

Amir H Hoveyda

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325
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31,839
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h-index

165
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381
ext. papers

34,204
ext. citations

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L-index

#	Paper	IF	Citations
325	Efficient and Recyclable Monomeric and Dendritic Ru-Based Metathesis Catalysts. <i>Journal of the American Chemical Society</i> , 2000 , 122, 8168-8179	16.4	1743
324	Substrate-directable chemical reactions. <i>Chemical Reviews</i> , 1993 , 93, 1307-1370	68.1	1272
323	Molybdenum and tungsten imido alkylidene complexes as efficient olefin-metathesis catalysts. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 4592-633	16.4	988
322	A Recyclable Ru-Based Metathesis Catalyst. <i>Journal of the American Chemical Society</i> , 1999 , 121, 791-799	16.4	811
321	The remarkable metal-catalysed olefin metathesis reaction. <i>Nature</i> , 2007 , 450, 243-51	50.4	796
320	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	16.4	375
319	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, 4954-5	16.4	365
318	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, 6877-82	16.4	332
317	Catalytic Z-selective olefin cross-metathesis for natural product synthesis. <i>Nature</i> , 2011 , 471, 461-6	50.4	315
316	Ru complexes bearing bidentate carbenes: from innocent curiosity to uniquely effective catalysts for olefin metathesis. <i>Organic and Biomolecular Chemistry</i> , 2004 , 2, 8-23	3.9	299
315	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, 3160-1	16.4	292
314	Catalytic asymmetric olefin metathesis. <i>Chemistry - A European Journal</i> , 2001 , 7, 945-50	4.8	285
313	Efficient C-B bond formation promoted by N-heterocyclic carbenes: synthesis of tertiary and quaternary B-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, 7253-5	16.4	283
312	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, 2898-900	16.4	247
311	Highly efficient molybdenum-based catalysts for enantioselective alkene metathesis. <i>Nature</i> , 2008 , 456, 933-7	50.4	246
310	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, 10630-3	16.4	243
309	Discovery of Chiral Catalysts through Ligand Diversity: Ti-Catalyzed Enantioselective Addition of TMS-CN to meso Epoxides. <i>Angewandte Chemie International Edition in English</i> , 1996 , 35, 1668-1671		237

308	Highly selective methods for synthesis of internal (β -) 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, 7859-71	16.4	236
307	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, 755-6	16.4	226
306	Molybd β - und Wolframimidoalkylidenkomplexe als effiziente Olefinmetathesekatalysatoren. <i>Angewandte Chemie</i> , 2003 , 115, 4740-4782	3.6	222
305	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, 11130-1	16.4	220
304	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, 12502-8	16.4	219
303	A practical method for enantioselective synthesis of all-carbon quaternary stereogenic centers through NHC-Cu-catalyzed conjugate additions of alkyl- and arylzinc reagents to beta-substituted cyclic enones. <i>Journal of the American Chemical Society</i> , 2006 , 128, 7182-4	16.4	213
302	Z-selective olefin metathesis processes catalyzed by a molybdenum hexaisopropylterphenoxide monopyrrolide complex. <i>Journal of the American Chemical Society</i> , 2009 , 131, 7962-3	16.4	207
301	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, 1097-100	16.4	200
300	NHC-Cu-catalyzed enantioselective hydroboration of acyclic and exocyclic 1,1-disubstituted aryl alkenes. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 7079-82	16.4	198
299	Catalytic Enantioselective Ring-Closing Metathesis by a Chiral Biphenyl-Mo Complex. <i>Journal of the American Chemical Society</i> , 1998 , 120, 4041-4042	16.4	198
298	Ti-Catalyzed Enantioselective Addition of Cyanide to Imines. A Practical Synthesis of Optically Pure β -Amino Acids. <i>Journal of the American Chemical Society</i> , 1999 , 121, 4284-4285	16.4	197
297	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		197
296	Enantioselective synthesis of allylboronates bearing a tertiary or quaternary B-substituted stereogenic carbon by NHC-Cu-catalyzed substitution reactions. <i>Journal of the American Chemical Society</i> , 2010 , 132, 10634-7	16.4	196
295	Synthesis of macrocyclic natural products by catalyst-controlled stereoselective ring-closing metathesis. <i>Nature</i> , 2011 , 479, 88-93	50.4	191
294	Highly Z- and enantioselective ring-opening/cross-metathesis reactions catalyzed by stereogenic-at-Mo adamantylimido complexes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 3844-5	16.4	191
293	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, 18234-5	16.4	189
292	Enantioselective silyl protection of alcohols catalysed by an amino-acid-based small molecule. <i>Nature</i> , 2006 , 443, 67-70	50.4	187
291	Highly Z-selective metathesis homocoupling of terminal olefins. <i>Journal of the American Chemical Society</i> , 2009 , 131, 16630-1	16.4	185

