, 1387-95	6.3	34
141	Solvatochromic reagents for multicomponent reactions and their utility in the development of cell-permeable macrocyclic peptide vectors. <i>Chemistry - A European Journal</i> , 2011 , 17, 12257-61	4.8	34
140	Heteroaryl Rings in Peptide Macrocycles. <i>Chemical Reviews</i> , 2019 , 119, 10032-10240	68.1	33

- 139 Synthesis of Previously Inaccessible Borylated Heterocycle Motifs Using Novel Boron-Containing Amphoteric Molecules. *Angewandte Chemie - International Edition*, **2015**, 54, 9038-41 16.4 33
- 138 New Approach to Rapid Generation and Screening of Diverse Catalytic Materials on Electrode Surfaces. *Journal of the American Chemical Society*, **2000**, 122, 11787-11790 16.4 33
- 137 Development of Endocyclic Control Elements for Peptide Macrocycles. *Journal of the American Chemical Society*, **2018**, 140, 8763-8770 16.4 32
- 136 Conformational study of 9-dehydro-9-trifluoromethyl cinchona alkaloids via ¹⁹F NMR spectroscopy: emergence of trifluoromethyl moiety as a conformational stabilizer and a probe. *Journal of the American Chemical Society*, **2011**, 133, 9992-5 16.4 32
- 135 Catalytic applications of F8BINOL: asymmetric oxidation of sulfides to sulfoxides. *Journal of Organometallic Chemistry*, **2000**, 603, 98-104 2.3 32
- 134 Aziridine Natural Products [Discovery, Biological Activity and Biosynthesis **2006**, 399-442 31
- 133 Cyclols Revisited: Facile Synthesis of Medium-Sized Cyclic Peptides. *Chemistry - A European Journal*, **2017**, 23, 13319-13322 4.8 30
- 132 Amine hemilability enables boron to mechanistically resemble either hydride or proton. *Nature Chemistry*, **2018**, 10, 1062-1070 17.6 29
- 131 Epimerization- and protecting-group-free synthesis of peptidomimetic conjugates from amphoteric amino aldehydes. *Journal of the American Chemical Society*, **2007**, 129, 14152-3 16.4 29
- 130 Metalated Epoxides and Aziridines in Synthesis **2006**, 145-184 28
- 129 A versatile scaffold for site-specific modification of cyclic tetrapeptides. *Organic Letters*, **2012**, 14, 2898-901 27
- 128 Overcoming the demons of protecting groups with amphoteric molecules. *Chemistry - A European Journal*, **2007**, 13, 6538-42 4.8 27
- 127 Solid-Phase Parallel Synthesis of Functionalised Medium-to-Large Cyclic Peptidomimetics through Three-Component Coupling Driven by Aziridine Aldehyde Dimers. *Chemistry - A European Journal*, **2015**, 21, 9249-55 4.8 26
- 126 Skeletal fusion of small heterocycles with amphoteric molecules. *Angewandte Chemie - International Edition*, **2011**, 50, 11798-802 16.4 26
- 125 Mechanistic investigation of aziridine aldehyde-driven peptide macrocyclization: the imidoanhydride pathway. *Chemical Science*, **2015**, 6, 5446-5455 9.4 25
- 124 Carboxyboronate: A Versatile C1 Building Block. *Angewandte Chemie - International Edition*, **2019**, 58, 15148-15153 16.4 25
- 123 A simple and efficient method for the preparation of pyridine-N-oxides II. *Tetrahedron Letters*, **1998**, 39, 761-764 2 25
- 122 Construction of three contiguous tertiary stereocenters from aziridines in one step. *Organic Letters*, **2007**, 9, 4677-80 6.2 25

121	Asymmetric Synthesis of Epoxides and Aziridines from Aldehydes and Imines 2006 , 1-35		25
120	Synthesis of Aziridines 2006 , 117-144		25
119	Strained enamines as versatile intermediates for stereocontrolled construction of nitrogen heterocycles. <i>Journal of Organic Chemistry</i> , 2006 , 71, 6067-73	4.2	25
118	Parallel electrosynthesis of 1,2-diamines. <i>ACS Combinatorial Science</i> , 2001 , 3, 554-8		25
