

Michael J Krische

List of Publications by Year in descending order

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288
papers

21,694
citations

4120

87
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13727

129
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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. <i>Nature</i> , 2000, 407, 720-723.	13.7	682
2	Intermolecular Metal-Catalyzed Reductive Coupling of Dienes, Allenes, and Enynes with Carbonyl Compounds and Imines. <i>Chemical Reviews</i> , 2018, 118, 6026-6052.	23.0	459
3	Acyclic Quaternary Carbon Stereocenters via Enantioselective Transition Metal Catalysis. <i>Chemical Reviews</i> , 2017, 117, 12564-12580.	23.0	348
4	Enantioselective C-H Crotylation of Primary Alcohols via Hydrohydroxyalkylation of Butadiene. <i>Science</i> , 2012, 336, 324-327.	6.0	320
5	Catalytic Enantioselective C-H Functionalization of Alcohols by Redox-Triggered Carbonyl Addition: Borrowing Hydrogen, Returning Carbon. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9142-9150.	7.2	301
6	Metal-catalyzed reductive coupling of olefin-derived nucleophiles: Reinventing carbonyl addition. <i>Science</i> , 2016, 354, .	6.0	291
7	Catalytic Carbonyl Addition through Transfer Hydrogenation: A Departure from Preformed Organometallic Reagents. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 34-46.	7.2	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. <i>Journal of the American Chemical Society</i> , 2008, 130, 14891-14899.	6.6	269
9	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, 1394-1401.	7.6	267
10	Enantioselective Reductive Coupling of 1,3-Enynes to Heterocyclic Aromatic Aldehydes and Ketones via Rhodium-Catalyzed Asymmetric Hydrogenation: A Mechanistic Insight into the Role of Brønsted Acid Additives. <i>Journal of the American Chemical Society</i> , 2006, 128, 16448-16449.	6.6	248
11	Organocatalytic Michael Cycloisomerization of Bis(enones): The Intramolecular Rauhut-Currier Reaction. <i>Journal of the American Chemical Society</i> , 2002, 124, 2402-2403.	6.6	241
12	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.	7.6	234
13	Catalytic Enone Cycloallylation via Concomitant Activation of Latent Nucleophilic and Electrophilic Partners: A Merging Organic and Transition Metal Catalysis. <i>Journal of the American Chemical Society</i> , 2003, 125, 7758-7759.	6.6	226
14	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, 6340-6341.	6.6	225
15	Catalytic intermolecular hydroacylation of C=C π -bonds in the absence of chelation assistance. <i>Chemical Science</i> , 2012, 3, 2202.	3.7	224
16	Iridium-catalysed direct C=C coupling of methanol and allenenes. <i>Nature Chemistry</i> , 2011, 3, 287-290.	6.6	218
17	Phosphine-Catalyzed Regiospecific Allylic Amination and Dynamic Kinetic Resolution of Morita-Baylis-Hillman Acetates. <i>Organic Letters</i> , 2004, 6, 1337-1339.	2.4	187
18	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, 20628-20631.	6.6	187

