

Michael J Krische

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300
papers

18,339
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82
h-index

120
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343
ext. papers

20,087
ext. citations

12
avg, IF

7.33
L-index

#	Paper	IF	Citations
300	Interconversion of single and double helices formed from synthetic molecular strands. <i>Nature</i> , 2000 , 407, 720-3	50.4	612
299	Intermolecular Metal-Catalyzed Reductive Coupling of Dienes, Allenes, and Enynes with Carbonyl Compounds and Imines. <i>Chemical Reviews</i> , 2018 , 118, 6026-6052	68.1	284
298	Enantioselective C-H crotylation of primary alcohols via hydrohydroxyalkylation of butadiene. <i>Science</i> , 2012 , 336, 324-7	33.3	272
297	Catalytic carbonyl addition through transfer hydrogenation: a departure from preformed organometallic reagents. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 34-46	16.4	269
296	Catalytic enantioselective C-H functionalization of alcohols by redox-triggered carbonyl addition: borrowing hydrogen, returning carbon. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 9142-50	16.4	266
295	Enantiomerically enriched allylic alcohols and allylic amines via C-C bond-forming hydrogenation: asymmetric carbonyl and imine vinylation. <i>Accounts of Chemical Research</i> , 2007 , 40, 1394-401	24.3	244
294	Acyclic Quaternary Carbon Stereocenters via Enantioselective Transition Metal Catalysis. <i>Chemical Reviews</i> , 2017 , 117, 12564-12580	68.1	239
293	Enantioselective iridium-catalyzed carbonyl allylation from the alcohol or aldehyde oxidation level via transfer hydrogenative coupling of allyl acetate: departure from chirally modified allyl metal reagents in carbonyl addition. <i>Journal of the American Chemical Society</i> , 2008 , 130, 14891-9	16.4	232
292	Enantioselective reductive coupling of 1,3-enynes to heterocyclic aromatic aldehydes and ketones via rhodium-catalyzed asymmetric hydrogenation: mechanistic insight into the role of Brønsted acid additives. <i>Journal of the American Chemical Society</i> , 2006 , 128, 16448-9	16.4	230
291	Organocatalytic Michael cycloisomerization of bis(enones): the intramolecular Rauhut-Currier reaction. <i>Journal of the American Chemical Society</i> , 2002 , 124, 2402-3	16.4	223
290	Metal-catalyzed reductive coupling of olefin-derived nucleophiles: Reinventing carbonyl addition. <i>Science</i> , 2016 , 354,	33.3	222
289	Enantioselective iridium-catalyzed carbonyl allylation from the alcohol or aldehyde oxidation level using allyl acetate as an allyl metal surrogate. <i>Journal of the American Chemical Society</i> , 2008 , 130, 6340-1	16.4	206
288	Catalytic enone cycloallylation via concomitant activation of latent nucleophilic and electrophilic partners: merging organic and transition metal catalysis. <i>Journal of the American Chemical Society</i> , 2003 , 125, 7758-9	16.4	201
287	Catalytic intermolecular hydroacylation of C=C bonds in the absence of chelation assistance. <i>Chemical Science</i> , 2012 , 3, 2202	9.4	197
286	Iridium-catalysed direct C-C coupling of methanol and allenenes. <i>Nature Chemistry</i> , 2011 , 3, 287-90	17.6	185
285	Phosphine-catalyzed regiospecific allylic amination and dynamic kinetic resolution of Morita-Baylis-Hillman acetates. <i>Organic Letters</i> , 2004 , 6, 1337-9	6.2	179
284	Catalytic Enantioselective Carbonyl Allylation and Propargylation via Alcohol-Mediated Hydrogen Transfer: Merging the Chemistry of Grignard and Sabatier. <i>Accounts of Chemical Research</i> , 2017 , 50, 2371-2380	24.3	173

