

# Varinder K Aggarwal

## List of Publications by Citations

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374  
papers

20,147  
citations

78  
h-index

122  
g-index

452  
ext. papers

22,743  
ext. citations

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avg, IF

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L-index

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 374 | Asymmetric Ylide Reactions: Epoxidation, Cyclopropanation, Aziridination, Olefination, and Rearrangement. <i>Chemical Reviews</i> , <b>1997</b> , 97, 2341-2372   | 68.1 | 700       |
| 373 | Catalytic, asymmetric sulfur ylide-mediated epoxidation of carbonyl compounds: scope, selectivity, and applications in synthesis. <i>Accounts of Chemical Research</i> , <b>2004</b> , 37, 611-20   | 24.3 | 419       |
| 372 | Chalcogenides as organocatalysts. <i>Chemical Reviews</i> , <b>2007</b> , 107, 5841-83  | 68.1 | 378       |
| 371 | Photoinduced decarboxylative borylation of carboxylic acids. <i>Science</i> , <b>2017</b> , 357, 283-286  | 33.3 | 351       |
| 370 | Enantiodivergent conversion of chiral secondary alcohols into tertiary alcohols. <i>Nature</i> , <b>2008</b> , 456, 778-83  | 30.4 | 338       |
| 369 | Stereospecific functionalizations and transformations of secondary and tertiary boronic esters. <i>Chemical Communications</i> , <b>2017</b> , 53, 5481-5494  | 5.8  | 308       |
| 368 | The Use of Tosylhydrazone Salts as a Safe Alternative for Handling Diazo Compounds and Their Applications in Organic Synthesis. <i>European Journal of Organic Chemistry</i> , <b>2005</b> , 2005, 1479-1492  | 3.2  | 308       |
| 367 | Application of Chiral Sulfides to Catalytic Asymmetric Aziridination and Cyclopropanation with In Situ Generation of the Diazo Compound. <i>Angewandte Chemie - International Edition</i> , <b>2001</b> , 40, 1433-1436   | 16.4 | 303       |
| 366 | Enantiospecific sp <sup>2</sup> -sp <sup>3</sup> coupling of secondary and tertiary boronic esters. <i>Nature Chemistry</i> , <b>2014</b> , 6, 584-9  | 17.6 | 275       |
| 365 | A novel one-pot method for the preparation of pyrazoles by 1,3-dipolar cycloadditions of diazo compounds generated in situ. <i>Journal of Organic Chemistry</i> , <b>2003</b> , 68, 5381-3  | 4.2  | 228       |
| 364 | Photoinduced Deaminative Borylation of Alkylamines. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 10700-10704  | 16.4 | 226       |
| 363 | Lithiation-borylation methodology and its application in synthesis. <i>Accounts of Chemical Research</i> , <b>2014</b> , 47, 3174-83  | 24.3 | 222       |
| 362 | Reevaluation of the mechanism of the Baylis-Hillman reaction: implications for asymmetric catalysis. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 1706-8  | 16.4 | 212       |
| 361 | Stereospecific couplings of secondary and tertiary boronic esters. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 1082-96   | 16.4 | 211       |
| 360 | Correlation between pK <sub>a</sub> and reactivity of quinuclidine-based catalysts in the Baylis-Hillman reaction: discovery of quinuclidine as optimum catalyst leading to substantial enhancement of scope. <i>Journal of Organic Chemistry</i> , <b>2003</b> , 68, 692-700 | 4.2  | 199       |
| 359 | Lithiated carbamates: chiral carbenoids for iterative homologation of boranes and boronic esters. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 7491-4   | 16.4 | 191       |
| 358 | Assembly-line synthesis of organic molecules with tailored shapes. <i>Nature</i> , <b>2014</b> , 513, 183-8   | 50.4 | 187       |

