Varinder K Aggarwal

List of Publications by Year
in descending order

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375 papers	25,571 citations	4120 87 h-index	11288 136 g-index
452 all docs	452 docs citations	452 times ranked	9943 citing authors

#	Article	IF	Citations
1	Asymmetric Ylide Reactions:â€‰ Epoxidation, Cyclopropanation, Aziridination, Olefination, and Rearrangement. Chemical Reviews, 1997, 97, 2341-2372.	23.0	833
2	Photoinduced decarboxylative borylation of carboxylic acids. Science, 2017, 357, 283-286.	6.0	523
3	Catalytic, Asymmetric Sulfur Ylide-Mediated Epoxidation of Carbonyl Compounds:â€‰ Scope, Selectivity, and Applications in Synthesis. Accounts of Chemical Research, 2004, 37, 611-620.	7.6	466
4	Stereospecific functionalizations and transformations of secondary and tertiary boronic esters. Chemical Communications, 2017, 53, 5481-5494.	2.2	458
5	Chalcogenides as Organocatalysts. Chemical Reviews, 2007, 107, 5841-5883.	23.0	420
6	Enantiodivergent conversion of chiral secondary alcohols into tertiary alcohols. Nature, 2008, 456, 778-782.	13.7	395
7	Application of Chiral Sulfides to Catalytic Asymmetric Aziridination and Cyclopropanation with In Situ Generation of the Diazo Compound. Angewandte Chemie - International Edition, 2001, 40, 1433-1436.	7.2	357
8	Enantiospecific sp2â€“sp3 coupling of secondary and tertiary boronic esters. Nature Chemistry, 2014, 6, 584-589.	6.6	356
9	The Use of Tosylhydrazone Salts as a Safe Alternative for Handling Diazo Compounds and Their Applications in Organic Synthesis. European Journal of Organic Chemistry, 2005, 2005, 1479-1492.	1.2	350
10	Lithiationâ€“Borylation Methodology and Its Application in Synthesis. Accounts of Chemical Research, 2014, 47, 3174-3183.	7.6	333
11	Photoinduced Deaminative Borylation of Alkylamines. Journal of the American Chemical Society, 2018, 140, 10700-10704.	6.6	310
12	Stereospecific Couplings of Secondary and Tertiary Boronic Esters. Angewandte Chemie - International Edition, 2015, 54, 1082-1096.	7.2	276
13	A Novel One-Pot Method for the Preparation of Pyrazoles by 1,3-Dipolar Cycloadditions of Diazo Compounds Generated in Situ. Journal of Organic Chemistry, 2003, 68, 5381-5383.	1.7	258
14	Assembly-line synthesis of organic molecules with tailored shapes. Nature, 2014, 513, 183-188.	13.7	252
15	Catalystâ€Free Deaminative Functionalizations of Primary Amines by Photoinduced Singleâ€Electron Transfer. Angewandte Chemie - International Edition, 2019, 58, 5697-5701.	7.2	250
16	Asymmetric Synthesis of Secondary and Tertiary Boronic Esters. Angewandte Chemie - International Edition, 2017, 56, 11700-11733.	7.2	232
17	Reevaluation of the Mechanism of the Baylis-Hillman Reaction: Implications for Asymmetric Catalysis. Angewandte Chemie - International Edition, 2005, 44, 1706-1708.	7.2	225
18	Lithiated Carbamates: Chiral Carbenoids for Iterative Homologation of Boranes and Boronic Esters. Angewandte Chemie - International Edition, 2007, 46, 7491-7494.	7.2	225

#	ARTICLE	IF	CITATIONS
19	Correlation between pKaand Reactivity of Quinuclidine-Based Catalysts in the Baylisâ^'Hillman Reaction:Â Discovery of Quinuclidine as Optimum Catalyst Leading to Substantial Enhancement of Scope. Journal of Organic Chemistry, 2003, 68, 692-700.	1.7	215
20	Protodeboronation of Tertiary Boronic Esters: Asymmetric Synthesis of Tertiary Alkyl Stereogenic Centers. Journal of the American Chemical Society, 2010, 132, 17096-17098.	6.6	210
21	Mechanism of the Moritaâ^'Baylisâ^'Hillman Reaction:â€‰ A Computational Investigation. Journal of the American Chemical Society, 2007, 129, 15513-15525.	6.6	204