117	Oxalyl Boronates Enable Modular Synthesis of Bioactive Imidazoles. <i>Angewandte Chemie</i> , 2017 , 129, 6360-6363	3.6	24
116	Disulfide-bridged peptide macrobicycles from nature. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 8768-79	3.9	24
115	Synthesis of β -Borylated Ketones by Regioselective Wacker Oxidation of Alkenylboronates. <i>Organic Letters</i> , 2018 , 20, 5300-5303	6.2	24
114	Combinatorial Synthesis of Peptidomimetics Using Digital Microfluidics. <i>Journal of Flow Chemistry</i> , 2012 , 2, 103-107	3.3	24
113	Bending rigid molecular rods: formation of oligoproline macrocycles. <i>Chemistry - A European Journal</i> , 2012 , 18, 15612-7	4.8	23
112	Role of reversible dimerization in reactions of amphoteric aziridine aldehydes. <i>Journal of Organic Chemistry</i> , 2012 , 77, 5613-23	4.2	23
111	Facile preparation of allyl amines and pyrazoles by hydrazinolysis of 2-ketoaziridines. <i>Tetrahedron Letters</i> , 2006 , 47, 255-259	2	23
110	Aziridine-derived iminophosphine ligands in palladium-catalyzed allylic substitution. <i>Journal of Organometallic Chemistry</i> , 2004 , 689, 3604-3611	2.3	23
109	Convenient and Safe Electrochemical Synthesis of (Trifluoromethyl)trimethylsilane 1a. <i>Synlett</i> , 1994 , 1994, 1057-1058	2.2	23
108	Epoxides in Complex Molecule Synthesis 2006 , 271-313		22
107	Facile synthesis of borofragments and their evaluation in activity-based protein profiling. <i>Chemical Communications</i> , 2015 , 51, 3608-11	5.8	21
106	Stereocontrolled disruption of the Ugi reaction toward the production of chiral piperazinones: substrate scope and process development. <i>Journal of Organic Chemistry</i> , 2014 , 79, 9948-57	4.2	21
105	Chemoselective palladium-catalyzed β -allylation of β -boryl aldehydes. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 7900-2	3.9	21
104	Preparation and catalytic applications of partially fluorinated binaphthol ligands. <i>Journal of Fluorine Chemistry</i> , 2004 , 125, 517-525	2.1	21

103	Access to Cyclic Amino Boronates via Rhodium-Catalyzed Functionalization of Alkyl MIDA Boronates. <i>Organic Letters</i> , 2015 , 17, 5764-7	6.2	20
102	Synthesis of Aminoboronic Acid Derivatives from Amines and Amphoteric Boryl Carbonyl Compounds. <i>Angewandte Chemie</i> , 2016 , 128, 12849-12853	3.6	20
101	Shifting the energy landscape of multicomponent reactions using aziridine aldehyde dimers: a mechanistic study. <i>Journal of Organic Chemistry</i> , 2014 , 79, 9465-71	4.2	20
100	Rhodium-catalyzed stereoselective formation of Z-enamines from allylaziridines. <i>Journal of the American Chemical Society</i> , 2006 , 128, 11754-5	16.4	20
99	De Novo Design of Boron-Based Peptidomimetics as Potent Inhibitors of Human ClpP in the Presence of Human ClpX. <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 6377-6390	8.3	19
98	Multicomponent mapping of boron chemotypes furnishes selective enzyme inhibitors. <i>Nature Communications</i> , 2017 , 8, 1760	17.4	19
97	Boryl Isocyanides Enable Facile Preparation of Bioactive Boro-peptides. <i>Angewandte Chemie</i> , 2013 , 125, 8569-8573	3.6	19
96	[18F]Fluoroamines via ring-opening of N-Cbz-2-methylaziridine with [18F]-fluoride. <i>Tetrahedron Letters</i> , 2009 , 50, 544-547	2	19
95	An improved radiosynthesis of the muscarinic M2 radiopharmaceutical, [18F]FP-TZTP. <i>Applied Radiation and Isotopes</i> , 2009 , 67, 611-6	1.7	19
94	Facile Preparation of (Trifluoromethyl)tributyltin and Transtrifluoromethylation of Disilyl Sulfides to the Corresponding Trifluoromethylsilanes ¹ . <i>Synlett</i> , 1996 , 1996, 151-153	2.2	19
