Michael J Krische

List of Publications by Year
in descending order

288 papers	21,694 citations	4146 87 h-index	13771 129 g-index
343 all docs	343 docs citations	343 times ranked	8157 citing authors

#	Article	IF	Citations
1	Interconversion of single and double helices formed from synthetic molecular strands. Nature, 2000, 407, 720-723.	27.8	682
2	Intermolecular Metal-Catalyzed Reductive Coupling of Dienes, Allenes, and Enynes with Carbonyl Compounds and Imines. Chemical Reviews, 2018, 118, 6026-6052.	47.7	459
3	Acyclic Quaternary Carbon Stereocenters via Enantioselective Transition Metal Catalysis. Chemical Reviews, 2017, 117, 12564-12580.	47.7	348
4	Enantioselective C-H Crotylation of Primary Alcohols via Hydrohydroxyalkylation of Butadiene. Science, 2012, 336, 324-327.	12.6	320
5	Catalytic Enantioselective Cï£¿H Functionalization of Alcohols by Redoxâ€Triggered Carbonyl Addition: Borrowing Hydrogen, Returning Carbon. Angewandte Chemie - International Edition, 2014, 53, 9142-9150.	13.8	301
6	Metal-catalyzed reductive coupling of olefin-derived nucleophiles: Reinventing carbonyl addition. Science, 2016, 354, .	12.6	291
7	Catalytic Carbonyl Addition through Transfer Hydrogenation: A Departure from Preformed Organometallic Reagents. Angewandte Chemie - International Edition, 2009, 48, 34-46.	13.8	286
8	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. Journal of the American Chemical Society, 2008, 130, 14891-14899.	13.7	269
9	Enantiomerically Enriched Allylic Alcohols and Allylic Amines via Câ€“C Bond-Forming Hydrogenation: Asymmetric Carbonyl and Imine Vinylation. Accounts of Chemical Research, 2007, 40, 1394-1401.	15.6	267
10	Enantioselective Reductive Coupling of 1,3-Enynes to Heterocyclic Aromatic Aldehydes and Ketones via Rhodium-Catalyzed Asymmetric Hydrogenation:Â Mechanistic Insight into the Role of BrÃ¸nsted Acid Additives. Journal of the American Chemical Society, 2006, 128, 16448-16449.	13.7	248
11	Organocatalytic Michael Cycloisomerization of Bis(enones): The Intramolecular Rauhutâ^'Currier Reaction. Journal of the American Chemical Society, 2002, 124, 2402-2403.	13.7	241
12	Catalytic Enantioselective Carbonyl Allylation and Propargylation via Alcohol-Mediated Hydrogen Transfer: Merging the Chemistry of Grignard and Sabatier. Accounts of Chemical Research, 2017, 50, 2371-2380.	15.6	234
13	Catalytic Enone Cycloallylation via Concomitant Activation of Latent Nucleophilic and Electrophilic Partners:Â Merging Organic and Transition Metal Catalysis. Journal of the American Chemical Society, 2003, 125, 7758-7759.	13.7	226
14	Enantioselective Iridium-Catalyzed Carbonyl Allylation from the Alcohol or Aldehyde Oxidation Level Using Allyl Acetate as an Allyl Metal Surrogate. Journal of the American Chemical Society, 2008, 130, 6340-6341.	13.7	225
15	Catalytic intermolecular hydroacylation of Câ€“C Ï€-bonds in the absence of chelation assistance. Chemical Science, 2012, 3, 2202.	7.4	224
16	Iridium-catalysed direct Câ€“C coupling of methanol and allenes. Nature Chemistry, 2011, 3, 287-290.	13.6	218
17	Phosphine-Catalyzed Regiospecific Allylic Amination and Dynamic Kinetic Resolution of Moritaâ^'Baylisâ^'Hillman Acetates. Organic Letters, 2004, 6, 1337-1339.	4.6	187
18	Chiral-Anion-Dependent Inversion of Diastereo- and Enantioselectivity in Carbonyl Crotylation via Ruthenium-Catalyzed Butadiene Hydrohydroxyalkylation. Journal of the American Chemical Society, 2012, 134, 20628-20631.	13.7	187