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19	Diene Hydroacylation from the Alcohol or Aldehyde Oxidation Level via Ruthenium-Catalyzed C ^α -C Bond-Forming Transfer Hydrogenation: Synthesis of 1,2,3-Unsaturated Ketones. <i>Journal of the American Chemical Society</i> , 2008, 130, 14120-14122.	6.6	185
20	Ruthenium-Catalyzed C ^α -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, 6338-6339.	6.6	182
21	Hydrogen bonding in noncovalent synthesis: selectivity and the directed organization of molecular strands. <i>Tetrahedron</i> , 2001, 57, 1139-1159.	1.0	172
22	Intramolecular Organocatalytic [3+2] Dipolar Cycloaddition: Stereospecific Cycloaddition and the Total Synthesis of (±)-Hirsutene. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 5855-5857.	7.2	171
23	anti-Diastereo- and Enantioselective Carbonyl Crotylation from the Alcohol or Aldehyde Oxidation Level Employing a Cyclometallated Iridium Catalyst: 1-Methyl Allyl Acetate as a Surrogate to Preformed Crotylmetal Reagents. <i>Journal of the American Chemical Society</i> , 2009, 131, 2514-2520.	6.6	170
24	Highly Enantioselective Direct Reductive Coupling of Conjugated Alkynes and 1-Ketoesters via Rhodium-Catalyzed Asymmetric Hydrogenation. <i>Journal of the American Chemical Society</i> , 2006, 128, 718-719.	6.6	169
25	Catalytic C ^α -C Bond Formation via Capture of Hydrogenation Intermediates. <i>Accounts of Chemical Research</i> , 2004, 37, 653-661.	7.6	167
26	Hydrogen-Mediated C ^α -C Bond Formation: A Broad New Concept in Catalytic C ^α -C Coupling. <i>Journal of Organic Chemistry</i> , 2007, 72, 1063-1072.	1.7	167
27	Regio- and Stereoselective Construction of β -Butenolides through Phosphine-Catalyzed Substitution of Morita-Baylis-Hillman Acetates: An Organocatalytic Allylic Alkylation. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 6689-6691.	7.2	166
28	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, 2493-2495.	2.4	162
29	1,2-Glycols as Dialdehyde Equivalents in Iridium-Catalyzed Enantioselective Carbonyl Allylation and Iterative Two-Step Directional Assembly of 1,3-Polyols. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5018-5021.	7.2	162
30	Enantioselective Allylation, Crotylation, and Reverse Prenylation of Substituted Isatins: Iridium-Catalyzed C ^α -C Bond-Forming Transfer Hydrogenation. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6313-6316.	7.2	160
31	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, 6916-6917.	6.6	158
32	Diastereo- and Enantioselective Catalytic Carbometallative Aldol Cycloreduction: Tandem Conjugate Addition-Aldol Cyclization. <i>Journal of the American Chemical Society</i> , 2003, 125, 1110-1111.	6.6	153
33	Catalytic C ^α -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, 15134-15135.	6.6	153
34	Polyketide construction via hydrohydroxyalkylation and related alcohol C ^α -H functionalizations: reinventing the chemistry of carbonyl addition. <i>Natural Product Reports</i> , 2014, 31, 504.	5.2	149
35	The Utilization of Persistent H-Bonding Motifs in the Self-Assembly of Supramolecular Architectures. <i>Structure and Bonding</i> , 2000, , 3-29.	1.0	148
36	Hydrogen-Mediated Reductive Coupling of Conjugated Alkynes with Ethyl (N-Sulfinyl)iminoacetates: Synthesis of Unnatural 1-Amino Acids via Rhodium-Catalyzed C ^α -C Bond Forming Hydrogenation. <i>Journal of the American Chemical Society</i> , 2005, 127, 11269-11276.	6.6	147