22	Metal- and Ligand-Accelerated Catalysis of the Baylisâ^'Hillman Reaction. Journal of Organic Chemistry, 1998, 63, 7183-7189.	1.7	202
23	Catalytic Asymmetric Synthesis of Epoxides from Aldehydes Using Sulfur Ylides with In Situ Generation of Diazocompounds. Angewandte Chemie - International Edition, 2001, 40, 1430-1433.	7.2	194
24	Unexpected side reactions of imidazolium-based ionic liquids in the base-catalysed Baylisâ€“Hillman reactionElectronic supplementary information (ESI) available: NMR data; details of conditions employed by Afonso and integrations and calculations. See http://www.rsc.org/suppdata/cc/b2/b203079a/. Chemical Communications, 2002, , 1612-1613.	2.2	194
25	Rate Acceleration of the Baylisâ^'Hillman Reaction in Polar Solvents (Water and Formamide). Dominant Role of Hydrogen Bonding, Not Hydrophobic Effects, Is Implicated. Journal of Organic Chemistry, 2002, 67, 510-514.	1.7	189
26	Enantioselective Construction of Quaternary Stereogenic Centers from Tertiary Boronic Esters: Methodology and Applications. Angewandte Chemie - International Edition, 2011, 50, 3760-3763.	7.2	189
27	Catalytic Asymmetric Nazarov Reactions Promoted by Chiral Lewis Acid Complexes. Organic Letters, 2003, 5, 5075-5078.	2.4	181
28	Merging Photoredox with 1,2-Metallate Rearrangements: The Photochemical Alkylation of Vinyl Boronate Complexes. Journal of the American Chemical Society, 2017, 139, 5736-5739.	6.6	180
29	A New Protocol for the In Situ Generation of Aromatic, Heteroaromatic, and Unsaturated Diazo Compounds and Its Application in Catalytic and Asymmetric Epoxidation of Carbonyl Compounds. Extensive Studies To Map Out Scope and Limitations, and Rationalization of Diastereo- and Enantioselectivities. Journal of the American Chemical Society, 2003, 125, 10926-10940.	6.6	179
30	Novel Catalytic and Asymmetric Process for Aziridination Mediated by Sulfur Ylides. Journal of Organic Chemistry, 1996, 61, 8368-8369.	1.7	174
31	Homologation and alkylation of boronic esters and boranes by 1,2â€metallate rearrangement of boron ate complexes. Chemical Record, 2009, 9, 24-39.	2.9	173
32	Ate Complexes of Secondary Boronic Esters as Chiral Organometallic-Type Nucleophiles for Asymmetric Synthesis. Journal of the American Chemical Society, 2011, 133, 16794-16797.	6.6	170
33	Generation of Phosphoranes Derived from Phosphites. A New Class of Phosphorus Ylides Leading to High E Selectivity with Semi-stabilizing Groups in Wittig Olefinations. Journal of the American Chemical Society, 2003, 125, 6034-6035.	6.6	168
34	Highly Enantioselective Synthesis of Tertiary Boronic Esters and their Stereospecific Conversion to other Functional Groups and Quaternary Stereocentres. Chemistry - A European Journal, 2011, 17, 13124-13132.	1.7	168
35	An Annulation Reaction for the Synthesis of Morpholines, Thiomorpholines, and Piperazines from Î²â€Heteroatom Amino Compounds and Vinyl Sulfonium Salts. Angewandte Chemie - International Edition, 2008, 47, 3784-3786.	7.2	165
36	Reactivity and Selectivity in the Wittig Reaction:Â A Computational Study. Journal of the American Chemical Society, 2006, 128, 2394-2409.	6.6	164

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37	Practical and Highly Selective Sulfur Ylide Mediated Asymmetric Epoxidations and Aziridinations Using an Inexpensive, Readily Available Chiral Sulfide. Applications to the Synthesis of Quinine and Quinidine. Journal of the American Chemical Society, 2010, 132, 1828-1830.	6.6	157
38	50 Years of Zweifel Olefination: A Transition-Metal-Free Coupling. Synthesis, 2017, 49, 3323-3336.	1.2	156