290	Metal-free catalytic enantioselective C-B 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, 8277-85	16.4	184
289	Highly site- and enantioselective Cu-catalyzed allylic alkylation reactions with easily accessible vinylaluminum reagents. <i>Journal of the American Chemical Society</i> , 2008 , 130, 446-7	16.4	183
288	Simple organic molecules as catalysts for enantioselective synthesis of amines and alcohols. <i>Nature</i> , 2013 , 494, 216-21	50.4	177
287	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, 1490-3	16.4	172
286	Cu-catalyzed chemoselective preparation of 2-(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, 5046-51	16.4	172
285	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 beta-substituted cyclic enones. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 7358-62	16.4	171
284	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, 3734-5	16.4	171
283	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	16.4	168
282	Readily accessible and easily modifiable Ru-based catalysts for efficient and Z-selective ring-opening metathesis polymerization and ring-opening/cross-metathesis. <i>Journal of the American Chemical Society</i> , 2013 , 135, 10258-61	16.4	167
281	Cu-catalyzed asymmetric conjugate additions of alkylzinc reagents to acyclic aliphatic enones. <i>Journal of the American Chemical Society</i> , 2002 , 124, 779-81	16.4	166
280	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, 11304-7	16.4	165
279	Multifunctional organoboron compounds for scalable natural product synthesis. <i>Nature</i> , 2014 , 513, 367-368	30.4	165
278	Alpha-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, 10961-3	16.4	165
277	Catalytic asymmetric alkylations of ketoimines. Enantioselective synthesis of N-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, 5530-41	16.4	164
276	Evolution of catalytic stereoselective olefin metathesis: from ancillary transformation to purveyor of stereochemical identity. <i>Journal of Organic Chemistry</i> , 2014 , 79, 4763-92	4.2	158
275	Ag-catalyzed diastereo- and enantioselective vinylogous Mannich reactions of alpha-ketoimine esters. Development of a method and investigation of its mechanism. <i>Journal of the American Chemical Society</i> , 2009 , 131, 570-6	16.4	157
274	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, 4554-8	16.4	156
273	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 , 1779-85	5.8	154

272	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, 943-53	16.4	152
271	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, 3860-4	16.4	150
270	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, 14315-20	16.4	145
269	High-Throughput Strategies for the Discovery of Catalysts. <i>Chemistry - A European Journal</i> , 1998 , 4, 1885-1889	16.4	141
268	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	16.4	140
267	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, 4584-5	16.4	139
266	Efficient and practical Ag-catalyzed cycloadditions between arylimines and the Danishefsky diene. <i>Journal of the American Chemical Society</i> , 2003 , 125, 4018-9	16.4	139
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260	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, 12288-90	16.4	134
259	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	16.4	134
258	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	16.4	133
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256	Enantioselective synthesis of propargylamines through Zr-catalyzed addition of mixed alkynylzinc reagents to arylimines. <i>Organic Letters</i> , 2003 , 5, 3273-5	6.2	132
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- 247 Direct synthesis of Z-alkenyl halides through catalytic cross-metathesis. *Nature*, **2016**, 531, 459-65 50.4 122
- 246 Exceptionally E- and β -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. *Chemistry - A European Journal*, **2013**, 19, 3204-14 4.8 121
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- 238 Aluminum-catalyzed asymmetric addition of TMS-CN to aromatic and aliphatic ketones promoted by an easily accessible and recyclable peptide ligand. *Angewandte Chemie - International Edition*, **2002**, 41, 1009-12 16.4 115
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- 235 Enantioselective total synthesis of clavirolide C. Applications of Cu-catalyzed asymmetric conjugate additions and Ru-catalyzed ring-closing metathesis. *Journal of the American Chemical Society*, **2008**, 130, 12904-6 16.4 111
- 234 Tandem Catalytic Asymmetric Ring-Opening Metathesis/Ring-Closing Metathesis. *Journal of the American Chemical Society*, **2000**, 122, 1828-1829 16.4 110
- 233 Ethenolysis reactions catalyzed by imido alkylidene monoaryloxide monopyrrolide (MAP) complexes of molybdenum. *Journal of the American Chemical Society*, **2009**, 131, 10840-1 16.4 109
- 232 Quaternary carbon stereogenic centers through copper-catalyzed enantioselective allylic substitutions with readily accessible aryl- or heteroaryllithium reagents and aluminum chlorides. *Angewandte Chemie - International Edition*, **2010**, 49, 8370-4 16.4 109
- 231 Highly enantioselective Cu-catalyzed conjugate additions of dialkylzinc reagents to unsaturated furanones and pyranones: preparation of air-stable and catalytically active Cu-peptide complexes. *Angewandte Chemie - International Edition*, **2005**, 44, 5306-10 16.4 108
- 230 H-bonding as a control element in stereoselective Ru-catalyzed olefin metathesis. *Journal of the American Chemical Society*, **2009**, 131, 8378-9 16.4 107
- 229 A Readily Available and User-Friendly Chiral Catalyst for Efficient Enantioselective Olefin Metathesis. *Angewandte Chemie - International Edition*, **2001**, 40, 1452-1456 16.4 105
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66	Enantioselective Total Synthesis of (-)-Deoxoapodine. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13857-13860	16.4	20
65	Diphenylamido Precursors to Bisalkoxide Molybdenum Olefin Metathesis Catalysts. <i>Organometallics</i> , 2006 , 25, 4621-4626	3.8	20
64	The First Polymer-Supported and Recyclable Chiral Catalyst for Enantioselective Olefin Metathesis. <i>Angewandte Chemie</i> , 2002 , 114, 609-613	3.6	20
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62	N-Substituted tertiary and O-substituted quaternary carbon stereogenic centers by site-, diastereo- and enantioselective vinylogous Mannich reactions. <i>Tetrahedron Letters</i> , 2015 , 56, 3489-3493	2	19
61	Regarding a Persisting Puzzle in Olefin Metathesis with Ru Complexes: Why are Transformations of Alkenes with a Small Substituent Z-Selective?. <i>Organometallics</i> , 2016 , 35, 543-562	3.8	19
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7	Organoaluminum Compounds in Catalytic Enantioselective C-C Bond Forming Reactions 2016 , 1-58		1
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4	Primo Levi's The Periodic Table. A search for patterns in times past. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 6592-4	16.4	1
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2 Polymer-supported Olefin Metathesis Catalysts for Organic and Combinatorial Synthesis **2005**, 467-502 ○

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