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19	Diene Hydroacylation from the Alcohol or Aldehyde Oxidation Level via Ruthenium-Catalyzed Câ^'C Bond-Forming Transfer Hydrogenation: Synthesis of Î²,Î³-Unsaturated Ketones. Journal of the American Chemical Society, 2008, 130, 14120-14122.	13.7	185
20	Ruthenium-Catalyzed Câ^'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. Journal of the American Chemical Society, 2008, 130, 6338-6339.	13.7	182
21	Hydrogen bonding in noncovalent synthesis: selectivity and the directed organization of molecular strands. Tetrahedron, 2001, 57, 1139-1159.	1.9	172
22	Intramolecular Organocatalytic[3+2] Dipolar Cycloaddition: Stereospecific Cycloaddition and the Total Synthesis of (Â±)-Hirsutene. Angewandte Chemie - International Edition, 2003, 42, 5855-5857.	13.8	171
23	anti-Diastereo- and Enantioselective Carbonyl Crotylation from the Alcohol or Aldehyde Oxidation Level Employing a Cyclometallated Iridium Catalyst: Î±-Methyl Allyl Acetate as a Surrogate to Preformed Crotylmetal Reagents. Journal of the American Chemical Society, 2009, 131, 2514-2520.	13.7	170
24	Highly Enantioselective Direct Reductive Coupling of Conjugated Alkynes and Î±-Ketoesters via Rhodium-Catalyzed Asymmetric Hydrogenation. Journal of the American Chemical Society, 2006, 128, 718-719.	13.7	169
25	Catalytic Câ^'C Bond Formation via Capture of Hydrogenation Intermediates. Accounts of Chemical Research, 2004, 37, 653-661.	15.6	167
26	Hydrogen-Mediated Câ^'C Bond Formation:Â A Broad New Concept in Catalytic Câ^'C Coupling1. Journal of Organic Chemistry, 2007, 72, 1063-1072.	3.2	167
27	Regio- and Stereoselective Construction of ?-Butenolides through Phosphine-Catalyzed Substitution of Morita-Baylis-Hillman Acetates: An Organocatalytic Allylic Alkylation. Angewandte Chemie - International Edition, 2004, 43, 6689-6691.	13.8	166
28	Alkynes as Synthetic Equivalents to Stabilized Wittig Reagents:â€‰ Intra- and Intermolecular Carbonyl Olefinations Catalyzed by Ag(I), BF3, and HBF4. Organic Letters, 2005, 7, 2493-2495.	4.6	162
29	1,nâ€Glycols as Dialdehyde Equivalents in Iridiumâ€Catalyzed Enantioselective Carbonyl Allylation and Iterative Twoâ€Directional Assembly of 1,3â€Polyols. Angewandte Chemie - International Edition, 2009, 48, 5018-5021.	13.8	162
30	Enantioselective Allylation, Crotylation, and Reverse Prenylation of Substituted Isatins: Iridiumâ€Catalyzed Cï£¿C Bondâ€Forming Transfer Hydrogenation. Angewandte Chemie - International Edition, 2009, 48, 6313-6316.	13.8	160
31	Enantioselective Carbonyl Reverse Prenylation from the Alcohol or Aldehyde Oxidation Level Employing 1,1-Dimethylallene as the Prenyl Donor. Journal of the American Chemical Society, 2009, 131, 6916-6917.	13.7	158
32	Diastereo- and Enantioselective Catalytic Carbometallative Aldol Cycloreduction:Â Tandem Conjugate Additionâ^'Aldol Cyclization. Journal of the American Chemical Society, 2003, 125, 1110-1111.	13.7	153
33	Catalytic Câ^'C Coupling via Transfer Hydrogenation:â€‰ Reverse Prenylation, Crotylation, and Allylation from the Alcohol or Aldehyde Oxidation Level. Journal of the American Chemical Society, 2007, 129, 15134-15135.	13.7	153
34	Polyketide construction via hydrohydroxyalkylation and related alcohol Câ€“H functionalizations: reinventing the chemistry of carbonyl addition. Natural Product Reports, 2014, 31, 504.	10.3	149
35	The Utilization of Persistent H-Bonding Motifs in the Self-Assembly of Supramolecular Architectures. Structure and Bonding, 2000, , 3-29.	1.0	148