39	Application of the Lithiationâ˜Borylation Reaction to the Preparation of Enantioenriched Allylic Boron Reagents and Subsequent In Situ Conversion into 1,2,4-Trisubstituted Homoallylic Alcohols with Complete Control over All Elements of Stereochemistry. Journal of the American Chemical Society, 2010, 132, 4025-4028.	6.6	155
40	Carbopalladation of Câ€“C Ïƒ-bonds enabled by strained boronate complexes. Nature Chemistry, 2019, 11, 117-122.	6.6	140
41	Direct Asymmetric Epoxidation of Aldehydes Using Catalytic Amounts of Enantiomerically Pure Sulfides. Journal of the American Chemical Society, 1996, 118, 7004-7005.	6.6	139
42	The Use of Vinyl Sulfonium Salts in the Stereocontrolled Asymmetric Synthesis of Epoxide- and Aziridine-Fused Heterocycles: Application to the Synthesis of (â˜)-Balanol. Angewandte Chemie - International Edition, 2006, 45, 7066-7069.	7.2	138
43	Highly Enantioselective Synthesis of Glycidic Amides Using Camphor-Derived Sulfonium Salts. Mechanism and Applications in Synthesis. Journal of the American Chemical Society, 2006, 128, 2105-2114.	6.6	137
44	Unraveling the Mechanism of Epoxide Formation from Sulfur Ylides and Aldehydes. Journal of the American Chemical Society, 2002, 124, 5747-5756.	6.6	136
45	Enantioselective Î±-Arylation of Cyclohexanones with Diaryl Iodonium Salts: Application to the Synthesis of (â˜)-Epibatidine. Angewandte Chemie - International Edition, 2005, 44, 5516-5519.	7.2	134
46	Stereospecific Coupling of Boronic Esters with N-Heteroaromatic Compounds. Journal of the American Chemical Society, 2015, 137, 10958-10961.	6.6	131
47	Development of Enantiospecific Coupling of Secondary and Tertiary Boronic Esters with Aromatic Compounds. Journal of the American Chemical Society, 2016, 138, 9521-9532.	6.6	131
48	Full Chirality Transfer in the Conversion of Secondary Alcohols into Tertiary Boronic Esters and Alcohols Using Lithiationâ€“Borylation Reactions. Angewandte Chemie - International Edition, 2010, 49, 5142-5145.	7.2	130
49	Catalytic Asymmetric Epoxidation of Aldehydes. Optimization, Mechanism, and Discovery of Stereoelectronic Control Involving a Combination of Anomeric and Cieplak Effects in Sulfur Ylide Epoxidations with Chiral 1,3-Oxathianes. Journal of the American Chemical Society, 1998, 120, 8328-8339.	6.6	127
50	Toward Ideality: The Synthesis of (+)-Kalkitoxin and (+)-Hydroxyphthioceranic Acid by Assembly-Line Synthesis. Journal of the American Chemical Society, 2015, 137, 4398-4403.	6.6	127
51	Catalytic Cyclopropanation of Alkenes Using Diazo Compounds Generated in Situ. A Novel Route to 2-Arylcyclopropylamines. Organic Letters, 2001, 3, 2785-2788.	2.4	126
52	The complexity of catalysis: origins of enantio- and diastereocontrol in sulfur ylide mediated epoxidation reactions. Chemical Communications, 2003, , 2644.	2.2	125
53	Stereocontrolled organocatalytic synthesis of prostaglandin PGF2Î± in seven steps. Nature, 2012, 489, 278-281.	13.7	125
54	Metal-free photoinduced C(sp3)â€“H borylation of alkanes. Nature, 2020, 586, 714-719.	13.7	124

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55	Highly Diastereoselective and Enantiospecific Allylation of Ketones and Imines Using Borinic Esters: Contiguous Quaternary Stereogenic Centers. Angewandte Chemie - International Edition, 2014, 53, 10992-10996.	7.2	123
56	Sulfur-Ylide-Mediated Synthesis of Functionalized and Trisubstituted Epoxides with High Enantioselectivity; Application to the Synthesis of CDP-840. Angewandte Chemie - International Edition, 2003, 42, 3274-3278.	7.2	122
57	Asymmetric Hydroboration of 1,1â€Disubstituted Alkenes. Angewandte Chemie - International Edition, 2009, 48, 1896-1898.	7.2	122