283	Diene hydroacylation from the alcohol or aldehyde oxidation level via ruthenium-catalyzed C-C bond-forming transfer hydrogenation: synthesis of beta,gamma-unsaturated ketones. <i>Journal of the American Chemical Society</i> , 2008 , 130, 14120-2	16.4	169
282	Intramolecular organocatalytic [3+2] dipolar cycloaddition: stereospecific cycloaddition and the total synthesis of (+/-)-hirsutene. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 5855-7	16.4	163
281	Hydrogen-mediated C-C bond formation: a broad new concept in catalytic C-C coupling. <i>Journal of Organic Chemistry</i> , 2007 , 72, 1063-72	4.2	161
280	Ruthenium-catalyzed C-C bond forming transfer hydrogenation: carbonyl allylation from the alcohol or aldehyde oxidation level employing acyclic 1,3-dienes as surrogates to preformed allyl metal reagents. <i>Journal of the American Chemical Society</i> , 2008 , 130, 6338-9	16.4	159
279	Regio- and stereoselective construction of gamma-butenolides through phosphine-catalyzed substitution of Morita-Baylis-Hillman acetates: an organocatalytic allylic alkylation. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 6689-91	16.4	157
278	Highly enantioselective direct reductive coupling of conjugated alkynes and alpha-ketoesters via rhodium-catalyzed asymmetric hydrogenation. <i>Journal of the American Chemical Society</i> , 2006 , 128, 718-9	16.4	155
277	Chiral-anion-dependent inversion of diastereo- and enantioselectivity in carbonyl crotylation via ruthenium-catalyzed butadiene hydrohydroxyalkylation. <i>Journal of the American Chemical Society</i> , 2012 , 134, 20628-31	16.4	154
276	Alkynes as synthetic equivalents to stabilized Wittig reagents: intra- and intermolecular carbonyl olefinations catalyzed by Ag(I), BF ₃ , and HBF ₄ . <i>Organic Letters</i> , 2005 , 7, 2493-5	6.2	149
275	Catalytic C-C bond formation via capture of hydrogenation intermediates. <i>Accounts of Chemical Research</i> , 2004 , 37, 653-61	24.3	148
274	anti-Diastereo- and enantioselective carbonyl crotylation from the alcohol or aldehyde oxidation level employing a cyclometallated iridium catalyst: alpha-methyl allyl acetate as a surrogate to preformed crotylmetal reagents. <i>Journal of the American Chemical Society</i> , 2009 , 131, 2514-20	16.4	146
273	Enantioselective allylation, crotylation, and reverse prenylation of substituted isatins: iridium-catalyzed C-C bond-forming transfer hydrogenation. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 6313-6	16.4	145
272	1,n-glycols as dialdehyde equivalents in iridium-catalyzed enantioselective carbonyl allylation and iterative two-directional assembly of 1,3-polyols. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 5018-21	16.4	144
271	Hydrogen bonding in noncovalent synthesis: selectivity and the directed organization of molecular strands. <i>Tetrahedron</i> , 2001 , 57, 1139-1159	2.4	143
270	The Utilization of Persistent H-Bonding Motifs in the Self-Assembly of Supramolecular Architectures. <i>Structure and Bonding</i> , 2000 , 3-29	0.9	141
269	Enantioselective carbonyl reverse prenylation from the alcohol or aldehyde oxidation level employing 1,1-dimethylallene as the prenyl donor. <i>Journal of the American Chemical Society</i> , 2009 , 131, 6916-7	16.4	140
268	Asymmetric total synthesis of the iridoid beta-glucoside (+)-geniposide via phosphine organocatalysis. <i>Organic Letters</i> , 2009 , 11, 1849-51	6.2	140
267	Catalytic C-C coupling via transfer hydrogenation: reverse prenylation, crotylation, and allylation from the alcohol or aldehyde oxidation level. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15134-5	16.4	132
266	Diastereo- and enantioselective catalytic carbometallative aldol cycloreduction: tandem conjugate addition-aldol cyclization. <i>Journal of the American Chemical Society</i> , 2003 , 125, 1110-1	16.4	132