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| 357 | Protodeboronation of tertiary boronic esters: asymmetric synthesis of tertiary alkyl stereogenic centers. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 17096-8  | 16.4 | 186 |
| 356 | Mechanism of the Morita-Baylis-Hillman reaction: a computational investigation. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 15513-25   | 16.4 | 175 |
| 355 | Metal- and Ligand-Accelerated Catalysis of the Baylis-Hillman Reaction. <i>Journal of Organic Chemistry</i> , <b>1998</b> , 63, 7183-7189   | 4.2  | 173 |
| 354 | Catalyst-Free Deaminative Functionalizations of Primary Amines by Photoinduced Single-Electron Transfer. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 5697-5701   | 16.4 | 170 |
| 353 | Unexpected side reactions of imidazolium-based ionic liquids in the base-catalysed Baylis-Hillman reaction. <i>Chemical Communications</i> , <b>2002</b> , 1612-3   | 5.8  | 170 |
| 352 | Rate acceleration of the Baylis-Hillman reaction in polar solvents (water and formamide). Dominant role of hydrogen bonding, not hydrophobic effects, is implicated. <i>Journal of Organic Chemistry</i> , <b>2002</b> , 67, 510-4  | 4.2  | 170 |
| 351 | Catalytic asymmetric Nazarov reactions promoted by chiral Lewis acid complexes. <i>Organic Letters</i> , <b>2003</b> , 5, 5075-8  | 6.2  | 162 |
| 350 | Asymmetric Synthesis of Secondary and Tertiary Boronic Esters. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 11700-11733   | 16.4 | 161 |
| 349 | Enantioselective construction of quaternary stereogenic centers from tertiary boronic esters: methodology and applications. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 3760-3   | 16.4 | 159 |
| 348 | 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. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 10926-40 | 16.4 | 158 |
| 347 | Catalytic Asymmetric Synthesis of Epoxides from Aldehydes Using Sulfur Ylides with In Situ Generation of Diazocompounds. <i>Angewandte Chemie - International Edition</i> , <b>2001</b> , 40, 1430-1433   | 16.4 | 157 |
| 346 | Reactivity and selectivity in the Wittig reaction: a computational study. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 2394-409   | 16.4 | 143 |
| 345 | Generation of phosphoranes derived from phosphites. A new class of phosphorus ylides leading to high E selectivity with semi-stabilizing groups in Wittig olefinations. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 6034-5   | 16.4 | 143 |
| 344 | Highly enantioselective synthesis of tertiary boronic esters and their stereospecific conversion to other functional groups and quaternary stereocentres. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 13124-32  | 4.8  | 142 |
| 343 | Homologation and alkylation of boronic esters and boranes by 1,2-metallate rearrangement of boronate complexes. <i>Chemical Record</i> , <b>2009</b> , 9, 24-39   | 6.6  | 138 |
| 342 | Merging Photoredox with 1,2-Metallate Rearrangements: The Photochemical Alkylation of Vinyl Boronate Complexes. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 5736-5739  | 16.4 | 137 |
| 341 | Application of the lithiation-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. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 4025-8   | 16.4 | 137 |
| 340 | Novel Catalytic and Asymmetric Process for Aziridination Mediated by Sulfur Ylides. <i>Journal of Organic Chemistry</i> , <b>1996</b> , 61, 8368-8369   | 4.2  | 137 |