58	Highly Diastereo- and Enantioselective Allylboration of Aldehydes using Î±-Substituted Allyl/Crotyl Pinacol Boronic Esters via in Situ Generated Borinic Esters. Journal of the American Chemical Society, 2013, 135, 5316-5319.	6.6	121
59	Synthesis of Functionalized Cyclopropanes from Carboxylic Acids by a Radical Additionâ€“Polar Cyclization Cascade. Angewandte Chemie - International Edition, 2018, 57, 15430-15434.	7.2	117
60	Palladiumâ€Mediated Annulation of Vinyl Aziridines with Michael Acceptors: Stereocontrolled Synthesis of Substituted Pyrrolidines and Its Application in a Formal Synthesis of (â^')â€Î±â€Kainic Acid. Angewandte Chemie - International Edition, 2011, 50, 6370-6374.	7.2	116
61	Visibleâ€Lightâ€Mediated Decarboxylative Radical Additions to Vinyl Boronic Esters: Rapid Access to Î³â€Amino Boronic Esters. Angewandte Chemie - International Edition, 2018, 57, 2155-2159.	7.2	112
62	Highly Enantioselective Darzens Reaction of a Camphor-Derived Sulfonium Amide to Give Glycidic Amides and Their Applications in Synthesis. Journal of the American Chemical Society, 2002, 124, 9964-9965.	6.6	110
63	Asymmetric Synthesis of Î±-Substituted Allyl Boranes and Their Application in the Synthesis of Iso-agatharesinol. Angewandte Chemie - International Edition, 2007, 46, 359-362.	7.2	109
64	Bromoethylsulfonium Saltâ”A More Effective Annulation Agent for the Synthesis of 6- and 7-Membered 1,4-Heterocyclic Compounds. Organic Letters, 2009, 11, 257-260.	2.4	108
65	Radical Addition to Strained Ïƒ-Bonds Enables the Stereocontrolled Synthesis of Cyclobutyl Boronic Esters. Journal of the American Chemical Society, 2019, 141, 9511-9515.	6.6	108
66	Highly Diastereoselective Aziridination of Imines with Trimethylsilyldiazomethane. Subsequent Silyl Substitution with Electrophiles, Ring Opening, and Metalation ofC-SilylaziridinesA Cornucopia of Highly Selective Transformations. Journal of Organic Chemistry, 2002, 67, 2335-2344.	1.7	107
67	Strain-Release-Driven Homologation of Boronic Esters: Application to the Modular Synthesis of Azetidines. Journal of the American Chemical Society, 2019, 141, 4573-4578.	6.6	107
68	Stereospecific 1,2â€Migrations of Boronate Complexes Induced by Electrophiles. Angewandte Chemie - International Edition, 2020, 59, 16859-16872.	7.2	106
69	Synergy of synthesis, computation and NMR reveals correct baulamycin structures. Nature, 2017, 547, 436-440.	13.7	104
70	Asymmetric Sulfur Ylide Mediated Aziridination:â€‰ Application in the Synthesis of the Side Chain of Taxol. Organic Letters, 2003, 5, 3987-3990.	2.4	103
71	On the Mechanism of Ylide-Mediated Cyclopropanations: Evidence for a Proton-Transfer Step and Its Effect on Stereoselectivity. Journal of the American Chemical Society, 2010, 132, 7626-7630.	6.6	103
72	Photoinduced Deoxygenative Borylations of Aliphatic Alcohols. Angewandte Chemie - International Edition, 2019, 58, 18830-18834.	7.2	103

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73	Practical and Highly Selective Sulfur Ylide-Mediated Asymmetric Epoxidations and Aziridinations Using a Cheap and Readily Available Chiral Sulfide: Extensive Studies To Map Out Scope, Limitations, and Rationalization of Diastereo- and Enantioselectivities. Journal of the American Chemical Society, 2013, 135, 11951-11966.	6.6	102
74	Enantioselective Rhodium(III)-Catalyzed Markovnikov Hydroboration of Unactivated Terminal Alkenes. Journal of the American Chemical Society, 2017, 139, 9148-9151.	6.6	101
75	Decarboxylative Conjunctive Crossâ€coupling of Vinyl Boronic Esters using Metallaphotoredox Catalysis. Angewandte Chemie - International Edition, 2020, 59, 4375-4379.	7.2	101
