

Amir H Hoveyda

List of Publications by Year in descending order

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Efficient and Recyclable Monomeric and Dendritic Ru-Based Metathesis Catalysts. <i>Journal of the American Chemical Society</i> , 2000, 122, 8168-8179.	6.6	1,915
2	Substrate-directable chemical reactions. <i>Chemical Reviews</i> , 1993, 93, 1307-1370.	23.0	1,413
3	Molybdenum and Tungsten Imido Alkylidene Complexes as Efficient Olefin-Metathesis Catalysts. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 4592-4633.	7.2	1,100
4	A Recyclable Ru-Based Metathesis Catalyst. <i>Journal of the American Chemical Society</i> , 1999, 121, 791-799.	6.6	911
5	The remarkable metal-catalysed olefin metathesis reaction. <i>Nature</i> , 2007, 450, 243-251.	13.7	891
6	Samarium-catalyzed intramolecular Tishchenko reduction of β -hydroxy ketones. A stereoselective approach to the synthesis of differentiated anti 1,3-diol monoesters. <i>Journal of the American Chemical Society</i> , 1990, 112, 6447-6449.	6.6	414
7	A Recyclable Chiral Ru Catalyst for Enantioselective Olefin Metathesis. Efficient Catalytic Asymmetric Ring-Opening/Cross Metathesis in Air. <i>Journal of the American Chemical Society</i> , 2002, 124, 4954-4955.	6.6	404
8	Catalytic Z-selective olefin cross-metathesis for natural product synthesis. <i>Nature</i> , 2011, 471, 461-466.	13.7	359
9	A Readily Available Chiral Ag-Based N-Heterocyclic Carbene Complex for Use in Efficient and Highly Enantioselective Ru-Catalyzed Olefin Metathesis and Cu-Catalyzed Allylic Alkylation Reactions. <i>Journal of the American Chemical Society</i> , 2005, 127, 6877-6882.	6.6	354
10	Efficient Boron-Copper Additions to Aryl-Substituted Alkenes Promoted by NHC-Based Catalysts. Enantioselective Cu-Catalyzed Hydroboration Reactions. <i>Journal of the American Chemical Society</i> , 2009, 131, 3160-3161.	6.6	330
11	Ru complexes bearing bidentate carbenes: from innocent curiosity to uniquely effective catalysts for olefin metathesis. <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 8.	1.5	325
12	Catalytic Asymmetric Olefin Metathesis. <i>Chemistry - A European Journal</i> , 2001, 7, 945-950.	1.7	320
13	Efficient C-B Bond Formation Promoted by N-Heterocyclic Carbenes: Synthesis of Tertiary and Quaternary β -Substituted Carbons through Metal-Free Catalytic Boron Conjugate Additions to Cyclic and Acyclic α,β -Unsaturated Carbonyls. <i>Journal of the American Chemical Society</i> , 2009, 131, 7253-7255.	6.6	302
14	Highly Selective Methods for Synthesis of Internal (\pm) Vinylboronates through Efficient NHC-Cu-Catalyzed Hydroboration of Terminal Alkynes. Utility in Chemical Synthesis and Mechanistic Basis for Selectivity. <i>Journal of the American Chemical Society</i> , 2011, 133, 7859-7871.	6.6	282
15	Discovery of Chiral Catalysts through Ligand Diversity: Ti-Catalyzed Enantioselective Addition of TMSCN to meso Epoxides. <i>Angewandte Chemie International Edition in English</i> , 1996, 35, 1668-1671.	4.4	279
16	Enantioselective Conjugate Silyl Additions to Cyclic and Acyclic Unsaturated Carbonyls Catalyzed by Cu Complexes of Chiral N-Heterocyclic Carbenes. <i>Journal of the American Chemical Society</i> , 2010, 132, 2898-2900.	6.6	278
17	Highly efficient molybdenum-based catalysts for enantioselective alkene metathesis. <i>Nature</i> , 2008, 456, 933-937.	13.7	271