- 265 Hydrogen-mediated reductive coupling of conjugated alkynes with ethyl (N-Sulfinyl)iminoacetates: synthesis of unnatural alpha-amino acids via rhodium-catalyzed C-C bond forming hydrogenation. *Journal of the American Chemical Society*, **2005**, 127, 11269-76 16.4 131
- 264 Total synthesis of bryostatin 7 via C-C bond-forming hydrogenation. *Journal of the American Chemical Society*, **2011**, 133, 13876-9 16.4 129
- 263 Polyketide construction via hydrohydroxyalkylation and related alcohol C-H functionalizations: reinventing the chemistry of carbonyl addition. *Natural Product Reports*, **2014**, 31, 504-13 15.1 122
- 262 Enantioselective iridium-catalyzed imine vinylation: optically enriched allylic amines via alkyne-imine reductive coupling mediated by hydrogen. *Journal of the American Chemical Society*, **2007**, 129, 12644-5 16.4 118
- 261 Copper-catalyzed tandem conjugate addition-electrophilic trapping: ketones, esters, and nitriles as terminal electrophiles. *Journal of the American Chemical Society*, **2004**, 126, 4528-9 16.4 117
- 260 Diastereoselective cycloreductions and cycloadditions catalyzed by Co(dpm)(2)-silane (dpm = 2,2,6,6-tetramethylheptane-3,5-dionate): mechanism and partitioning of hydrometallative versus anion radical pathways. *Journal of the American Chemical Society*, **2002**, 124, 9448-53 16.4 116
- 259 Formation of C-C Bonds via Iridium-Catalyzed Hydrogenation and Transfer Hydrogenation. *Topics in Organometallic Chemistry*, **2011**, 34, 107-138 0.6 115
- 258 Enantioselective reductive coupling of acetylene to N-arylsulfonyl imines via rhodium catalyzed C-C bond-forming hydrogenation: (Z)-dienyl allylic amines. *Journal of the American Chemical Society*, **2007**, 129, 7242-3 16.4 115
- 257 Catalytic diastereoselective synthesis of diquinanes from acyclic precursors. *Journal of the American Chemical Society*, **2003**, 125, 3682-3 16.4 115
- 256 Direct vinylation of alcohols or aldehydes employing alkynes as vinyl donors: a ruthenium catalyzed C-C bond-forming transfer hydrogenation. *Journal of the American Chemical Society*, **2009**, 131, 2066-7 16.4 114
- 255 Iridium-catalyzed C-C coupling via transfer hydrogenation: carbonyl addition from the alcohol or aldehyde oxidation level employing 1,3-cyclohexadiene. *Organic Letters*, **2008**, 10, 1033-5 6.2 114
- 254 Desymmetrization of enone-diones via rhodium-catalyzed diastereo- and enantioselective tandem conjugate addition-aldol cyclization. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 5421-4 11.5 113
- 253 Template-induced and molecular recognition directed hierarchical generation of supramolecular assemblies from molecular strands. *Chemistry - A European Journal*, **2000**, 6, 1938-46 4.8 113
- 252 On Asymmetric Induction in Allylic Alkylation via Enantiotopic Facial Discrimination. *Journal of the American Chemical Society*, **1996**, 118, 6297-6298 16.4 113
- 251 Enantioselective Alcohol C-H Functionalization for Polyketide Construction: Unlocking Redox-Economy and Site-Selectivity for Ideal Chemical Synthesis. *Journal of the American Chemical Society*, **2016**, 138, 5467-78 16.4 112
- 250 Enantioselective iridium-catalyzed carbonyl allylation from the alcohol oxidation level via transfer hydrogenation: minimizing pre-activation for synthetic efficiency. *Chemical Communications*, **2009**, 7278-87 5.8 111
- 249 Diastereo- and enantioselective ruthenium-catalyzed hydrohydroxyalkylation of 2-silyl-butadienes: carbonyl syn-crotylation from the alcohol oxidation level. *Journal of the American Chemical Society*, **2011**, 133, 10582-6 16.4 109
- 248 Unlocking Hydrogenation for C-C Bond Formation: A Brief Overview of Enantioselective Methods. *Organic Process Research and Development*, **2011**, 15, 1236-1242 3.9 109