- 339 An annulation reaction for the synthesis of morpholines, thiomorpholines, and piperazines from beta-heteroatom amino compounds and vinyl sulfonium salts. *Angewandte Chemie - International Edition*, **2008**, 47, 3784-6 16.4 134
- 338 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, 1828-30 16.4 129
- 337 Highly enantioselective synthesis of glycidic amides using camphor-derived sulfonium salts. Mechanism and applications in synthesis. *Journal of the American Chemical Society*, **2006**, 128, 2105-14 16.4 128
- 336 Unraveling the mechanism of epoxide formation from sulfur ylides and aldehydes. *Journal of the American Chemical Society*, **2002**, 124, 5747-56 16.4 126
- 335 Ate complexes of secondary boronic esters as chiral organometallic-type nucleophiles for asymmetric synthesis. *Journal of the American Chemical Society*, **2011**, 133, 16794-7 16.4 123
- 334 The use of vinyl sulfonium salts in the stereocontrolled asymmetric synthesis of epoxide- and aziridine-fused heterocycles: application to the synthesis of (-)-balanol. *Angewandte Chemie - International Edition*, **2006**, 45, 7066-9 16.4 123
- 333 Enantioselective alpha-arylation of cyclohexanones with diaryl iodonium salts: application to the synthesis of (-)-epibatidine. *Angewandte Chemie - International Edition*, **2005**, 44, 5516-9 16.4 120
- 332 Full chirality transfer in the conversion of secondary alcohols into tertiary boronic esters and alcohols using lithiation-borylation reactions. *Angewandte Chemie - International Edition*, **2010**, 49, 5142-5 16.4 115
- 331 The complexity of catalysis: origins of enantio- and diastereocontrol in sulfur ylide mediated epoxidation reactions. *Chemical Communications*, **2003**, 2644-51 5.8 113
- 330 Direct Asymmetric Epoxidation of Aldehydes Using Catalytic Amounts of Enantiomerically Pure Sulfides. *Journal of the American Chemical Society*, **1996**, 118, 7004-7005 16.4 113
- 329 Highly diastereoselective and enantiospecific allylation of ketones and imines using borinic esters: contiguous quaternary stereogenic centers. *Angewandte Chemie - International Edition*, **2014**, 53, 10992-6 16.4 108
- 328 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, 3274-8 16.4 108
- 327 Catalytic cyclopropanation of alkenes using diazo compounds generated in situ. A novel route to 2-arylcylopropylamines. *Organic Letters*, **2001**, 3, 2785-8 6.2 108
- 326 Stereospecific Coupling of Boronic Esters with N-Heteroaromatic Compounds. *Journal of the American Chemical Society*, **2015**, 137, 10958-61 16.4 107
- 325 Asymmetric hydroboration of 1,1-disubstituted alkenes. *Angewandte Chemie - International Edition*, **2009**, 48, 1896-8 16.4 107
- 324 Palladium-mediated annulation of vinyl aziridines with Michael acceptors: stereocontrolled synthesis of substituted pyrrolidines and its application in a formal synthesis of (-)-kainic acid. *Angewandte Chemie - International Edition*, **2011**, 50, 6370-4 16.4 103
- 323 50 Years of Zweifel Olefination: A Transition-Metal-Free Coupling. *Synthesis*, **2017**, 49, 3323-3336 2.9 101
- 322 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 16.4 101

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| 321 | Toward ideality: the synthesis of (+)-kalkitoxin and (+)-hydroxyphthioceranic acid by assembly-line synthesis. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 4398-403   | 16.4 | 99 |
| 320 | Highly diastereo- and enantioselective allylboration of aldehydes using $\beta$ -substituted allyl/crotyl pinacol boronic esters via in situ generated borinic esters. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 5316-9   | 16.4 | 99 |
| 319 | Stereocontrolled organocatalytic synthesis of prostaglandin PGF <sub>2</sub> in seven steps. <i>Nature</i> , <b>2012</b> , 489, 278-81   | 50.4 | 97 |
| 318 | Asymmetric synthesis of alpha-substituted allyl boranes and their application in the synthesis of iso-agatharesinol. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 359-62   | 16.4 | 97 |
| 317 | Bromoethylsulfonium salt--a more effective annulation agent for the synthesis of 6- and 7-membered 1,4-heterocyclic compounds. <i>Organic Letters</i> , <b>2009</b> , 11, 257-60   | 6.2  | 96 |
| 316 | Highly diastereoselective aziridination of imines with trimethylsilyldiazomethane. Subsequent silyl substitution with electrophiles, ring opening, and metalation of C-silylaziridines--a cornucopia of highly selective transformations. <i>Journal of Organic Chemistry</i> , <b>2002</b> , 67, 2335-44                                      | 4.2  | 95 |
| 315 | On the mechanism of ylide-mediated cyclopropanations: evidence for a proton-transfer step and its effect on stereoselectivity. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 7626-30  | 16.4 | 94 |
| 314 | Improved method for the conversion of pinacolboronic esters into trifluoroborate salts: facile synthesis of chiral secondary and tertiary trifluoroborates. <i>Tetrahedron</i> , <b>2009</b> , 65, 9956-9960   | 2.4  | 93 |
| 313 | Highly enantioselective darzens reaction of a camphor-derived sulfonium amide to give glycidic amides and their applications in synthesis. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 9964-5   | 16.4 | 92 |
| 312 | Asymmetric sulfur ylide mediated aziridination: application in the synthesis of the side chain of taxol. <i>Organic Letters</i> , <b>2003</b> , 5, 3987-90   | 6.2  | 92 |
| 311 | Sc(OTf) <sub>3</sub> , an Efficient Catalyst for Formation and Deprotection of Geminal Diacetates (Acylals); Chemoselective Protection of Aldehydes in Presence of Ketones. <i>Synlett</i> , <b>1998</b> , 1998, 849-850   | 2.2  | 90 |
| 310 | Enantioselective syntheses of (+)-sertraline and (+)-indatraline using lithiation/borylation-protodeboronation methodology. <i>Organic Letters</i> , <b>2011</b> , 13, 5740-3  | 6.2  | 89 |
| 309 | Development of Enantiospecific Coupling of Secondary and Tertiary Boronic Esters with Aromatic Compounds. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 9521-32   | 16.4 | 89 |
| 308 | Palladium-catalyzed insertion of CO <sub>2</sub> into vinylaziridines: new route to 5-vinylloxazolidinones. <i>Organic Letters</i> , <b>2011</b> , 13, 3454-7  | 6.2  | 86 |
| 307 | Toward an understanding of the factors responsible for the 1,2-migration of alkyl groups in borate complexes. <i>Pure and Applied Chemistry</i> , <b>2006</b> , 78, 215-229  | 2.1  | 85 |
| 306 | Synthesis of enantioenriched tertiary boronic esters from secondary allylic carbamates. Application to the synthesis of C30 botryococcene. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 7570-4   | 16.4 | 84 |
| 305 | Catalytic cyclopropanation of electron deficient alkenes mediated by chiral and achiral sulfides: scope and limitations in reactions involving phenyldiazomethane and ethyl diazoacetate. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , <b>2000</b> , 3267-3276  |      | 84 |
| 304 | 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. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 11951-66 | 16.4 | 83 |