36	Hydrogen-Mediated Reductive Coupling of Conjugated Alkynes with Ethyl (N-Sulfinyl)iminoacetates:Â Synthesis of Unnatural Î±-Amino Acids via Rhodium-Catalyzed Câ^'C Bond Forming Hydrogenation. Journal of the American Chemical Society, 2005, 127, 11269-11276.	13.7	147

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37	Asymmetric Total Synthesis of the Iridoid Î²-Glucoside (+)-Geniposide via Phosphine Organocatalysis. Organic Letters, 2009, 11, 1849-1851.	4.6	144
38	Total Synthesis of Bryostatin 7 via Câ€“C Bond-Forming Hydrogenation. Journal of the American Chemical Society, 2011, 133, 13876-13879.	13.7	143
39	Enantioselective Alcohol Câ€“H Functionalization for Polyketide Construction: Unlocking Redox-Economy and Site-Selectivity for Ideal Chemical Synthesis. Journal of the American Chemical Society, 2016, 138, 5467-5478.	13.7	143
40	On Asymmetric Induction in Allylic Alkylation via Enantiotopic Facial Discrimination. Journal of the American Chemical Society, 1996, 118, 6297-6298.	13.7	135
41	Diastereoselective Cycloreductions and Cycloadditions Catalyzed by Co(dpm)2-Silane (dpm =) Tj ETQq1 1 0.784314 rgBT /Overlock 1 Radical Pathways. Journal of the American Chemical Society, 2002, 124, 9448-9453.	13.7	134
42	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, 10582-10586.	13.7	132
43	Template-Induced and Molecular Recognition Directed Hierarchical Generation of Supramolecular Assemblies from Molecular Strands. Chemistry - A European Journal, 2000, 6, 1938-1946.	3.3	131
44	Enantioselective Iridium-Catalyzed Imine Vinylation:â€‰ Optically Enriched Allylic Amines via Alkyneâ€'Imine Reductive Coupling Mediated by Hydrogen. Journal of the American Chemical Society, 2007, 129, 12644-12645.	13.7	131
45	Formation of Câ€“C Bonds via Iridium-Catalyzed Hydrogenation and Transfer Hydrogenation. Topics in Organometallic Chemistry, 2011, 34, 107-138.	0.7	131
46	Copper-Catalyzed Tandem Conjugate Additionâ€'Electrophilic Trapping:Â Ketones, Esters, and Nitriles as Terminal Electrophiles. Journal of the American Chemical Society, 2004, 126, 4528-4529.	13.7	128
47	Enantioselective Reductive Coupling of Acetylene toN-Arylsulfonyl Imines via Rhodium Catalyzed Câ€'C Bond-Forming Hydrogenation:Â (Z)-Dienyl Allylic Amines. Journal of the American Chemical Society, 2007, 129, 7242-7243.	13.7	128
48	Direct Vinylation of Alcohols or Aldehydes Employing Alkynes as Vinyl Donors: A Ruthenium Catalyzed Câ€'C Bond-Forming Transfer Hydrogenation. Journal of the American Chemical Society, 2009, 131, 2066-2067.	13.7	127
49	Catalytic Diastereoselective Synthesis of Diquinanes from Acyclic Precursors. Journal of the American Chemical Society, 2003, 125, 3682-3683.	13.7	126
50	Enantioselective Formation of All-Carbon Quaternary Centers via Câ€“H Functionalization of Methanol: Iridium-Catalyzed Diene Hydrohydroxymethylation. Journal of the American Chemical Society, 2016, 138, 14210-14213.	13.7	126
51	Paraformaldehyde and Methanol as C₁â€…Feedstocks in Metalâ€Catalyzed Cï¿¿C Couplings of Ïâ€Unsaturated Reactants: Beyond Hydroformylation. Angewandte Chemie - International Edition, 2015, 54, 3267-3274.	13.8	125
52	Asymmetric Catalysis Special Feature Part I: 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, 5421-5424.	7.1	123
53	Reductive Generation of Enolates from Enones Using Elemental Hydrogen:Â Catalytic Câ€'C Bond Formation under Hydrogenative Conditions. Journal of the American Chemical Society, 2002, 124, 15156-15157.	13.7	122