247	Katalytische enantioselektive C-H-Funktionalisierung von Alkoholen durch redoxgesteuerte Addition an die Carbonylgruppe: Wasserstoff-Ausleihe und Kohlenstoff-Rückgabe. <i>Angewandte Chemie</i> , 2014 , 126, 9294-9302	3.6	108
246	Catalytic carbonyl Z-dienylation via multicomponent reductive coupling of acetylene to aldehydes and alpha-ketoesters mediated by hydrogen: Carbonyl insertion into cationic rhodacyclopentadienes. <i>Journal of the American Chemical Society</i> , 2006 , 128, 16040-1	16.4	107
245	Reductive generation of enolates from enones using elemental hydrogen: catalytic C-C bond formation under hydrogenative conditions. <i>Journal of the American Chemical Society</i> , 2002 , 124, 15156-7	16.4	106
244	Paraformaldehyde and methanol as C1 feedstocks in metal-catalyzed C-C couplings of unsaturated reactants: beyond hydroformylation. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 3267-74	16.4	105
243	Highly enantioselective reductive cyclization of acetylenic aldehydes via rhodium catalyzed asymmetric hydrogenation. <i>Journal of the American Chemical Society</i> , 2006 , 128, 10674-5	16.4	104
242	Enantioselective Formation of All-Carbon Quaternary Centers via C-H Functionalization of Methanol: Iridium-Catalyzed Diene Hydrohydroxymethylation. <i>Journal of the American Chemical Society</i> , 2016 , 138, 14210-14213	16.4	102
241	Formation of C-C bonds via ruthenium-catalyzed transfer hydrogenation(). <i>Pure and Applied Chemistry</i> , 2012 , 84, 1729-1739	2.1	102
240	Alkynes as Electrophilic or Nucleophilic Allylmetal Precursors in Transition-Metal Catalysis. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 11312-11325	16.4	98
239	Diastereo- and enantioselective hydrogenative aldol coupling of vinyl ketones: design of effective monodentate TADDOL-like phosphonite ligands. <i>Journal of the American Chemical Society</i> , 2008 , 130, 2746-7	16.4	98
238	Total synthesis of (+)-roxaticin via C-C bond forming transfer hydrogenation: a departure from stoichiometric chiral reagents, auxiliaries, and premetalated nucleophiles in polyketide construction. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15559-61	16.4	97
237	Diene hydroaminomethylation ruthenium-catalyzed C-C bond forming transfer hydrogenation: beyond carbonylation. <i>Chemical Science</i> , 2016 , 7, 136-141	9.4	96
236	All-carbon quaternary centers via ruthenium-catalyzed hydroxymethylation of 2-substituted butadienes mediated by formaldehyde: beyond hydroformylation. <i>Journal of the American Chemical Society</i> , 2009 , 131, 10366-7	16.4	96
235	Diastereoselective cobalt-catalyzed aldol and Michael cycloreductions. <i>Journal of the American Chemical Society</i> , 2001 , 123, 5112-3	16.4	95
234	Ruthenium catalyzed C-C bond formation via transfer hydrogenation: branch-selective reductive coupling of allenes to paraformaldehyde and higher aldehydes. <i>Organic Letters</i> , 2008 , 10, 2705-8	6.2	94
233	Carbonyl propargylation from the alcohol or aldehyde oxidation level employing 1,3-enynes as surrogates to preformed allenylmetal reagents: a ruthenium-catalyzed C-C bond-forming transfer hydrogenation. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 5220-3	16.4	93
232	Palladium-Catalyzed Enyne Cycloisomerization Reaction in an Asymmetric Approach to the Picrotoxane Sesquiterpenes. 2. Second-Generation Total Syntheses of Corianin, Picrotoxinin, Picrotin, and Methyl Picrotoxate. <i>Journal of the American Chemical Society</i> , 1999 , 121, 6131-6141	16.4	92
231	Hydroaminomethylation Beyond Carbonylation: Allene-Imine Reductive Coupling by Ruthenium-Catalyzed Transfer Hydrogenation. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 8525-8	16.4	91
230	Catalytic crossed Michael cycloisomerization of thioenoates: total synthesis of (+/-)-ricciocarpin A. <i>Organic Letters</i> , 2003 , 5, 1737-40	6.2	91