18	Enantioselective Synthesis of Boron-Substituted Quaternary Carbons by NHC-Cu-Catalyzed Boronate Conjugate Additions to Unsaturated Carboxylic Esters, Ketones, or Thioesters. <i>Journal of the American Chemical Society</i> , 2010, 132, 10630-10633.	6.6	267

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19	Modular Peptide-Based Phosphine Ligands in Asymmetric Catalysis: Efficient and Enantioselective Cu-Catalyzed Conjugate Additions to Five-, Six-, and Seven-Membered Cyclic Enones. <i>Journal of the American Chemical Society</i> , 2001, 123, 755-756.	6.6	253
20	NHC-Cu-Catalyzed Enantioselective Hydroboration of Acyclic and Exocyclic 1,1-Disubstituted Aryl Alkenes. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7079-7082.	7.2	243
21	Chiral Ru-Based Complexes for Asymmetric Olefin Metathesis: Enhancement of Catalyst Activity through Steric and Electronic Modifications. <i>Journal of the American Chemical Society</i> , 2003, 125, 12502-12508.	6.6	241
22	Bidentate NHC-Based Chiral Ligands for Efficient Cu-Catalyzed Enantioselective Allylic Alkylations: Structure and Activity of an Air-Stable Chiral Cu Complex. <i>Journal of the American Chemical Society</i> , 2004, 126, 11130-11131.	6.6	237
23	Ti-Catalyzed Enantioselective Addition of Cyanide to Imines. A Practical Synthesis of Optically Pure \pm -Amino Acids. <i>Journal of the American Chemical Society</i> , 1999, 121, 4284-4285.	6.6	232
24	Enantioselective C-C and C-H Bond Formation Mediated or Catalyzed by Chiral ebthi Complexes of Titanium and Zirconium. <i>Angewandte Chemie International Edition in English</i> , 1996, 35, 1262-1284.	4.4	231
25	Catalytic Enantioselective Ring-Closing Metathesis by a Chiral Biphenyl-Mo Complex. <i>Journal of the American Chemical Society</i> , 1998, 120, 4041-4042.	6.6	231
26	Vicinal Diboronates in High Enantiomeric Purity through Tandem Site-Selective NHC-Cu-Catalyzed Boron-Copper Additions to Terminal Alkynes. <i>Journal of the American Chemical Society</i> , 2009, 131, 18234-18235.	6.6	230
27	A Practical Method for Enantioselective Synthesis of All-Carbon Quaternary Stereogenic Centers through NHC-Cu-Catalyzed Conjugate Additions of Alkyl- and Arylzinc Reagents to I^2 -Substituted Cyclic Enones. <i>Journal of the American Chemical Society</i> , 2006, 128, 7182-7184.	6.6	228
28	<i>Z</i> -Selective Olefin Metathesis Processes Catalyzed by a Molybdenum Hexaisopropylterphenoxide Monopyrrolide Complex. <i>Journal of the American Chemical Society</i> , 2009, 131, 7962-7963.	6.6	224
29	Enantioselective Synthesis of Allylboronates Bearing a Tertiary or Quaternary β -Substituted Stereogenic Carbon by NHC-Cu-Catalyzed Substitution Reactions. <i>Journal of the American Chemical Society</i> , 2010, 132, 10634-10637.	6.6	220
30	All-Carbon Quaternary Stereogenic Centers by Enantioselective Cu-Catalyzed Conjugate Additions Promoted by a Chiral N-Heterocyclic Carbene. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1097-1100.	7.2	219
31	Highly <i>Z</i> - and Enantioselective Ring-Opening/Cross-Metathesis Reactions Catalyzed by Stereogenic-at-Mo Adamantylimido Complexes. <i>Journal of the American Chemical Society</i> , 2009, 131, 3844-3845.	6.6	215
32	Multifunctional organoboron compounds for scalable natural product synthesis. <i>Nature</i> , 2014, 513, 367-374.	13.7	214
33	Enantioselective silyl protection of alcohols catalysed by an amino-acid-based small molecule. <i>Nature</i> , 2006, 443, 67-70.	13.7	208
34	Synthesis of macrocyclic natural products by catalyst-controlled stereoselective ring-closing metathesis. <i>Nature</i> , 2011, 479, 88-93.	13.7	208