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| 303 | Carbopalladation of C-C Bonds enabled by strained boronate complexes. <i>Nature Chemistry</i> , <b>2019</b> , 11, 117-122  | 17.6 | 82 |
| 302 | Stereospezifische Kupplungen von sekundären und tertiären Boronspreestern. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 1096-1111   | 3.6  | 81 |
| 301 | Synergy of synthesis, computation and NMR reveals correct baulamycin structures. <i>Nature</i> , <b>2017</b> , 547, 436-440  | 50.4 | 80 |
| 300 | Reactions of iminium ions with Michael acceptors through a Morita-Baylis-Hillman-type reaction: enantiocontrol and applications in synthesis. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 1893-6                    | 16.4 | 79 |
| 299 | Verwendung chiraler Sulfide zur katalytischen asymmetrischen Aziridinierung und Cyclopropanierung mit in situ gebildeter Diazokomponente. <i>Angewandte Chemie</i> , <b>2001</b> , 113, 1482-1485  | 3.6  | 79 |
| 298 | Synthesis of hydroxyphthioceranic acid using a traceless lithiation-borylation-protodeboration strategy. <i>Nature Chemistry</i> , <b>2014</b> , 6, 810-4  | 17.6 | 78 |
| 297 | New insights in the mechanism of amine catalyzed epoxidation: dual role of protonated ammonium salts as both phase transfer catalysts and activators of oxone. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 7596-601 | 16.4 | 78 |
| 296 | The use of enantiomerically pure N-sulfinimines in asymmetric Baylis-Hillman reactions. <i>Tetrahedron Letters</i> , <b>2002</b> , 43, 1577-1581   | 2    | 76 |
| 295 | Epoxidation of Alkenes by Amine Catalyst Precursors: Implication of Aminium Ion and Radical Cation Intermediates. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 8317-8318   | 16.4 | 76 |
| 294 | Visible-Light-Mediated Decarboxylative Radical Additions to Vinyl Boronic Esters: Rapid Access to $\alpha$ -Amino Boronic Esters. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 2155-2159                             | 16.4 | 75 |
| 293 | Synthesis of enantioenriched tertiary boronic esters by the lithiation/borylation of secondary alkyl benzoates. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 16054-7   | 16.4 | 74 |
| 292 | Enantioselective Rhodium(III)-Catalyzed Markovnikov Hydroboration of Unactivated Terminal Alkenes. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 9148-9151  | 16.4 | 74 |
| 291 | Use of alkyl 2,4,6-triisopropylbenzoates in the asymmetric homologation of challenging boronic esters. <i>Chemical Communications</i> , <b>2011</b> , 47, 12592-4  | 5.8  | 74 |
| 290 | Asymmetric synthesis of allylsilanes by the borylation of lithiated carbamates: formal total synthesis of (-)-decastrictine D. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 4264-8                                   | 16.4 | 74 |
| 289 | Asymmetric sulfonium ylide mediated cyclopropanation: stereocontrolled synthesis of (+)-LY354740. <i>Chemistry - A European Journal</i> , <b>2005</b> , 12, 568-75   | 4.8  | 74 |
| 288 | A concise asymmetric route to the bridged bicyclic tropane alkaloid ferruginine using enyne ring-closing metathesis. <i>Organic Letters</i> , <b>2004</b> , 6, 1469-71   | 6.2  | 74 |
| 287 | Catalytic Asymmetric Epoxidation and Aziridination Mediated by Sulfur Ylides. Evolution of a Project. <i>Synlett</i> , <b>1998</b> , 1998, 329-336   | 2.2  | 74 |
| 286 | Diastereoselective synthesis of cyclopropane amino acids using diazo compounds generated in situ. <i>Journal of Organic Chemistry</i> , <b>2003</b> , 68, 9433-40  | 4.2  | 72 |