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37	Asymmetric Total Synthesis of the Iridoid Î ² -Glucoside (+)-Geniposide via Phosphine Organocatalysis. <i>Organic Letters</i> , 2009, 11, 1849-1851.	2.4	144
38	Total Synthesis of Bryostatin 7 <i>via</i> C-C Bond-Forming Hydrogenation. <i>Journal of the American Chemical Society</i> , 2011, 133, 13876-13879.	6.6	143
39	Enantioselective Alcohol C-H Functionalization for Polyketide Construction: Unlocking Redox-Economy and Site-Selectivity for Ideal Chemical Synthesis. <i>Journal of the American Chemical Society</i> , 2016, 138, 5467-5478.	6.6	143
40	On Asymmetric Induction in Allylic Alkylation via Enantiotopic Facial Discrimination. <i>Journal of the American Chemical Society</i> , 1996, 118, 6297-6298.	6.6	135
41	Diastereoselective Cycloreductions and Cycloadditions Catalyzed by Co(dpm) ₂ -Silane (dpm =) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Radical Pathways. <i>Journal of the American Chemical Society</i> , 2002, 124, 9448-9453.	6.6	134
42	Diastereo- and Enantioselective Ruthenium-Catalyzed Hydrohydroxyalkylation of 2-Silyl-butadienes: Carbonyl <i>syn</i> -Croylation from the Alcohol Oxidation Level. <i>Journal of the American Chemical Society</i> , 2011, 133, 10582-10586.	6.6	132
43	Template-Induced and Molecular Recognition Directed Hierarchical Generation of Supramolecular Assemblies from Molecular Strands. <i>Chemistry - A European Journal</i> , 2000, 6, 1938-1946.	1.7	131
44	Enantioselective Iridium-Catalyzed Imine Vinylation: Optically Enriched Allylic Amines via Alkyne-Imine Reductive Coupling Mediated by Hydrogen. <i>Journal of the American Chemical Society</i> , 2007, 129, 12644-12645.	6.6	131
45	Formation of C-C Bonds via Iridium-Catalyzed Hydrogenation and Transfer Hydrogenation. <i>Topics in Organometallic Chemistry</i> , 2011, 34, 107-138.	0.7	131
46	Copper-Catalyzed Tandem Conjugate Addition-Electrophilic Trapping: Ketones, Esters, and Nitriles as Terminal Electrophiles. <i>Journal of the American Chemical Society</i> , 2004, 126, 4528-4529.	6.6	128
47	Enantioselective Reductive Coupling of Acetylene to N-Arylsulfonyl Imines via Rhodium Catalyzed C-C Bond-Forming Hydrogenation: (Z)-Dienyl Allylic Amines. <i>Journal of the American Chemical Society</i> , 2007, 129, 7242-7243.	6.6	128
48	Direct Vinylation of Alcohols or Aldehydes Employing Alkynes as Vinyl Donors: A Ruthenium Catalyzed C-C Bond-Forming Transfer Hydrogenation. <i>Journal of the American Chemical Society</i> , 2009, 131, 2066-2067.	6.6	127
49	Catalytic Diastereoselective Synthesis of Diquinanes from Acyclic Precursors. <i>Journal of the American Chemical Society</i> , 2003, 125, 3682-3683.	6.6	126
50	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.	6.6	126
51	Paraformaldehyde and Methanol as C ₁ Feedstocks in Metal-Catalyzed C-C Couplings of Unsaturated Reactants: Beyond Hydroformylation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3267-3274.	7.2	125
52	Asymmetric Catalysis Special Feature Part I: Desymmetrization of enone-diones via rhodium-catalyzed diastereo- and enantioselective tandem conjugate addition-aldol cyclization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 5421-5424.	3.3	123
53	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, 15156-15157.	6.6	122
54	Iridium-Catalyzed C-C Coupling via Transfer Hydrogenation: Carbonyl Addition from the Alcohol or Aldehyde Oxidation Level Employing 1,3-Cyclohexadiene. <i>Organic Letters</i> , 2008, 10, 1033-1035.	2.4	122

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55	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, 15559-15561.	6.6	122
56	Alkynes as Electrophilic or Nucleophilic Allylmetal Precursors in Transition-Metal Catalysis. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11312-11325.	7.2	122
57	Catalytic Carbonyl-Dienylation via Multicomponent Reductive Coupling of Acetylene to Aldehydes and α -Ketoesters Mediated by Hydrogen: A Carbonyl Insertion into Cationic Rhodacyclopentadienes. <i>Journal of the American Chemical Society</i> , 2006, 128, 16040-16041.	6.6	120
58	Unlocking Hydrogenation for C-C Bond Formation: A Brief Overview of Enantioselective Methods. <i>Organic Process Research and Development</i> , 2011, 15, 1236-1242.	1.3	120
59	Diastereoselective Cobalt-Catalyzed Aldol and Michael Cycloreductions. <i>Journal of the American Chemical Society</i> , 2001, 123, 5112-5113.	6.6	118
60	Enantioselective iridium-catalyzed carbonyl allylation from the alcohol oxidation level via transfer hydrogenation: minimizing pre-activation for synthetic efficiency. <i>Chemical Communications</i> , 2009, , 7278.	2.2	118
61	Highly Enantioselective Reductive Cyclization of Acetylenic Aldehydes via Rhodium Catalyzed Asymmetric Hydrogenation. <i>Journal of the American Chemical Society</i> , 2006, 128, 10674-10675.	6.6	114
62	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, 2746-2747.	6.6	114
63	Diene hydroaminomethylation via ruthenium-catalyzed C-C bond forming transfer hydrogenation: beyond carbonylation. <i>Chemical Science</i> , 2016, 7, 136-141.	3.7	113
64	Formation of C-C bonds via ruthenium-catalyzed transfer hydrogenation. <i>Pure and Applied Chemistry</i> , 2012, 84, 1729-1739.	0.9	112
65	Hydroaminomethylation Beyond Carbonylation: Allene-Imine Reductive Coupling by Ruthenium-Catalyzed Transfer Hydrogenation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8525-8528.	7.2	112
66	Redox-Triggered C-C Coupling of Alcohols and Vinyl Epoxides: Diastereo- and Enantioselective Formation of All-Carbon Quaternary Centers via tert-(Hydroxy)-Prenylation. <i>Journal of the American Chemical Society</i> , 2014, 136, 8911-8914.	6.6	109
67	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, 10366-10367.	6.6	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. <i>Journal of the American Chemical Society</i> , 2011, 133, 12795-12800.	6.6	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. <i>Journal of the American Chemical Society</i> , 1999, 121, 6131-6141.	6.6	105
70	Enantioselective Reductive Cyclization of 1,6-Enynes via Rhodium-Catalyzed Asymmetric Hydrogenation: C-C Bond Formation Precedes Hydrogen Activation. <i>Journal of the American Chemical Society</i> , 2005, 127, 6174-6175.	6.6	105
71	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, 5220-5223.	7.2	105
72	anti-Diastereo- and Enantioselective Carbonyl (Hydroxymethyl)allylation from the Alcohol or Aldehyde Oxidation Level: Allyl Carbonates as Allylmetal Surrogates. <i>Journal of the American Chemical Society</i> , 2010, 132, 4562-4563.	6.6	103