35	Highly Site- and Enantioselective Cu-Catalyzed Allylic Alkylation Reactions with Easily Accessible Vinylaluminum Reagents. <i>Journal of the American Chemical Society</i> , 2008, 130, 446-447.	6.6	207
36	Highly <i>Z</i> -Selective Metathesis Homocoupling of Terminal Olefins. <i>Journal of the American Chemical Society</i> , 2009, 131, 16630-16631.	6.6	204

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37	Metal-Free Catalytic Enantioselective C=C Bond Formation: (Pinacolato)boron Conjugate Additions to α,β -Unsaturated Ketones, Esters, Weinreb Amides, and Aldehydes Promoted by Chiral N-Heterocyclic Carbenes. <i>Journal of the American Chemical Society</i> , 2012, 134, 8277-8285.	6.6	204
38	Readily Accessible and Easily Modifiable Ru-Based Catalysts for Efficient and <i>Z</i> -Selective Ring-Opening Metathesis Polymerization and Ring-Opening/Cross-Metathesis. <i>Journal of the American Chemical Society</i> , 2013, 135, 10258-10261.	6.6	201
39	Simple organic molecules as catalysts for enantioselective synthesis of amines and alcohols. <i>Nature</i> , 2013, 494, 216-221.	13.7	199
40	Cu-Catalyzed Asymmetric Conjugate Additions of Alkylzinc Reagents to Acyclic Aliphatic Enones. <i>Journal of the American Chemical Society</i> , 2002, 124, 779-781.	6.6	196
41	Cu-Catalyzed Chemoselective Preparation of (Pinacolato)boron-Substituted Allylcopper Complexes and their In-Situ Site-, Diastereo-, and Enantioselective Additions to Aldehydes and Ketones. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5046-5051.	7.2	194
42	Diastereo- and Enantioselective Reactions of Bis(pinacolato)diboron, 1,3-Enynes, and Aldehydes Catalyzed by an Easily Accessible Bisphosphine-Cu Complex. <i>Journal of the American Chemical Society</i> , 2014, 136, 11304-11307.	6.6	193
43	Site- and Enantioselective Formation of Allene-Bearing Tertiary or Quaternary Carbon Stereogenic Centers through NHC-Cu-Catalyzed Allylic Substitution. <i>Journal of the American Chemical Society</i> , 2012, 134, 1490-1493.	6.6	191
44	Catalytic Enantioselective Olefin Metathesis in Natural Product Synthesis. Chiral Metal-Based Complexes that Deliver High Enantioselectivity and More. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 34-44.	7.2	190
45	Ag-Catalyzed Asymmetric Mannich Reactions of Enol Ethers with Aryl, Alkyl, Alkenyl, and Alkynyl Imines. <i>Journal of the American Chemical Society</i> , 2004, 126, 3734-3735.	6.6	187
46	High-value alcohols and higher-oxidation-state compounds by catalytic <i>Z</i> -selective cross-metathesis. <i>Nature</i> , 2015, 517, 181-186.	13.7	184
47	Enantioselective Synthesis of All-Carbon Quaternary Stereogenic Centers by Catalytic Asymmetric Conjugate Additions of Alkyl and Aryl Aluminum Reagents to Five-, Six-, and Seven-Membered Ring-Substituted Cyclic Enones. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 7358-7362.	7.2	182
48	α -Selective Ni-Catalyzed Hydroalumination of Aryl- and Alkyl-Substituted Terminal Alkynes: Practical Syntheses of Internal Vinyl Aluminums, Halides, or Boronates. <i>Journal of the American Chemical Society</i> , 2010, 132, 10961-10963.	6.6	181
49	Catalytic Asymmetric Alkylations of Ketoimines. Enantioselective Synthesis of <i>N</i> -Substituted Quaternary Carbon Stereogenic Centers by Zr-Catalyzed Additions of Dialkylzinc Reagents to Aryl-, Alkyl-, and Trifluoroalkyl-Substituted Ketoimines. <i>Journal of the American Chemical Society</i> , 2008, 130, 5530-5541.	6.6	180
