

Larry E Overman

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362
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#	Paper	IF	Citations
362	The asymmetric intramolecular Heck reaction in natural product total synthesis. <i>Chemical Reviews</i> , 2003 , 103, 2945-64	68.1	1232
361	Catalytic asymmetric synthesis of all-carbon quaternary stereocenters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 5363-7	11.5	744
360	Catalytic enantioselective synthesis of quaternary carbon stereocentres. <i>Nature</i> , 2014 , 516, 181-91	50.4	617
359	Total synthesis of complex cyclotryptamine alkaloids: stereocontrolled construction of quaternary carbon stereocenters. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 5488-508	16.4	369
358	Vinylsilane- and alkynylsilane-terminated cyclization reactions. <i>Chemical Reviews</i> , 1986 , 86, 857-873	68.1	286
357	Contiguous stereogenic quaternary carbons: a daunting challenge in natural products synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 11943-8	11.5	280
356	Mercury(II)- and Palladium(II)-Catalyzed [3,3]-Sigmatropic Rearrangements [New Synthetic Methods (46)]. <i>Angewandte Chemie International Edition in English</i> , 1984 , 23, 579-586		268
355	An "artificial enzyme" combining a metal catalytic group and a hydrophobic binding cavity. <i>Journal of the American Chemical Society</i> , 1970 , 92, 1075-7	16.4	265
354	A general method for the synthesis of amines by the rearrangement of allylic trichloroacetimidates. 1,3 Transposition of alcohol and amine functions. <i>Journal of the American Chemical Society</i> , 1976 , 98, 2901-2910	16.4	258
353	Intramolecular alkene arylations for rapid assembly of polycyclic systems containing quaternary centers. A new synthesis of spirooxindoles and other fused and bridged ring systems. <i>Journal of Organic Chemistry</i> , 1987 , 52, 4130-4133	4.2	257
352	Strategic use of pinacol-terminated Prins cyclizations in target-oriented total synthesis. <i>Journal of Organic Chemistry</i> , 2003 , 68, 7143-57	4.2	230
351	Oxalates as Activating Groups for Alcohols in Visible Light Photoredox Catalysis: Formation of Quaternary Centers by Redox-Neutral Fragment Coupling. <i>Journal of the American Chemical Society</i> , 2015 , 137, 11270-11273	16.4	226
350	A concise synthesis of (-)-aplyviolene facilitated by a strategic tertiary radical conjugate addition. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 9576-80	16.4	224
349	Catalytic asymmetric rearrangement of allylic trichloroacetimidates. A practical method for preparing allylic amines and congeners of high enantiomeric purity. <i>Journal of the American Chemical Society</i> , 2003 , 125, 12412-3	16.4	219
348	Allylic and propargylic imidic esters in organic synthesis. <i>Accounts of Chemical Research</i> , 1980 , 13, 218-224	4.3	219
347	Catalytic asymmetric intramolecular aminopalladation: enantioselective synthesis of vinyl-substituted 2-oxazolidinones, 2-imidazolidinones, and 2-pyrrolidinones. <i>Journal of the American Chemical Society</i> , 2002 , 124, 12-3	16.4	217
346	Catalytic Asymmetric Synthesis of Quaternary Carbon Centers. Exploratory Investigations of Intramolecular Heck Reactions of (E)- β , β Unsaturated 2-Haloanilides and Analogues To Form Enantioenriched Spirocyclic Products. <i>Journal of the American Chemical Society</i> , 1998 , 120, 6477-6487	16.4	217