- 229 Direct generation of acyclic polypropionate stereopolyads via double diastereo- and enantioselective iridium-catalyzed crotylation of 1,3-diols: beyond stepwise carbonyl addition in polyketide construction. *Journal of the American Chemical Society*, **2011**, 133, 12795-800 16.4 89
- 228 Enantioselective reductive cyclization of 1,6-enynes via rhodium-catalyzed asymmetric hydrogenation: C-C bond formation precedes hydrogen activation. *Journal of the American Chemical Society*, **2005**, 127, 6174-5 16.4 89
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- 226 Carbonyl allylation in the absence of preformed allyl metal reagents: reverse prenylation via iridium-catalyzed hydrogenative coupling of dimethylallene. *Journal of the American Chemical Society*, **2007**, 129, 12678-9 16.4 88
- 225 Chemo-, regio-, and enantioselective Pd-catalyzed allylic alkylation of indolocarbazole pro-aglycons. *Organic Letters*, **2002**, 4, 2005-8 6.2 87
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- 223 Rhodium-catalyzed reductive cyclization of 1,6-diynes and 1,6-enynes mediated by hydrogen: catalytic C-C bond formation via capture of hydrogenation intermediates. *Journal of the American Chemical Society*, **2004**, 126, 7875-80 16.4 84
- 222 Diastereo- and enantioselective iridium-catalyzed carbonyl propargylation from the alcohol or aldehyde oxidation level: 1,3-enynes as allenylmetal equivalents. *Angewandte Chemie - International Edition*, **2012**, 51, 2972-6 16.4 83
- 221 Hydroacylation of 2-Butyne from the Alcohol or Aldehyde Oxidation Level via Ruthenium Catalyzed C-C Bond Forming Transfer Hydrogenation. *Tetrahedron*, **2009**, 65, 5024-5029 2.4 83
- 220 Phosphine catalyzed alpha-arylation of enones and enals using hypervalent bismuth reagents: regioselective enolate arylation via nucleophilic catalysis. *Journal of the American Chemical Society*, **2004**, 126, 5350-1 16.4 83
- 219 First catalytic reductive coupling of 1,3-diynes to carbonyl partners: a new regio- and enantioselective C-C bond forming hydrogenation. *Journal of the American Chemical Society*, **2003**, 125, 11488-9 16.4 83
- 218 Regiodivergent reductive coupling of 2-substituted dienes to formaldehyde employing ruthenium or nickel catalyst: hydrohydroxymethylation via transfer hydrogenation. *Chemical Science*, **2013**, 4, 1876⁹⁻⁴ 82
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- 215 anti-Aminoallylation of aldehydes via ruthenium-catalyzed transfer hydrogenative coupling of sulfonamido allenes: 1,2-aminoalcohols. *Journal of the American Chemical Society*, **2009**, 131, 5054-5 16.4 80
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- 213 Duplex oligomers defined via covalent casting of a one-dimensional hydrogen-bonding motif. *Journal of the American Chemical Society*, **2002**, 124, 5074-83 16.4 80
- 212 Direct, redox-neutral prenylation and geranylation of secondary carbinol C-H bonds: C4-regioselectivity in ruthenium-catalyzed C-C couplings of dienes to β -hydroxy esters. *Journal of the American Chemical Society*, **2012**, 134, 15700-3 16.4 78