50	Evolution of Catalytic Stereoselective Olefin Metathesis: From Ancillary Transformation to Purveyor of Stereochemical Identity. <i>Journal of Organic Chemistry</i> , 2014, 79, 4763-4792.	1.7	180
51	Modular Pyridinyl Peptide Ligands in Asymmetric Catalysis: Enantioselective Synthesis of Quaternary Carbon Atoms Through Copper-Catalyzed Allylic Substitutions. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 1456-1460.	7.2	172
52	Enantioselective Synthesis of Allylsilanes Bearing Tertiary and Quaternary Si-Substituted Carbons through Cu-Catalyzed Allylic Alkylations with Alkylzinc and Arylzinc Reagents. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4554-4558.	7.2	170
53	Design and Stereoselective Preparation of a New Class of Chiral Olefin Metathesis Catalysts and Application to Enantioselective Synthesis of Quebrachamine: Catalyst Development Inspired by Natural Product Synthesis. <i>Journal of the American Chemical Society</i> , 2009, 131, 943-953.	6.6	166
54	Chiral Mo-Binol Complexes: Activity, Synthesis, and Structure. Efficient Enantioselective Six-Membered Ring Synthesis through Catalytic Metathesis. <i>Journal of the American Chemical Society</i> , 1999, 121, 8251-8259.	6.6	165

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55	Synthesis of Quaternary Carbon Stereogenic Centers through Enantioselective Cu-Catalyzed Allylic Substitutions with Vinylaluminum Reagents. <i>Journal of the American Chemical Society</i> , 2010, 132, 14315-14320.	6.6	165
56	Mo-Catalyzed Asymmetric Synthesis of Dihydrofurans. Catalytic Kinetic Resolution and Enantioselective Desymmetrization through Ring-Closing Metathesis. <i>Journal of the American Chemical Society</i> , 1998, 120, 9720-9721.	6.6	164
57	Ag-Catalyzed Diastereo- and Enantioselective Vinylogous Mannich Reactions of $\hat{1}\pm$ -Ketoimine Esters. Development of a Method and Investigation of its Mechanism. <i>Journal of the American Chemical Society</i> , 2009, 131, 570-576.	6.6	164
58	High-Throughput Strategies for the Discovery of Catalysts. <i>Chemistry - A European Journal</i> , 1998, 4, 1885-1889.	1.7	162
59	Three-Component Catalytic Asymmetric Synthesis of Aliphatic Amines. <i>Journal of the American Chemical Society</i> , 2001, 123, 10409-10410.	6.6	162
60	Chiral N-Heterocyclic Carbenes in Natural Product Synthesis: Application of Ru-Catalyzed Asymmetric Ring-Opening/Cross-Metathesis and Cu-Catalyzed Allylic Alkylation to Total Synthesis of Baconipyronone. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3860-3864.	7.2	162
61	Small peptides as ligands for catalytic asymmetric alkylations of olefins. Rational design of catalysts or of searches that lead to them?. <i>Chemical Communications</i> , 2004, , 1779.	2.2	161
62	Direct synthesis of Z-alkenyl halides through catalytic cross-metathesis. <i>Nature</i> , 2016, 531, 459-465.	13.7	159
63	Immobilization of Olefin Metathesis Catalysts on Monolithic Sol-Gel: Practical, Efficient, and Easily Recyclable Catalysts for Organic and Combinatorial Synthesis. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 4251-4256.	7.2	158
64	Cascade Catalysis in Synthesis. An Enantioselective Route to Sch 38516 (and Fluvirucin B1) Aglycon Macrolactam. <i>Journal of the American Chemical Society</i> , 1995, 117, 2943-2944.	6.6	157
65	Zr-Catalyzed Kinetic Resolution of Allylic Ethers and Mo-Catalyzed Chromene Formation in Synthesis. Enantioselective Total Synthesis of the Antihypertensive Agent (S,R,R,R)-Nebivolol. <i>Journal of the American Chemical Society</i> , 1998, 120, 8340-8347.	6.6	154