54	Iridium-Catalyzed Câ€'C Coupling via Transfer Hydrogenation:â€‰ Carbonyl Addition from the Alcohol or Aldehyde Oxidation Level Employing 1,3-Cyclohexadiene. Organic Letters, 2008, 10, 1033-1035.	4.6	122

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55	Total Synthesis of (+)-Roxaticin via Câ^'C Bond Forming Transfer Hydrogenation: A Departure from Stoichiometric Chiral Reagents, Auxiliaries, and Premetalated Nucleophiles in Polyketide Construction. Journal of the American Chemical Society, 2010, 132, 15559-15561.	13.7	122
56	Alkynes as Electrophilic or Nucleophilic Allylmetal Precursors in Transitionâ€Metal Catalysis. Angewandte Chemie - International Edition, 2017, 56, 11312-11325.	13.8	122
57	Catalytic CarbonylZ-Dienylation via Multicomponent Reductive Coupling of Acetylene to Aldehydes and Î±-Ketoesters Mediated by Hydrogen:Â Carbonyl Insertion into Cationic Rhodacyclopentadienes. Journal of the American Chemical Society, 2006, 128, 16040-16041.	13.7	120
58	Unlocking Hydrogenation for Câ€“C Bond Formation: A Brief Overview of Enantioselective Methods. Organic Process Research and Development, 2011, 15, 1236-1242.	2.7	120
59	Diastereoselective Cobalt-Catalyzed Aldol and Michael Cycloreductions. Journal of the American Chemical Society, 2001, 123, 5112-5113.	13.7	118
60	Enantioselective iridium-catalyzed carbonyl allylation from the alcohol oxidation level via transfer hydrogenation: minimizing pre-activation for synthetic efficiency. Chemical Communications, 2009, , 7278.	4.1	118
61	Highly Enantioselective Reductive Cyclization of Acetylenic Aldehydes via Rhodium Catalyzed Asymmetric Hydrogenation. Journal of the American Chemical Society, 2006, 128, 10674-10675.	13.7	114
62	Diastereo- and Enantioselective Hydrogenative Aldol Coupling of Vinyl Ketones:â€‰ Design of Effective Monodentate TADDOL-Like Phosphonite Ligands. Journal of the American Chemical Society, 2008, 130, 2746-2747.	13.7	114
63	Diene hydroaminomethylation via ruthenium-catalyzed Câ€“C bond forming transfer hydrogenation: beyond carbonylation. Chemical Science, 2016, 7, 136-141.	7.4	113
64	Formation of Câ€“C bonds via ruthenium-catalyzed transfer hydrogenation. Pure and Applied Chemistry, 2012, 84, 1729-1739.	1.9	112
65	Hydroaminomethylation Beyond Carbonylation: Alleneâ€“Imine Reductive Coupling by Rutheniumâ€Catalyzed Transfer Hydrogenation. Angewandte Chemie - International Edition, 2015, 54, 8525-8528.	13.8	112
66	Redox-Triggered Câ€“C Coupling of Alcohols and Vinyl Epoxides: Diastereo- and Enantioselective Formation of All-Carbon Quaternary Centers via tert-(Hydroxy)-Prenylation. Journal of the American Chemical Society, 2014, 136, 8911-8914.	13.7	109
67	All-Carbon Quaternary Centers via Ruthenium-Catalyzed Hydroxymethylation of 2-Substituted Butadienes Mediated by Formaldehyde: Beyond Hydroformylation. Journal of the American Chemical Society, 2009, 131, 10366-10367.	13.7	108
68	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, 12795-12800.	13.7	108
69	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. Journal of the American Chemical Society, 1999, 121, 6131-6141.	13.7	105
70	Enantioselective Reductive Cyclization of 1,6-Enynes via Rhodium-Catalyzed Asymmetric Hydrogenation:Â Câ^'C Bond Formation Precedes Hydrogen Activation. Journal of the American Chemical Society, 2005, 127, 6174-6175.	13.7	105