211	Enantioselective Formation of CF-Bearing All-Carbon Quaternary Stereocenters via C-H Functionalization of Methanol: Iridium Catalyzed Allene Hydrohydroxymethylation. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8114-8117	16.4	76
210	Diastereo- and enantioselective anti-alkoxyallylation employing allylic gem-dicarboxylates as allyl donors via iridium-catalyzed transfer hydrogenation. <i>Journal of the American Chemical Society</i> , 2010 , 132, 1760-1	16.4	76
209	Amplification of anti-diastereoselectivity via Curtin-Hammett effects in ruthenium-catalyzed hydrohydroxyalkylation of 1,1-disubstituted allenes: diastereoselective formation of all-carbon quaternary centers. <i>Journal of the American Chemical Society</i> , 2011 , 133, 1141-4	16.4	76
208	Allylic amines via iridium-catalyzed C-C bond forming hydrogenation: imine vinylation in the absence of stoichiometric byproducts or metallic reagents. <i>Journal of the American Chemical Society</i> , 2007 , 129, 8432-3	16.4	76
207	Asymmetric induction in hydrogen-mediated reductive aldol additions to alpha-amino aldehydes catalyzed by rhodium: selective formation of syn-stereotriads directed by intramolecular hydrogen-bonding. <i>Journal of the American Chemical Society</i> , 2006 , 128, 17051-6	16.4	76
206	Elongation of 1,3-polyols via iterative catalyst-directed carbonyl allylation from the alcohol oxidation level. <i>Organic Letters</i> , 2009 , 11, 3112-5	6.2	75
205	ESI-MS, DFT, and synthetic studies on the H(2)-mediated coupling of acetylene: insertion of C=X bonds into rhodacyclopentadienes and Brønsted acid cocatalyzed hydrogenolysis of organorhodium intermediates. <i>Journal of the American Chemical Society</i> , 2009 , 131, 16054-62	16.4	75
204	Formation of C-C Bonds via Ruthenium Catalyzed Transfer Hydrogenation: Carbonyl Addition from the Alcohol or Aldehyde Oxidation Level. <i>Chemistry Letters</i> , 2008 , 37, 1102-1107	1.7	75
203	Iridium-catalyzed C-C bond forming hydrogenation: direct regioselective reductive coupling of alkyl-substituted alkynes to activated ketones. <i>Journal of the American Chemical Society</i> , 2007 , 129, 280-1	16.4	75
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201	Ruthenium catalyzed hydrohydroxyalkylation of isoprene with heteroaromatic secondary alcohols: isolation and reversible formation of the putative metallacycle intermediate. <i>Journal of the American Chemical Society</i> , 2013 , 135, 16320-3	16.4	73
200	Enolate generation under hydrogenation conditions: catalytic aldol cycloreduction of keto-enones. <i>Organic Letters</i> , 2003 , 5, 1143-6	6.2	73
199	Successive C-C coupling of dienes to vicinally dioxygenated hydrocarbons: ruthenium catalyzed [4 + 2] cycloaddition across the diol, hydroxycarbonyl, or dione oxidation levels. <i>Journal of the American Chemical Society</i> , 2013 , 135, 3796-9	16.4	71
198	Enhanced anti-diastereo- and enantioselectivity in alcohol-mediated carbonyl crotylation using an isolable single component iridium catalyst. <i>Journal of Organic Chemistry</i> , 2011 , 76, 2350-4	4.2	70
197	A diastereoselective metal-catalyzed [2+2] cycloaddition of bis-enones. <i>Journal of the American Chemical Society</i> , 2001 , 123, 6716-7	16.4	68
196	Enantioselective reductive coupling of 1,3-enynes to glyoxalates mediated by hydrogen: asymmetric synthesis of beta,gamma-unsaturated alpha-hydroxy esters. <i>Organic Letters</i> , 2007 , 9, 3745-8	6.2	65
195	Catalytic addition of metallo-aldehyde enolates to ketones: a new C-C bond-forming hydrogenation. <i>Organic Letters</i> , 2004 , 6, 691-4	6.2	65
194	Chemically induced anion radical cycloadditions: intramolecular cyclobutanation of bis(enones) via homogeneous electron transfer. <i>Journal of the American Chemical Society</i> , 2004 , 126, 1634-5	16.4	65