66	Chromenes through Metal-Catalyzed Reactions of Styrenyl Ethers. Mechanism and Utility in Synthesis. <i>Journal of the American Chemical Society</i> , 1998, 120, 2343-2351.	6.6	154
67	Efficient and Practical Ag-Catalyzed Cycloadditions between Arylimines and the Danishefsky Diene. <i>Journal of the American Chemical Society</i> , 2003, 125, 4018-4019.	6.6	153
68	Cu-Catalyzed Asymmetric Allylic Alkylations of Aromatic and Aliphatic Phosphates with Alkylzinc Reagents. An Effective Method for Enantioselective Synthesis of Tertiary and Quaternary Carbons. <i>Journal of the American Chemical Society</i> , 2004, 126, 10676-10681.	6.6	150
69	Enantioselective Synthesis of Nitroalkanes Bearing All-Carbon Quaternary Stereogenic Centers through Cu-Catalyzed Asymmetric Conjugate Additions. <i>Journal of the American Chemical Society</i> , 2005, 127, 4584-4585.	6.6	150
70	Metal-Free Catalytic C=C-Si Bond Formation in an Aqueous Medium. Enantioselective NHC-Catalyzed Silyl Conjugate Additions to Cyclic and Acyclic $\hat{1}\pm, \hat{1}^2$ -Unsaturated Carbonyls. <i>Journal of the American Chemical Society</i> , 2011, 133, 7712-7715.	6.6	149
71	Catalytic Enantioselective Alkylations of Tetrasubstituted Olefins. Synthesis of All-Carbon Quaternary Stereogenic Centers through Cu-Catalyzed Asymmetric Conjugate Additions of Alkylzinc Reagents to Enones. <i>Journal of the American Chemical Society</i> , 2005, 127, 14988-14989.	6.6	148
72	Efficient Enantioselective Synthesis of Functionalized Tetrahydropyrans by Ru-Catalyzed Asymmetric Ring-Opening Metathesis/Cross-Metathesis (AROM/CM). <i>Journal of the American Chemical Society</i> , 2004, 126, 12288-12290.	6.6	145

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73	Enantioselective Synthesis of Propargylamines through Zr-Catalyzed Addition of Mixed Alkynylzinc Reagents to Arylimines. <i>Organic Letters</i> , 2003, 5, 3273-3275.	2.4	144
74	Search for Chiral Catalysts Through Ligand Diversity: Substrate-Specific Catalysts and Ligand Screening on Solid Phase. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 1704-1707.	4.4	143
75	Three-Component Enantioselective Synthesis of Propargylamines through Zr-Catalyzed Additions of Alkyl Zinc Reagents to Alkynylimines. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 4244-4247.	7.2	142
76	Enantioselective Synthesis of Trisubstituted Allenyl-B(pin) Compounds by Phosphine-Cu-Catalyzed 1,3-Enyne Hydroboration. Insights Regarding Stereochemical Integrity of Cu-Allenyl Intermediates. <i>Journal of the American Chemical Society</i> , 2018, 140, 2643-2655.	6.6	142
77	Aluminum-Catalyzed Asymmetric Addition of TMSCN to Aromatic and Aliphatic Ketones Promoted by an Easily Accessible and Recyclable Peptide Ligand. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 1009-1012.	7.2	140
78	Enantioselective Synthesis of Alkyne-Substituted Quaternary Carbon Stereogenic Centers through NHC-Cu-Catalyzed Allylic Substitution Reactions with (<i>i</i> -Bu) ₂ (Alkynyl)aluminum Reagents. <i>Journal of the American Chemical Society</i> , 2011, 133, 4778-4781.	6.6	136
79	Exceptionally <i>E</i> - and <i>Z</i> -Selective NHC-Cu-Catalyzed Proto-Silyl Additions to Terminal Alkynes and Site- and Enantioselective Proto-Boryl Additions to the Resulting Vinylsilanes: Synthesis of Enantiomerically Enriched Vicinal and Geminal Borosilanes. <i>Chemistry - A European Journal</i> , 2013, 19, 3204-3214.	1.7	136