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73	Feedstock Reagents in Metal-Catalyzed Carbonyl Reductive Coupling: Minimizing Preactivation for Efficiency in Target-Oriented Synthesis. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14055-14064.	7.2	102
74	Enantioselective Formation of CF ₃ -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.	6.6	101
75	Catalytic Crossed Michael Cycloisomerization of Thioenoates: Total Synthesis of (±)-Ricciocarpin A. <i>Organic Letters</i> , 2003, 5, 1737-1740.	2.4	98
76	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, 2705-2708.	2.4	98
77	Branch-Selective Intermolecular Hydroacylation: Hydrogen-Mediated Coupling of Anhydrides to Styrenes and Activated Olefins. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 6885-6888.	7.2	97
78	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. <i>Journal of the American Chemical Society</i> , 2004, 126, 7875-7880.	6.6	96
79	Chemo-, Regio-, and Enantioselective Pd-Catalyzed Allylic Alkylation of Indolocarbazole Pro-aglycons. <i>Organic Letters</i> , 2002, 4, 2005-2008.	2.4	95
80	Carbonyl Allylation in the Absence of Preformed Allyl Metal Reagents: Reverse Prenylation via Iridium-Catalyzed Hydrogenative Coupling of Dimethylallene. <i>Journal of the American Chemical Society</i> , 2007, 129, 12678-12679.	6.6	95
81	Diastereo- and Enantioselective Iridium-Catalyzed Carbonyl Propargylation from the Alcohol or Aldehyde Oxidation Level: 1,3-Enynes as Allenylmetal Equivalents. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2972-2976.	7.2	95
82	Direct, Redox-Neutral Prenylation and Geranylation of Secondary Carbinol C-H Bonds: C4-Regioselectivity in Ruthenium-Catalyzed C-C Couplings of Dienes to ±-Hydroxy Esters. <i>Journal of the American Chemical Society</i> , 2012, 134, 15700-15703.	6.6	92
83	Regiodivergent reductive coupling of 2-substituted dienes to formaldehyde employing ruthenium or nickel catalyst: hydrohydroxymethylation via transfer hydrogenation. <i>Chemical Science</i> , 2013, 4, 1876.	3.7	92
84	Duplex Oligomers Defined via Covalent Casting of a One-Dimensional Hydrogen-Bonding Motif. <i>Journal of the American Chemical Society</i> , 2002, 124, 5074-5083.	6.6	91
85	Phosphine Catalyzed ±-Arylation of Enones and Enals Using Hypervalent Bismuth Reagents: Regiospecific Enolate Arylation via Nucleophilic Catalysis. <i>Journal of the American Chemical Society</i> , 2004, 126, 5350-5351.	6.6	91
86	First Catalytic Reductive Coupling of 1,3-Diynes to Carbonyl Partners: A New Regio- and Enantioselective C-C Bond Forming Hydrogenation. <i>Journal of the American Chemical Society</i> , 2003, 125, 11488-11489.	6.6	90
87	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, 2350-2354.	1.7	90
88	Polarity Inversion of Donor-Acceptor Cyclopropanes: Disubstituted β -Lactones via Enantioselective Iridium Catalysis. <i>Journal of the American Chemical Society</i> , 2011, 133, 18618-18621.	6.6	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. <i>Journal of the American Chemical Society</i> , 2009, 131, 5054-5055.	6.6	89