- 285 Novel Catalytic Cycle for the Synthesis of Epoxides from Aldehydes and Sulfur Ylides Mediated by Catalytic Quantities of Sulfides and Rh<sub>2</sub>(OAc)<sub>4</sub>. *Journal of the American Chemical Society*, **1994**, 116, 5973-5974<sup>16.4</sup> 72
- 284 Asymmetric synthesis of tertiary and quaternary allyl- and crotylsilanes via the borylation of lithiated carbamates. *Organic Letters*, **2011**, 13, 1490-3 6.2 71
- 283 Scope and limitations in sulfur ylide mediated catalytic asymmetric aziridination of imines: use of phenyldiazomethane, diazoesters and diazoacetamides. *Journal of the Chemical Society, Perkin Transactions 1*, **2001**, 1635-1643 71
- 282 Complete stereoretention in the rhodium-catalyzed 1,2-addition of chiral secondary and tertiary alkyl potassium trifluoroborate salts to aldehydes. *Angewandte Chemie - International Edition*, **2009**, 48, 6289-92 16.4 70
- 281 Stereocontrolled synthesis of carbon chains bearing contiguous methyl groups by iterative boronic ester homologations: application to the total synthesis of (+)-faranal. *Angewandte Chemie - International Edition*, **2009**, 48, 6317-9 16.4 69
- 280 Enantiospecific, regioselective cross-coupling reactions of secondary allylic boronic esters. *Chemistry - A European Journal*, **2013**, 19, 17698-701 4.8 68
- 279 Construction of multiple, contiguous quaternary stereocenters in acyclic molecules by lithiation-borylation. *Journal of the American Chemical Society*, **2014**, 136, 17370-3 16.4 67
- 278 On the importance of leaving group ability in reactions of ammonium, oxonium, phosphonium, and sulfonium ylides. *Angewandte Chemie - International Edition*, **2005**, 44, 5468-71 16.4 67
- 277 Synthesis of Functionalized Cyclopropanes from Carboxylic Acids by a Radical Addition-Polar Cyclization Cascade. *Angewandte Chemie - International Edition*, **2018**, 57, 15430-15434 16.4 67
- 276 Synthesis of highly enantioenriched C-tertiary amines from boronic esters: application to the synthesis of igmesine. *Angewandte Chemie - International Edition*, **2011**, 50, 1080-3 16.4 66
- 275 On the origin of high E selectivity in the Wittig reaction of stabilized ylides: importance of dipole-dipole interactions. *Journal of the American Chemical Society*, **2005**, 127, 13468-9 16.4 66
- 274 Strain-Release-Driven Homologation of Boronic Esters: Application to the Modular Synthesis of Azetidines. *Journal of the American Chemical Society*, **2019**, 141, 4573-4578 16.4 65
- 273 Enantioselective Construction of Quaternary Stereogenic Centers from Tertiary Boronic Esters: Methodology and Applications. *Angewandte Chemie*, **2011**, 123, 3844-3847 3.6 65
- 272 Epoxy-annulations by reactions of alpha-amido ketones with vinyl sulfonium salts. Reagent versus substrate control and kinetic resolution. *Organic Letters*, **2008**, 10, 1501-4 6.2 65
- 271 Total synthesis of (+)-erogorgiaene using lithiation-borylation methodology, and stereoselective synthesis of each of its diastereoisomers. *Journal of the American Chemical Society*, **2011**, 133, 16798-801<sup>16.4</sup> 64
- 270 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, 165-8 6.2 63
- 269 Amidine-promoted addition of chloroform to carbonyl compounds. *Journal of Organic Chemistry*, **2000**, 65, 7211-2 4.2 62
- 268 Asymmetrische Synthese sekundärer und tertiärer Boronsäureester. *Angewandte Chemie*, **2017**, 129, 11860-11894 3.6 61