80	Enantioselective Synthesis of Arylamines Through Zr-Catalyzed Addition of Dialkylzincs to Imines. Reaction Development by Screening of Parallel Libraries. <i>Journal of the American Chemical Society</i> , 2001, 123, 984-985.	6.6	135
81	Mechanism of Enantioselective Ti-Catalyzed Strecker Reaction: A Peptide-Based Metal Complexes as Bifunctional Catalysts. <i>Journal of the American Chemical Society</i> , 2001, 123, 11594-11599.	6.6	135
82	Zirconium-catalyzed asymmetric carbomagnesation. <i>Journal of the American Chemical Society</i> , 1993, 115, 6997-6998.	6.6	133
83	Stereogenic-at-Metal Zn- and Al-Based N-Heterocyclic Carbene (NHC) Complexes as Bifunctional Catalysts in Cu-Free Enantioselective Allylic Alkylations. <i>Journal of the American Chemical Society</i> , 2009, 131, 11625-11633.	6.6	133
84	A Readily Available and User-Friendly Chiral Catalyst for Efficient Enantioselective Olefin Metathesis. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 1452-1456.	7.2	132
85	Kinetic Resolution of 1,2-Diols through Highly Site- and Enantioselective Catalytic Silylation. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 8471-8474.	7.2	132
86	Molybdenum chloride catalysts for Z-selective olefin metathesis reactions. <i>Nature</i> , 2017, 542, 80-85.	13.7	132
87	A Highly Efficient and Practical Method for Catalytic Asymmetric Vinylogous Mannich (AVM) Reactions. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 7230-7233.	7.2	131
88	Enantioselective Synthesis of Unsaturated Cyclic Tertiary Ethers By Mo-Catalyzed Olefin Metathesis. <i>Journal of the American Chemical Society</i> , 2001, 123, 3139-3140.	6.6	130
89	Three-Component Ag-Catalyzed Enantioselective Vinylogous Mannich and Aza-Diels-Alder Reactions with Alkyl-Substituted Aldehydes. <i>Journal of the American Chemical Society</i> , 2008, 130, 17961-17969.	6.6	130
90	Tandem Catalytic Asymmetric Ring-Opening Metathesis/Ring-Closing Metathesis. <i>Journal of the American Chemical Society</i> , 2000, 122, 1828-1829.	6.6	129

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91	Stereoisomerically Pure Trisubstituted Vinylaluminum Reagents and their Utility in Copper-Catalyzed Enantioselective Synthesis of 1,4-Dienes Containing <i>Z</i> - or <i>E</i> -Alkenes. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 419-423.	7.2	129
92	Enantioselective Total Synthesis of Erogorgiaene: Applications of Asymmetric Cu-Catalyzed Conjugate Additions of Alkylzincs to Acyclic Enones. <i>Journal of the American Chemical Society</i> , 2004, 126, 96-101.	6.6	128
93	Enantioselective Synthesis of Stereogenic Phosphinates and Phosphine Oxides by Molybdenum-Catalyzed Asymmetric Ring-Closing Metathesis. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 762-766.	7.2	126
94	<i>Z</i> -Selective Olefin Metathesis Reactions Promoted by Tungsten Oxo Alkylidene Complexes. <i>Journal of the American Chemical Society</i> , 2011, 133, 20754-20757.	6.6	125
95	Stereoselective formation of carbon-carbon bonds through metal catalysis. The zirconium-catalyzed ethylmagnesium reaction. <i>Journal of the American Chemical Society</i> , 1991, 113, 5079-5080.	6.6	124
96	Highly Enantioselective Cu-Catalyzed Conjugate Additions of Dialkylzinc Reagents to Unsaturated Furanones and Pyranones: Preparation of Air-Stable and Catalytically Active Cu-Peptide Complexes. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 5306-5310.	7.2	124