71	Carbonyl Propargylation from the Alcohol or Aldehyde Oxidation Level Employing 1,3â€Enynes as Surrogates to Preformed Allenylmetal Reagents: A Rutheniumâ€Catalyzed Cï£¿C Bondâ€Forming Transfer Hydrogenation. Angewandte Chemie - International Edition, 2008, 47, 5220-5223.	13.8	105
72	anti-Diastereo- and Enantioselective Carbonyl (Hydroxymethyl)allylation from the Alcohol or Aldehyde Oxidation Level: Allyl Carbonates as Allylmetal Surrogates. Journal of the American Chemical Society, 2010, 132, 4562-4563.	13.7	103

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73	Feedstock Reagents in Metalâ€Catalyzed Carbonyl Reductive Coupling: Minimizing Preactivation for Efficiency in Targetâ€Oriented Synthesis. Angewandte Chemie - International Edition, 2019, 58, 14055-14064.	13.8	102
74	Enantioselective Formation of CF₃-Bearing All-Carbon Quaternary Stereocenters via Câ€“H Functionalization of Methanol: Iridium Catalyzed Allene Hydrohydroxymethylation. Journal of the American Chemical Society, 2017, 139, 8114-8117.	13.7	101
75	Catalytic Crossed Michael Cycloisomerization of Thioenoates:â€‰ Total Synthesis of (Â±)-Ricciocarpin A. Organic Letters, 2003, 5, 1737-1740.	4.6	98
76	Ruthenium Catalyzed Câ^'C Bond Formation via Transfer Hydrogenation: Branch-Selective Reductive Coupling of Allenes to Paraformaldehyde and Higher Aldehydes. Organic Letters, 2008, 10, 2705-2708.	4.6	98
77	Branch-Selective Intermolecular Hydroacylation: Hydrogen-Mediated Coupling of Anhydrides to Styrenes and Activated Olefins. Angewandte Chemie - International Edition, 2006, 45, 6885-6888.	13.8	97
78	Rhodium-Catalyzed Reductive Cyclization of 1,6-Diynes and 1,6-Enynes Mediated by Hydrogen:â€‰ Catalytic Câ^'C Bond Formation via Capture of Hydrogenation Intermediates. Journal of the American Chemical Society, 2004, 126, 7875-7880.	13.7	96
79	Chemo-, Regio-, and Enantioselective Pd-Catalyzed Allylic Alkylation of Indolocarbazole Pro-aglycons. Organic Letters, 2002, 4, 2005-2008.	4.6	95
80	Carbonyl Allylation in the Absence of Preformed Allyl Metal Reagents:â€‰ Reverse Prenylation via Iridium-Catalyzed Hydrogenative Coupling of Dimethylallene. Journal of the American Chemical Society, 2007, 129, 12678-12679.	13.7	95
81	Diastereoâ€•and Enantioselective Iridiumâ€Catalyzed Carbonyl Propargylation from the Alcohol or Aldehyde Oxidation Level: 1,3â€Enynes as Allenylmetal Equivalents. Angewandte Chemie - International Edition, 2012, 51, 2972-2976.	13.8	95
82	Direct, Redox-Neutral Prenylation and Geranylation of Secondary Carbinol Câ€“H Bonds: C4-Regioselectivity in Ruthenium-Catalyzed Câ€“C Couplings of Dienes to Î±-Hydroxy Esters. Journal of the American Chemical Society, 2012, 134, 15700-15703.	13.7	92
83	Regiodivergent reductive coupling of 2-substituted dienes to formaldehyde employing ruthenium or nickel catalyst: hydrohydroxymethylation via transfer hydrogenation. Chemical Science, 2013, 4, 1876.	7.4	92
84	Duplex Oligomers Defined via Covalent Casting of a One-Dimensional Hydrogen-Bonding Motif. Journal of the American Chemical Society, 2002, 124, 5074-5083.	13.7	91
85	Phosphine Catalyzed Î±-Arylation of Enones and Enals Using Hypervalent Bismuth Reagents:Â Regiospecific Enolate Arylation via Nucleophilic Catalysis. Journal of the American Chemical Society, 2004, 126, 5350-5351.	13.7	91
86	First Catalytic Reductive Coupling of 1,3-Diynes to Carbonyl Partners:Â A New Regio- and Enantioselective Câ^'C Bond Forming Hydrogenation. Journal of the American Chemical Society, 2003, 125, 11488-11489.	13.7	90