93	Reaction of Vinyl Aziridines with Arynes: Synthesis of Benzazepines and Branched Allyl Fluorides. <i>Chemistry - A European Journal</i> , 2020 , 26, 1501-1505	4.8	19
92	Carboxyboronate: A Versatile C1 Building Block. <i>Angewandte Chemie</i> , 2019 , 131, 15292-15297	3.6	18
91	Synthesis of Previously Inaccessible Borylated Heterocycle Motifs Using Novel Boron-Containing Amphoteric Molecules. <i>Angewandte Chemie</i> , 2015 , 127, 9166-9169	3.6	18
90	Cycloaddition/Ring opening reaction sequences of N-alkenyl aziridines: influence of the aziridine nitrogen on stereoselectivity. <i>Organic Letters</i> , 2008 , 10, 57-60	6.2	18
89	3-Cyanoallyl boronates are versatile building blocks in the synthesis of polysubstituted thiophenes. <i>Chemical Science</i> , 2017 , 8, 4431-4436	9.4	17
88	Bicycle synthesis through peptide macrocyclization using aziridine aldehydes followed by late stage disulfide bond installation. <i>MedChemComm</i> , 2013 , 4, 1124-1128	5	17
87	Asymmetric Syntheses with Aziridinecarboxylate and Aziridinephosphonate Building Blocks 2006 , 73-115		17
86	Reversible covalent interactions of Baminoboronic acids with carbohydrate derivatives. <i>Chemical Communications</i> , 2017 , 53, 1809-1812	5.8	16

85	A DFT investigation into the origin of regioselectivity in palladium-catalyzed allylic amination. <i>Canadian Journal of Chemistry</i> , 2009 , 87, 54-62	0.9	16
84	Vinylaziridines in Organic Synthesis 2006 , 37-71		16
83	Achieving Skeletal Diversity in Peptide Macrocycles through The Use of Heterocyclic Grafts. <i>Chemistry - A European Journal</i> , 2018 , 24, 7074-7082	4.8	15
82	The reactivity and conformational control of cyclic tetrapeptides derived from aziridine-containing amino acids. <i>Chemical Science</i> , 2016 , 7, 6662-6668	9.4	15
81	Palladium Catalysis for Oxidative 1,2-Difunctionalization of Alkenes 2010 , 119-135		15
80	Preparation, NMR, and abInitio/IGLO Study of Trifluoromethyl-Substituted Carboxonium Ions ¹ . <i>Journal of Organic Chemistry</i> , 1996 , 61, 1934-1939	4.2	15
79	Modular Synthesis of β -Amino Boronate Peptidomimetics. <i>Journal of Organic Chemistry</i> , 2018 , 83, 7296-7302	4.02	14
78	A method for fabricating microfluidic electrochemical reactors. <i>Lab on A Chip</i> , 2009 , 9, 2395-7	7.2	14
77	Amphoteric Borylketenimines: Versatile Intermediates in the Synthesis of Borylated Heterocycles. <i>Chemistry - A European Journal</i> , 2017 , 23, 9711-9715	4.8	13
76	Predicting cyclic peptide chemical shifts using quantum mechanical calculations. <i>Tetrahedron</i> , 2014 , 70, 7655-7663	2.4	13
75	The Biosynthesis of Epoxides 2006 , 349-398		13
74	Epoxides and Aziridines in Click Chemistry 2006 , 443-477		13
73	p-Tolylsulfinyl amides: reagents for facile electrophilic functionalization of olefins. <i>Journal of Organic Chemistry</i> , 2004 , 69, 2584-7	4.2	13
72	Olefin epoxidation with bis(trimethylsilyl) peroxide catalyzed by inorganic oxorhenium derivatives. Controlled release of hydrogen peroxide. <i>Journal of Organic Chemistry</i> , 2001 , 66, 4713-8	4.2	13
71	Rational Design of Calpain Inhibitors Based on Calpastatin Peptidomimetics. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 5403-15	8.3	13
70	Solid-phase synthesis of piperazinones via disrupted Ugi condensation. <i>Organic Letters</i> , 2014 , 16, 4674-76.2		12
69	Preparation and reactivity of versatile alpha-amino ketones. <i>Journal of Organic Chemistry</i> , 2007 , 72, 1737-41	4.1	12