76	Novel Catalytic Cycle for the Synthesis of Epoxides from Aldehydes and Sulfur Ylides Mediated by Catalytic Quantities of Sulfides and Rh2(OAc)4. Journal of the American Chemical Society, 1994, 116, 5973-5974.	6.6	99
77	Catalytic cyclopropanation of electron deficient alkenes mediated by chiral and achiral sulfides: scope and limitations in reactions involving phenyldiazomethane and ethyl diazoacetate. Journal of the Chemical Society, Perkin Transactions 1, 2000, , 3267-3276.	1.3	99
78	Improved method for the conversion of pinacolboronic esters into trifluoroborate salts: facile synthesis of chiral secondary and tertiary trifluoroborates. Tetrahedron, 2009, 65, 9956-9960.	1.0	99
79	Palladium-Catalyzed Insertion of CO₂ into Vinylaziridines: New Route to 5-Vinyloxazolidinones. Organic Letters, 2011, 13, 3454-3457.	2.4	97
80	Synthesis of hydroxyphthioceranic acid using a traceless lithiationâ€“borylationâ€“protodeboronation strategy. Nature Chemistry, 2014, 6, 810-814.	6.6	97
81	Sc(OTf)3, an Efficient Catalyst for Formation and Deprotection of Geminal Diacetates (Acylals); Chemoselective Protection of Aldehydes in Presence of Ketones. Synlett, 1998, 1998, 849-850.	1.0	96
82	Photoredoxâ€Catalyzed Cyclobutane Synthesis by a Deboronative Radical Additionâ€“Polar Cyclization Cascade. Angewandte Chemie - International Edition, 2019, 58, 3870-3874.	7.2	96
83	trans-1,3-dithiane-1,3-dioxide; a chiral acyl anion equivalent. Enantioselective synthesis of Î±-hydroxy-carboxylic acids, esters, amides and ketones. Tetrahedron, 1997, 53, 16213-16228.	1.0	94
84	Epoxidation of Alkenes by Amine Catalyst Precursors:Â Implication of Aminium Ion and Radical Cation Intermediates. Journal of the American Chemical Society, 2000, 122, 8317-8318.	6.6	94
85	Enantioselective Syntheses of (+)-Sertraline and (+)-Indatraline Using Lithiation/Borylationâ€“Protodeboronation Methodology. Organic Letters, 2011, 13, 5740-5743.	2.4	94
86	Synthesis of Enantioenriched Tertiary Boronic Esters from Secondary Allylic Carbamates. Application to the Synthesis of C30 Botryococcene. Journal of the American Chemical Society, 2012, 134, 7570-7574.	6.6	94
87	Reactions of Iminium Ions with Michael Acceptors through a Moritaâ€“Baylisâ€“Hillman-Type Reaction: Enantiocontrol and Applications in Synthesis. Angewandte Chemie - International Edition, 2007, 46, 1893-1896.	7.2	92
88	New Insights in the Mechanism of Amine Catalyzed Epoxidation:Â Dual Role of Protonated Ammonium Salts as Both Phase Transfer Catalysts and Activators of Oxone. Journal of the American Chemical Society, 2003, 125, 7596-7601.	6.6	91
89	Use of alkyl 2,4,6-triisopropylbenzoates in the asymmetric homologation of challenging boronic esters. Chemical Communications, 2011, 47, 12592.	2.2	89
90	Toward an understanding of the factors responsible for the 1,2-migration of alkyl groups in borate complexes. Pure and Applied Chemistry, 2006, 78, 215-229.	0.9	88

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91	Stereocontrolled Synthesis of Carbon Chains Bearing Contiguous Methyl Groups by Iterative Boronic Ester Homologations: Application to the Total Synthesis of (+)â€Faranal. Angewandte Chemie - International Edition, 2009, 48, 6317-6319.	7.2	88
92	Diastereoselective Synthesis of Cyclopropane Amino Acids Using Diazo Compounds Generated in Situ. Journal of Organic Chemistry, 2003, 68, 9433-9440.	1.7	87
93	Synthesis of Enantioenriched Tertiary Boronic Esters by the Lithiation/Borylation of Secondary Alkyl Benzoates. Journal of the American Chemical Society, 2013, 135, 16054-16057.	6.6	87