87	Enhanced anti-Diastereo- and Enantioselectivity in Alcohol-Mediated Carbonyl Crotylation Using an Isolable Single Component Iridium Catalyst. Journal of Organic Chemistry, 2011, 76, 2350-2354.	3.2	90
88	Polarity Inversion of Donorâ€“Acceptor Cyclopropanes: Disubstituted Î´-Lactones via Enantioselective Iridium Catalysis. Journal of the American Chemical Society, 2011, 133, 18618-18621.	13.7	90
89	Catalytic Reductive Coupling of Alkenes and Alkynes to Carbonyl Compounds and Imines Mediated by Hydrogen. , 2007, , 77-104.		89
90	anti-Aminoallylation of Aldehydes via Ruthenium-Catalyzed Transfer Hydrogenative Coupling of Sulfonamido Allenes: 1,2-Aminoalcohols. Journal of the American Chemical Society, 2009, 131, 5054-5055.	13.7	89

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91	Hydroacylation of 2-butyne from the alcohol or aldehyde oxidation level via ruthenium catalyzed Câ€“C bond forming transfer hydrogenation. Tetrahedron, 2009, 65, 5024-5029.	1.9	88
92	Ruthenium Catalyzed Hydrohydroxyalkylation of Isoprene with Heteroaromatic Secondary Alcohols: Isolation and Reversible Formation of the Putative Metallacycle Intermediate. Journal of the American Chemical Society, 2013, 135, 16320-16323.	13.7	87
93	Ruthenium-BINAP Catalyzed Alcohol Câ€“H tert-Prenylation via 1,3-Enyne Transfer Hydrogenation: Beyond Stoichiometric Carbanions in Enantioselective Carbonyl Propargylation. Journal of the American Chemical Society, 2016, 138, 5238-5241.	13.7	86
94	Allylic Amines via Iridium-Catalyzed Câˆ’C Bond Forming Hydrogenation:Â Imine Vinylation in the Absence of Stoichiometric Byproducts or Metallic Reagents. Journal of the American Chemical Society, 2007, 129, 8432-8433.	13.7	84
95	Elongation of 1,3-Polyols via Iterative Catalyst-Directed Carbonyl Allylation from the Alcohol Oxidation Level. Organic Letters, 2009, 11, 3112-3115.	4.6	84
96	A Diastereoselective Metal-Catalyzed [2 + 2] Cycloaddition of Bis-enones. Journal of the American Chemical Society, 2001, 123, 6716-6717.	13.7	83
97	Hydrogen-Mediated Câˆ’C Bond Formation:Â Catalytic Regio- and Stereoselective Reductive Condensation of Î±-Keto Aldehydes and 1,3-Enynes. Journal of the American Chemical Society, 2004, 126, 4664-4668.	13.7	83
98	Iridium-Catalyzed Câˆ’C Bond Forming Hydrogenation:Â Direct Regioselective Reductive Coupling of Alkyl-Substituted Alkynes to Activated Ketones. Journal of the American Chemical Society, 2007, 129, 280-281.	13.7	83
99	Diastereo- and Enantioselective anti-Alkoxyallylation Employing Allylic gem-Dicarboxylates as Allyl Donors via Iridium-Catalyzed Transfer Hydrogenation. Journal of the American Chemical Society, 2010, 132, 1760-1761.	13.7	83
100	Amplification of Anti-Diastereoselectivity via Curtinâˆ’Hammett Effects in Ruthenium-Catalyzed Hydrohydroxyalkylation of 1,1-Disubstituted Allenes: Diastereoselective Formation of All-Carbon Quaternary Centers. Journal of the American Chemical Society, 2011, 133, 1141-1144.	13.7	83
101	Asymmetric Induction in Hydrogen-Mediated Reductive Aldol Additions to Î±-Amino Aldehydes Catalyzed by Rhodium:Â Selective Formation ofsyn-Stereotriads Directed by Intramolecular Hydrogen-Bonding. Journal of the American Chemical Society, 2006, 128, 17051-17056.	13.7	82
102	ESI-MS, DFT, and Synthetic Studies on the H₂-Mediated Coupling of Acetylene: Insertion of Câ•X Bonds into Rhodacyclopentadienes and BrÃ¸nsted Acid Cocatalyzed Hydrogenolysis of Organorhodium Intermediates. Journal of the American Chemical Society, 2009, 131, 16054-16062.	13.7	82