97	Formation of Vinyl-, Vinylhalide- or Acyl-Substituted Quaternary Carbon Stereogenic Centers through NHC-Cu-Catalyzed Enantioselective Conjugate Additions of Si-Containing Vinylaluminums to β^2 -Substituted Cyclic Enones. <i>Journal of the American Chemical Society</i> , 2011, 133, 736-739.	6.6	124
98	Catalytic enantioselective 1,6-conjugate additions of propargyl and allyl groups. <i>Nature</i> , 2016, 537, 387-393.	13.7	124
99	Catalytic S_N2 - and Enantioselective Allylic Substitution with a Diborylmethane Reagent and Application in Synthesis. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3455-3458.	7.2	124
100	Efficient Catalytic Enantioselective Synthesis of Unsaturated Amines: Preparation of Small- and Medium-Ring Cyclic Amines through Mo-Catalyzed Asymmetric Ring-Closing Metathesis in the Absence of Solvent. <i>Journal of the American Chemical Society</i> , 2002, 124, 6991-6997.	6.6	123
101	Applications of Zr-Catalyzed Carbomagnesation and Mo-Catalyzed Macrocyclic Ring Closing Metathesis in Asymmetric Synthesis. Enantioselective Total Synthesis of Sch 38516 (Fluvirucin B1). <i>Journal of the American Chemical Society</i> , 1997, 119, 10302-10316.	6.6	122
102	Directed Catalytic Asymmetric Olefin Metathesis. Selectivity Control by Enoate and Ynoate Groups in Ru-Catalyzed Asymmetric Ring-Opening/Cross-Metathesis. <i>Journal of the American Chemical Society</i> , 2007, 129, 3824-3825.	6.6	121
103	Mechanism-based enhancement of scope and enantioselectivity for reactions involving a copper-substituted stereogenic carbon centre. <i>Nature Chemistry</i> , 2018, 10, 99-108.	6.6	121
104	Enantioselective Total Synthesis of Clavirolide C. Applications of Cu-Catalyzed Asymmetric Conjugate Additions and Ru-Catalyzed Ring-Closing Metathesis. <i>Journal of the American Chemical Society</i> , 2008, 130, 12904-12906.	6.6	120
105	Quaternary Carbon Stereogenic Centers through Copper-Catalyzed Enantioselective Allylic Substitutions with Readily Accessible Aryl- or Heteroaryl-lithium Reagents and Aluminum Chlorides. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8370-8374.	7.2	119
106	Ti-Catalyzed Regio- and Enantioselective Synthesis of Unsaturated β -Amino Nitriles, Amides, and Acids. Catalyst Identification through Screening of Parallel Libraries. <i>Journal of the American Chemical Society</i> , 2000, 122, 2657-2658.	6.6	118
107	Synthesis of <i>Z</i> -(Pinacolato)allylboron and <i>Z</i> -(Pinacolato)alkenylboron Compounds through Stereoselective Catalytic Cross-Metathesis. <i>Journal of the American Chemical Society</i> , 2013, 135, 6026-6029.	6.6	118
108	Enantioselective Synthesis of β -Alkyl- β^3 -unsaturated Esters through Efficient Cu-Catalyzed Allylic Alkylations. <i>Journal of the American Chemical Society</i> , 2003, 125, 4690-4691.	6.6	117

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109	Cu ⁺ Catalyzed Enantioselective Conjugate Addition of Alkylzincs to Cyclic Nitroalkenes: A Catalytic Asymmetric Synthesis of Cyclic β -Substituted Ketones. <i>Journal of the American Chemical Society</i> , 2002, 124, 8192-8193.	6.6	116
110	Ethenolysis Reactions Catalyzed by Imido Alkylidene Monoaryloxide Monopyrrolide (MAP) Complexes of Molybdenum. <i>Journal of the American Chemical Society</i> , 2009, 131, 10840-10841.	6.6	116
111	H-Bonding as a Control Element in Stereoselective Ru-Catalyzed Olefin Metathesis. <i>Journal of the American Chemical Society</i> , 2009, 131, 8378-8379.	6.6	115
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