68	Convergent synthesis of aminomethylene peptidomimetics. <i>Nature Protocols</i> , 2012 , 7, 1327-34	18.8	11

67	Synthesis of highly substituted cyclobutane fused-ring systems from N-vinyl beta-lactams through a one-pot domino process. <i>Chemistry - A European Journal</i> , 2010 , 16, 4100-9	4.8	11
66	Synchronized Synthesis of Peptide-Based Macrocycles by Digital Microfluidics. <i>Angewandte Chemie</i> , 2010 , 122, 8807-8811	3.6	11
65	Synthesis of 3-aminoaspartic acid derivatives from glycine precursors. <i>Tetrahedron Letters</i> , 2003 , 44, 4865-4868	2	11
64	Heterocycles: Versatile control elements in bioactive macrocycles. <i>Bioorganic and Medicinal Chemistry</i> , 2018 , 26, 2774-2779	3.4	10
63	Macrocyclic templates for library synthesis of peptido-conjugates. <i>Methods in Molecular Biology</i> , 2015 , 1248, 67-80	1.4	10
62	Synthesis of Chiral Piperazinones Using Amphoteric Aziridine Aldehyde Dimers and Functionalized Isocyanides. <i>Journal of Organic Chemistry</i> , 2016 , 81, 5209-16	4.2	10
61	Conformationally stable peptide macrocycles assembled using the Petasis borono-Mannich reaction. <i>Chemical Communications</i> , 2019 , 55, 10567-10570	5.8	9
60	Recent advances in the synthesis of cyclic pseudopeptides. <i>Drug Discovery Today: Technologies</i> , 2017 , 26, 3-10	7.1	9
59	Aziridine-2-carboxaldehyde Dimers Undergo Homo-Ugi 4-Component-5-center Reactions. <i>Synthesis</i> , 2012 , 44, 2851-2858	2.9	9
58	Metal-catalyzed Synthesis of Epoxides 2006 , 185-228		9
57	Carboxyboronate as a Versatile In Situ CO Surrogate in Palladium-Catalyzed Carbonylative Transformations. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 4342-4349	16.4	9
56	Illuminating the dark conformational space of macrocycles using dominant rotors. <i>Nature Chemistry</i> , 2021 , 13, 218-225	17.6	9
55	Borylated reagents for multicomponent reactions. <i>Drug Discovery Today: Technologies</i> , 2018 , 29, 51-60	7.1	9
54	Twisted amide electrophiles enable cyclic peptide sequencing. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 7384-8	3.9	8
53	A Linchpin Synthesis of 6-Hydroxyceramides from Aziridine Aldehydes. <i>Organic Letters</i> , 2016 , 18, 6268-6271	6.7	8
52	The effect of backbone flexibility on site-selective modification of macrocycles. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 10230-10237	3.9	7
51	Borylated oximes: versatile building blocks for organic synthesis. <i>Chemical Communications</i> , 2017 , 53, 11237-11240	5.8	7
50	Oxadiazole-Containing Macrocyclic Peptides Potentiate Azole Activity against Pathogenic Species. <i>MSphere</i> , 2020 , 5,	5	7

49	Solid-phase synthesis, cyclization, and site-specific functionalization of aziridine-containing tetrapeptides. <i>Nature Protocols</i> , 2017 , 12, 1277-1287	18.8	6
48	A Study of Boratriazaroles: An Underdeveloped Class of Heterocycles. <i>Journal of Organic Chemistry</i> , 2016 , 81, 10444-10453	4.2	6
47	Skeletal Fusion of Small Heterocycles with Amphoteric Molecules. <i>Angewandte Chemie</i> , 2011 , 123, 12003-12006	3.6	6
46	Gold-Catalyzed Addition of Oxygen Nucleophiles to C=C Multiple Bonds 2010 , 463-492		6
45	Activation of Alkynylzinc Reagents by a Hemiaminal-Driven Catalytic Microenvironment. <i>European Journal of Organic Chemistry</i> , 2017 , 2017, 419-423	3.2	5
44	Efficient Preparation of β -Aminoboronic Acid Derivatives via Boroalkyl Group Migration. <i>Synthesis</i> , 2014 , 46, 445-454	2.9	5
43	Rhodium-Catalyzed C-H Aminations 2010 , 137-155		5
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