103	Successive Câ€“C Coupling of Dienes to Vicinally Dioxygenated Hydrocarbons: Ruthenium Catalyzed [4 + 2] Cycloaddition across the Diol, Hydroxycarbonyl, or Dione Oxidation Levels. Journal of the American Chemical Society, 2013, 135, 3796-3799.	13.7	81
104	Formation of Câ€“C Bonds via Ruthenium-catalyzed Transfer Hydrogenation: Carbonyl Addition from the Alcohol or Aldehyde Oxidation Level. Chemistry Letters, 2008, 37, 1102-1107.	1.3	80
105	Enolate Generation under Hydrogenation Conditions:â€‰ Catalytic Aldol Cycloreduction of Keto-Enones. Organic Letters, 2003, 5, 1143-1146.	4.6	79
106	Enantioselective Ruthenium-Catalyzed Carbonyl Allylation via Alkyneâ€“Alcohol Câ€“C Bond-Forming Transfer Hydrogenation: Allene Hydrometalation vs Oxidative Coupling. Journal of the American Chemical Society, 2015, 137, 3161-3164.	13.7	78
107	From Hydrogenation to Transfer Hydrogenation to Hydrogen Auto-Transfer in Enantioselective Metal-Catalyzed Carbonyl Reductive Coupling: Past, Present, and Future. ACS Catalysis, 2021, 11, 5572-5585.	11.2	78
108	Chemically Induced Anion Radical Cycloadditions:Â Intramolecular Cyclobutanation of Bis(enones) via Homogeneous Electron Transfer. Journal of the American Chemical Society, 2004, 126, 1634-1635.	13.7	76

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109	Protectingâ€Groupâ€Free Diastereoselective Cï£¿C Coupling of 1,3â€Glycols and Allyl Acetate through Siteâ€Selective Primary Alcohol Dehydrogenation. Angewandte Chemie - International Edition, 2013, 52, 3195-3198.	13.8	76
110	Allenamide Hydroâ^'Hydroxyalkylation: 1,2-Amino Alcohols via Ruthenium-Catalyzed Carbonyl anti-Aminoallylation. Organic Letters, 2010, 12, 2514-2516.	4.6	74
111	Ruthenium-Catalyzed Asymmetric Hydrohydroxyalkylation of Butadiene: The Role of the Formyl Hydrogen Bond in Stereochemical Control. Journal of the American Chemical Society, 2015, 137, 8838-8850.	13.7	73
112	Ruthenium-Catalyzed Hydrohydroxyalkylation of Acrylates with Diols and Î±-Hydroxycarbonyl Compounds To Form Spiro- and Î±-Methylene-Î³-butyrolactones. Journal of the American Chemical Society, 2013, 135, 17230-17235.	13.7	72
113	Anion Radical Chain Cycloaddition of Tethered Enones:â€‰ Intramolecular Cyclobutanation and Dielsâ^'Alder Cycloaddition. Organic Letters, 2002, 4, 611-613.	4.6	71
114	Enantioselective Reductive Coupling of 1,3-Enynes to Glyoxalates Mediated by Hydrogen:â€‰ Asymmetric Synthesis of Î²,Î³-Unsaturated Î±-Hydroxy Esters. Organic Letters, 2007, 9, 3745-3748.	4.6	71
115	Catalyst-Directed Diastereoselectivity in Hydrogenative Couplings of Acetylene to Î±-Chiral Aldehydes: Formal Synthesis of All Eight <scp>l</scp>-Hexoses. Organic Letters, 2008, 10, 4133-4135.	4.6	71
116	Iridium-Catalyzed anti-Diastereo- and Enantioselective Carbonyl (Trimethylsilyl)allylation from the Alcohol or Aldehyde Oxidation Level. Journal of the American Chemical Society, 2010, 132, 9153-9156.	13.7	71
117	Catalytic Addition of Metallo-Aldehyde Enolates to Ketones:â€‰ A New Câ^'C Bond-Forming Hydrogenation. Organic Letters, 2004, 6, 691-694.	4.6	70
118	Iridium-Catalyzed Hydrocarboxylation of 1,1-Dimethylallene:â€‰ Byproduct-Free Reverse Prenylation of Carboxylic Acids. Organic Letters, 2008, 10, 513-515.	4.6	70
119	Divergent Regioselectivity in the Synthesis of Trisubstituted Allylic Alcohols by Nickelâ€•and Rutheniumâ€Catalyzed Alkyne Hydrohydroxymethylation with Formaldehyde. Angewandte Chemie - International Edition, 2011, 50, 5687-5690.	13.8	70
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