94	On the Importance of Leaving Group Ability in Reactions of Ammonium, Oxonium, Phosphonium, and Sulfonium Ylides. Angewandte Chemie - International Edition, 2005, 44, 5468-5471.	7.2	86
95	Catalytic Asymmetric Epoxidation and Aziridination Mediated by Sulfur Ylides. Evolution of a Project. Synlett, 1998, 1998, 329-336.	1.0	85
96	Construction of Multiple, Contiguous Quaternary Stereocenters in Acyclic Molecules by Lithiation-Borylation. Journal of the American Chemical Society, 2014, 136, 17370-17373.	6.6	85
97	Scope and limitations in sulfur ylide mediated catalytic asymmetric aziridination of imines: use of phenyldiazomethane, diazoesters and diazoacetamidesâ€. Journal of the Chemical Society, Perkin Transactions 1, 2001, , 1635-1643.	1.3	84
98	Asymmetric Sulfonium Ylide Mediated Cyclopropanation: Stereocontrolled Synthesis of (+)-LY354740. Chemistry - A European Journal, 2006, 12, 568-575.	1.7	84
99	Asymmetric Synthesis of Allylsilanes by the Borylation of Lithiated Carbamates: Formal Total Synthesis of (â^')â€Decarestrictineâ€…D. Angewandte Chemie - International Edition, 2010, 49, 4264-4268.	7.2	84
100	Asymmetric Synthesis of Tertiary and Quaternary Allyl- and Crotylsilanes via the Borylation of Lithiated Carbamates. Organic Letters, 2011, 13, 1490-1493.	2.4	84
101	Synthesis of Enantioenriched Alkylfluorides by the Fluorination of Boronate Complexes. Journal of the American Chemical Society, 2015, 137, 10100-10103.	6.6	83
102	The use of enantiomerically pure N-sulfinimines in asymmetric Baylisâ€“Hillman reactions. Tetrahedron Letters, 2002, 43, 1577-1581.	0.7	81
103	1,2-Boron Shifts of Î²-Boryl Radicals Generated from Bis-boronic Esters Using Photoredox Catalysis. Journal of the American Chemical Society, 2019, 141, 14104-14109.	6.6	81
104	1,3â€Difunctionalizations of [1.1.1]Propellane via 1,2â€Metallate Rearrangements of Boronate Complexes. Angewandte Chemie - International Edition, 2020, 59, 3917-3921.	7.2	80
105	Complete Stereoretention in the Rhodiumâ€Catalyzed 1,2â€Addition of Chiral Secondary and Tertiary Alkyl Potassium Trifluoroborate Salts to Aldehydes. Angewandte Chemie - International Edition, 2009, 48, 6289-6292.	7.2	79
106	Enantiospecific, Regioselective Crossâ€Coupling Reactions of Secondary Allylic Boronic Esters. Chemistry - A European Journal, 2013, 19, 17698-17701.	1.7	78
107	A Concise Asymmetric Route to the Bridged Bicyclic Tropane Alkaloid Ferruginine Using Enyne Ring-Closing Metathesis. Organic Letters, 2004, 6, 1469-1471.	2.4	77
108	Synthesis of Functionalized Alkenes by a Transition-Metal-Free Zweifel Coupling. Organic Letters, 2017, 19, 2762-2765.	2.4	77

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109	Synthesis and Applications of Chiral Organoboranes Generated from Sulfonium Ylides. Journal of the American Chemical Society, 2005, 127, 1642-1643.	6.6	75
110	Synthesis of Highly Enantioenriched Câ€Tertiary Amines From Boronic Esters: Application to the Synthesis of Igmesine. Angewandte Chemie - International Edition, 2011, 50, 1080-1083.	7.2	75
111	Stereocontrolled Total Synthesis of (â^')â€Stemaphylline. Angewandte Chemie - International Edition, 2017, 56, 2127-2131.	7.2	75
112	Homologation of Boronic Esters with Lithiated Epoxides for the Stereocontrolled Synthesis of 1,2- and 1,3-Diols and 1,2,4-Triols. Organic Letters, 2009, 11, 165-168.	2.4	73
113	Enantioselective Synthesis and Crossâ€Coupling of Tertiary Propargylic Boronic Esters Using Lithiationâ€“Borylation of Propargylic Carbamates. Angewandte Chemie - International Edition, 2012, 51, 11795-11799.	7.2	73