- 193 Anion radical chain cycloaddition of tethered enones: intramolecular cyclobutanation and Diels-Alder cycloaddition. *Organic Letters*, **2002**, 4, 611-3 6.2 65
- 192 Ruthenium-BINAP Catalyzed Alcohol C-H tert-Prenylation via 1,3-Enyne Transfer Hydrogenation: Beyond Stoichiometric Carbanions in Enantioselective Carbonyl Propargylation. *Journal of the American Chemical Society*, **2016**, 138, 5238-41 16.4 65
- 191 Iridium-catalyzed hydrocarboxylation of 1,1-dimethylallene: byproduct-free reverse prenylation of carboxylic acids. *Organic Letters*, **2008**, 10, 513-5 6.2 64
- 190 Formation of C-C Bonds via Catalytic Hydrogenation and Transfer Hydrogenation: Vinylation, Allylation, and Enolate Addition of Carbonyl Compounds and Imines. *Aldrichimica Acta*, **2008**, 41, 95-104⁹ 6.4 64
- 189 Ruthenium-catalyzed hydrohydroxyalkylation of acrylates with diols and β -hydroxycarbonyl compounds to form spiro- and β -methylene- β -butyrolactones. *Journal of the American Chemical Society*, **2013**, 135, 17230-5 16.4 63
- 188 Protecting-group-free diastereoselective C-C coupling of 1,3-glycols and allyl acetate through site-selective primary alcohol dehydrogenation. *Angewandte Chemie - International Edition*, **2013**, 52, 3195-8 16.4 63
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- 185 Catalyst-directed diastereoselectivity in hydrogenative couplings of acetylene to alpha-chiral aldehydes: formal synthesis of all eight L-hexoses. *Organic Letters*, **2008**, 10, 4133-5 6.2 63
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- 183 Alkynes as allylmetal equivalents in redox-triggered C-C couplings to primary alcohols: (Z)-homoallylic alcohols via ruthenium-catalyzed propargyl C-H oxidative addition. *Journal of the American Chemical Society*, **2014**, 136, 11902-5 16.4 61
- 182 Enantioselective ruthenium-catalyzed carbonyl allylation via alkyne-alcohol C-C bond-forming transfer hydrogenation: allene hydrometalation vs oxidative coupling. *Journal of the American Chemical Society*, **2015**, 137, 3161-4 16.4 60
- 181 Ruthenium-catalyzed C-C coupling of amino alcohols with dienes via transfer hydrogenation: redox-triggered imine addition and related hydroaminoalkylations. *Journal of the American Chemical Society*, **2015**, 137, 1798-801 16.4 59
- 180 Iridium-catalyzed anti-diastereo- and enantioselective carbonyl (trimethylsilyl)allylation from the alcohol or aldehyde oxidation level. *Journal of the American Chemical Society*, **2010**, 132, 9153-6 16.4 59
- 179 Enantioselective conversion of primary alcohols to β -exo-methylene β -butyrolactones via iridium-catalyzed C-C bond-forming transfer hydrogenation: 2-(alkoxycarbonyl)allylation. *Journal of the American Chemical Society*, **2012**, 134, 11100-3 16.4 58
- 178 Feedstock Reagents in Metal-Catalyzed Carbonyl Reductive Coupling: Minimizing Preactivation for Efficiency in Target-Oriented Synthesis. *Angewandte Chemie - International Edition*, **2019**, 58, 14055-14064^{16.4} 57
- 177 Ruthenium catalyzed reductive coupling of paraformaldehyde to trifluoromethyl allenes: CF₃-bearing all-carbon quaternary centers. *Organic Letters*, **2013**, 15, 3790-3 6.2 55
- 176 Alpha-hydroxy esters via enantioselective hydrogen-mediated C-C coupling: regiocontrolled reactions of silyl-substituted 1,3-diyne. *Organic Letters*, **2006**, 8, 3873-6 6.2 53

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