- 267 Enantioselective synthesis and cross-coupling of tertiary propargylic boronic esters using lithiation-borylation of propargylic carbamates. *Angewandte Chemie - International Edition*, **2012**, 51, 11795-9 16.4 61
- 266 Radical Addition to Strained  $\pi$ Bonds Enables the Stereocontrolled Synthesis of Cyclobutyl Boronic Esters. *Journal of the American Chemical Society*, **2019**, 141, 9511-9515 16.4 60
- 265 Synthesis of Enantioenriched Alkylfluorides by the Fluorination of Boronate Complexes. *Journal of the American Chemical Society*, **2015**, 137, 10100-3 16.4 60
- 264 Synthesis and applications of chiral organoboranes generated from sulfonium ylides. *Journal of the American Chemical Society*, **2005**, 127, 1642-3 16.4 60
- 263 Highly selective aziridination of imines using trimethylsilyldiazomethane and applications of C-silylaziridines in synthesis. *Organic Letters*, **2000**, 2, 4107-10 6.2 59
- 262 Decarboxylative Conjunctive Cross-coupling of Vinyl Boronic Esters using Metallaphotoredox Catalysis. *Angewandte Chemie - International Edition*, **2020**, 59, 4375-4379 16.4 58
- 261 Stereocontrolled Total Synthesis of (-)-Stemaphylline. *Angewandte Chemie - International Edition*, **2017**, 56, 2127-2131 16.4 57
- 260 Synthesis of 6- and 7-Membered N-Heterocycles Using  $\pi$ Phenylvinylsulfonium Salts. *Organic Letters*, **2015**, 17, 5044-7 6.2 56
- 259 Highly Diastereoselective and Enantiospecific Allylation of Ketones and Imines Using Boronic Esters: Contiguous Quaternary Stereogenic Centers. *Angewandte Chemie*, **2014**, 126, 11172-11176 3.6 55
- 258 Catalytic asymmetric cyclopropanation of electron deficient alkenes mediated by chiral sulfides. *Chemical Communications*, **1997**, 1785-1786 5.8 55
- 257 Application of furyl-stabilized sulfur ylides to a concise synthesis of 8 $\alpha$ -epi-swainsonine. *Chemical Communications*, **2008**, 120-2 5.8 55
- 256 Photoredox-Catalyzed Cyclobutane Synthesis by a Deboronative Radical Addition-Polar Cyclization Cascade. *Angewandte Chemie - International Edition*, **2019**, 58, 3870-3874 16.4 54
- 255 Stereospecific 1,2-Migrations of Boronate Complexes Induced by Electrophiles. *Angewandte Chemie - International Edition*, **2020**, 59, 16859-16872 16.4 54
- 254 Stereoselective synthesis of trans-beta-lactams by palladium-catalysed carbonylation of vinyl aziridines. *Chemical Communications*, **2010**, 46, 267-9 5.8 54
- 253 Asymmetric sulfur ylide reactions with boranes: scope and limitations, mechanism and understanding. *Journal of the American Chemical Society*, **2007**, 129, 14632-9 16.4 54
- 252 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, 12444-8 16.4 53
- 251 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, 10300-1 16.4 53
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