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91	Hydroacylation of 2-butyne from the alcohol or aldehyde oxidation level via ruthenium catalyzed C=C bond forming transfer hydrogenation. <i>Tetrahedron</i> , 2009, 65, 5024-5029.	1.0	88
92	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, 16320-16323.	6.6	87
93	Ruthenium-BINAP Catalyzed Alcohol C=C-H <i>tert</i> -Prenylation via 1,3-Enyne Transfer Hydrogenation: Beyond Stoichiometric Carbanions in Enantioselective Carbonyl Propargylation. <i>Journal of the American Chemical Society</i> , 2016, 138, 5238-5241.	6.6	86
94	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, 8432-8433.	6.6	84
95	Elongation of 1,3-Polyols via Iterative Catalyst-Directed Carbonyl Allylation from the Alcohol Oxidation Level. <i>Organic Letters</i> , 2009, 11, 3112-3115.	2.4	84
96	A Diastereoselective Metal-Catalyzed [2 + 2] Cycloaddition of Bis-enones. <i>Journal of the American Chemical Society</i> , 2001, 123, 6716-6717.	6.6	83
97	Hydrogen-Mediated C=C Bond Formation: Catalytic Regio- and Stereoselective Reductive Condensation of α -Keto Aldehydes and 1,3-Enynes. <i>Journal of the American Chemical Society</i> , 2004, 126, 4664-4668.	6.6	83
98	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, 280-281.	6.6	83
99	Diastereo- and Enantioselective <i>anti</i> -Alkoxyallylation Employing Allylic <i>gem</i> -Dicarboxylates as Allyl Donors via Iridium-Catalyzed Transfer Hydrogenation. <i>Journal of the American Chemical Society</i> , 2010, 132, 1760-1761.	6.6	83
100	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, 1141-1144.	6.6	83
101	Asymmetric Induction in Hydrogen-Mediated Reductive Aldol Additions to α -Amino Aldehydes Catalyzed by Rhodium: Selective Formation of <i>syn</i> -Stereotriads Directed by Intramolecular Hydrogen-Bonding. <i>Journal of the American Chemical Society</i> , 2006, 128, 17051-17056.	6.6	82
102	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, 16054-16062.	6.6	82
103	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, 3796-3799.	6.6	81
104	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.	0.7	80
105	Enolate Generation under Hydrogenation Conditions: Catalytic Aldol Cycloreduction of Keto-Enones. <i>Organic Letters</i> , 2003, 5, 1143-1146.	2.4	79
106	Enantioselective Ruthenium-Catalyzed Carbonyl Allylation via Alkyne-Alcohol C=C Bond-Forming Transfer Hydrogenation: Allene Hydrometalation vs Oxidative Coupling. <i>Journal of the American Chemical Society</i> , 2015, 137, 3161-3164.	6.6	78
107	From Hydrogenation to Transfer Hydrogenation to Hydrogen Auto-Transfer in Enantioselective Metal-Catalyzed Carbonyl Reductive Coupling: Past, Present, and Future. <i>ACS Catalysis</i> , 2021, 11, 5572-5585.	5.5	78
108	Chemically Induced Anion Radical Cycloadditions: Intramolecular Cyclobutanation of Bis(enones) via Homogeneous Electron Transfer. <i>Journal of the American Chemical Society</i> , 2004, 126, 1634-1635.	6.6	76

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109	Protecting a Group-Free Diastereoselective C-C Coupling of 1,3-Glycols and Allyl Acetate through Site-Selective Primary Alcohol Dehydrogenation. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3195-3198.	7.2	76
110	Allenamide Hydroxyalkylation: 1,2-Amino Alcohols via Ruthenium-Catalyzed Carbonyl <i>anti</i> -Aminoallylation. <i>Organic Letters</i> , 2010, 12, 2514-2516.	2.4	74
111	Ruthenium-Catalyzed Asymmetric Hydrohydroxyalkylation of Butadiene: The Role of the Formyl Hydrogen Bond in Stereochemical Control. <i>Journal of the American Chemical Society</i> , 2015, 137, 8838-8850.	6.6	73
112	Ruthenium-Catalyzed Hydrohydroxyalkylation of Acrylates with Diols and β -Hydroxycarbonyl Compounds To Form Spiro- and β -Methylene- β -butyrolactones. <i>Journal of the American Chemical Society</i> , 2013, 135, 17230-17235.	6.6	72
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