114	Total Synthesis of (+)-Erogorgiaene Using Lithiationâ€“Borylation Methodology, and Stereoselective Synthesis of Each of Its Diastereoisomers. Journal of the American Chemical Society, 2011, 133, 16798-16801.	6.6	71
115	On the Origin of HighESelectivity in the Wittig Reaction of Stabilized Ylides:Â Importance of Dipoleâ^'Dipole Interactions. Journal of the American Chemical Society, 2005, 127, 13468-13469.	6.6	70
116	Iterative assembly line synthesis of polypropionates with full stereocontrol. Nature Chemistry, 2017, 9, 896-902.	6.6	70
117	Asymmetrische Synthese sekundÃrer und tertiÃrer BoronsÃureester. Angewandte Chemie, 2017, 129, 11860-11894.	1.6	70
118	Epoxy-Annulations by Reactions of Î±-Amido Ketones with Vinyl Sulfonium Salts. Reagent versus Substrate Control and Kinetic Resolution. Organic Letters, 2008, 10, 1501-1504.	2.4	69
119	Synthesis of 6- and 7-Membered N-Heterocycles Using Î±-Phenylvinylsulfonium Salts. Organic Letters, 2015, 17, 5044-5047.	2.4	69
120	Highly Selective Aziridination of Imines Using Trimethylsilyldiazomethane and Applications ofC-Silylaziridines in Synthesis. Organic Letters, 2000, 2, 4107-4110.	2.4	68
121	Stereodivergent Olefination of Enantioenriched Boronic Esters. Angewandte Chemie - International Edition, 2017, 56, 786-790.	7.2	68
122	Amidine-Promoted Addition of Chloroform to Carbonyl Compounds. Journal of Organic Chemistry, 2000, 65, 7211-7212.	1.7	67
123	Stereocontrolled Synthesis of Î²â€Amino Alcohols from Lithiated Aziridines and Boronic Esters. Angewandte Chemie - International Edition, 2009, 48, 1149-1152.	7.2	67
124	Diastereodivergent Synthesis of Trisubstituted Alkenes through Protodeboronation of Allylic Boronic Esters: Application to the Synthesis of the Californian Red Scale Beetle Pheromone. Angewandte Chemie - International Edition, 2012, 51, 12444-12448.	7.2	67
125	Enantiospecific Alkynylation of Alkylboronic Esters. Angewandte Chemie - International Edition, 2016, 55, 4270-4274.	7.2	66
126	Catalytic asymmetric cyclopropanation of electron deficient alkenes mediated by chiral sulfides. Chemical Communications, 1997, , 1785-1786.	2.2	64

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127	Asymmetric Sulfur Ylide Reactions with Boranes:â€‰ Scope and Limitations, Mechanism and Understanding. Journal of the American Chemical Society, 2007, 129, 14632-14639.	6.6	64
128	Selective uni- and bidirectional homologation of diborylmethane. Chemical Science, 2017, 8, 2898-2903.	3.7	64
129	Chiral bisfunctionalization of substrates: a powerful strategy for the asymmetric synthesis of C2 symmetric compounds and its application to the synthesis of enantiomerically pure trans-1,3-dithiane 1,3-dioxide. Journal of Organic Chemistry, 1992, 57, 6390-6391.	1.7	62
130	(1R,3R)-2-Methylene-1,3-dithiolane 1,3-dioxide: A highly reactive and selective chiral ketene equivalent.. Journal of Organic Chemistry, 1995, 60, 4962-4963.	1.7	62
131	A New Method for the Preparation of Silyl Enol Ethers from Carbonyl Compounds and (Trimethylsilyl)diazomethane in a Regiospecific and Highly Stereoselective Manner. Journal of the American Chemical Society, 2002, 124, 10300-10301.	6.6	62
132	Highly Diastereoselective Nitrone Cycloaddition onto a Chiral Ketene Equivalent:â€‰ Asymmetric Synthesis of Cispentacin. Organic Letters, 2002, 4, 1227-1229.	2.4	62
133	Application of furyl-stabilized sulfur ylides to a concise synthesis of 8a-epi-swainsonine. Chemical Communications, 2008, , 120-122.	2.2	60
134	BF3Â·OEt2and TMSOTf: A synergistic combination of Lewis acids. Chemical Communications, 2006, , 4434-4436.	2.2	59
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