345	Synthetic Strategies toward Natural Products Containing Contiguous Stereogenic Quaternary Carbon Atoms. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 4156-86	16.4	198
344	Direct construction of quaternary carbons from tertiary alcohols via photoredox-catalyzed fragmentation of tert-alkyl N-phthalimidoyl oxalates. <i>Journal of the American Chemical Society</i> , 2013 , 135, 15342-5	16.4	195
343	Enantioselective Total Synthesis of (-)-Ptilomycalin A. <i>Journal of the American Chemical Society</i> , 1995 , 117, 2657-2658	16.4	191
342	Direct Stereo- and Enantiocontrolled Synthesis of Vicinal Stereogenic Quaternary Carbon Centers. Total Syntheses of meso- and (±)-Chimonanthine and (+)-Calycanthine. <i>Journal of the American Chemical Society</i> , 1999 , 121, 7702-7703	16.4	187
341	Catalytic asymmetric synthesis of quaternary carbon centers. Palladium-catalyzed formation of either enantiomer of spirooxindoles and related spirocyclics using a single enantiomer of a chiral diphosphine ligand. <i>Journal of Organic Chemistry</i> , 1992 , 57, 4571-4572	4.2	186
340	Catalytic asymmetric synthesis of quaternary carbons bearing two aryl substituents. Enantioselective synthesis of 3-alkyl-3-aryl oxindoles by catalytic asymmetric intramolecular Heck reactions. <i>Journal of the American Chemical Society</i> , 2003 , 125, 6261-71	16.4	184
339	Total synthesis of the strychnos alkaloid (+)-minfiensine: tandem enantioselective intramolecular Heck-iminium ion cyclization. <i>Journal of the American Chemical Society</i> , 2008 , 130, 5368-77	16.4	183
338	Palladium-catalyzed polyene cyclizations of trienyl triflates. <i>Journal of Organic Chemistry</i> , 1989 , 54, 5846-5848	16.4	183
337	Catalytic Asymmetric Synthesis of Either Enantiomer of the Calabar Alkaloids Physostigmine and Physovenine. <i>Journal of the American Chemical Society</i> , 1998 , 120, 6500-6503	16.4	182
336	Charge as a key component in reaction design. The invention of cationic cyclization reactions of importance in synthesis. <i>Accounts of Chemical Research</i> , 1992 , 25, 352-359	24.3	173
335	Constructing Quaternary Carbons from N-(Acyloxy)phthalimide Precursors of Tertiary Radicals Using Visible-Light Photocatalysis. <i>Journal of Organic Chemistry</i> , 2015 , 80, 6025-36	4.2	172
334	Asymmetric synthesis of pyrrolidinoindolines. Application for the practical total synthesis of (-)-phenserine. <i>Journal of the American Chemical Society</i> , 2004 , 126, 14043-53	16.4	170
333	Catalytic Asymmetric Synthesis of Quaternary Carbon Centers. Exploratory Studies of Intramolecular Heck Reactions of (Z)- β,β -Unsaturated Anilides and Mechanistic Investigations of Asymmetric Heck Reactions Proceeding via Neutral Intermediates. <i>Journal of the American Chemical Society</i> , 1998 , 120, 6488-6499	16.4	166
332	Thermal and mercuric ion catalyzed [3,3]-sigmatropic rearrangement of allylic trichloroacetimidates. 1,3 Transposition of alcohol and amine functions. <i>Journal of the American Chemical Society</i> , 1974 , 96, 597-599	16.4	165
331	Catalytic asymmetric rearrangement of allylic N-aryl trifluoroacetimidates. A useful method for transforming prochiral allylic alcohols to chiral allylic amines. <i>Organic Letters</i> , 2003 , 5, 1809-12	6.2	160
330	Asymmetric synthesis of either enantiomer of opium alkaloids and morphinans. Total synthesis of (-)- and (+)-dihydrocodeinone and (-)- and (+)-morphine. <i>Journal of the American Chemical Society</i> , 1993 , 115, 11028-11029	16.4	152
329	Sequential catalytic asymmetric Heck-iminium ion cyclization: enantioselective total synthesis of the Strychnos alkaloid minfiensine. <i>Journal of the American Chemical Society</i> , 2005 , 127, 10186-7	16.4	151
328	Enantioselective total synthesis of quadrigemine C and psycholeine. <i>Journal of the American Chemical Society</i> , 2002 , 124, 9008-9	16.4	144

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- 326 Fragment Coupling with Tertiary Radicals Generated by Visible-Light Photocatalysis. *Accounts of Chemical Research*, **2016**, 49, 1578-86 24.3 144
- 325 Enantioselective total synthesis of (+)-gliocladiene C: convergent construction of cyclotryptamine-fused polyoxopiperazines and a general approach for preparing epidithiodioxopiperazines from trioxopiperazine precursors. *Journal of the American Chemical Society*, **2011**, 133, 6549-52 16.4 142
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- 323 Synthesis applications of cationic aza-Cope rearrangements. 26. Enantioselective total synthesis of (-)-strychnine. *Journal of the American Chemical Society*, **1993**, 115, 9293-9294 16.4 133
- 322 Palladium-catalyzed polyene cyclizations of dienyl aryl iodides. *Journal of the American Chemical Society*, **1988**, 110, 2328-2329 16.4 133
- 321 Enantiodivergent Total Syntheses of (+)- and (±)-Scopadulcic Acid A. *Journal of the American Chemical Society*, **1999**, 121, 5467-5480 16.4 132
- 320 High Enantioselection in the Rearrangement of Allylic Imidates with Ferrocenyl Oxazoline Catalysts. *Journal of the American Chemical Society*, **1999**, 121, 2933-2934 16.4 124
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- 318 First Enantioselective Catalyst for the Rearrangement of Allylic Imidates to Allylic Amides. *Journal of Organic Chemistry*, **1997**, 62, 1449-1456 4.2 122
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- 315 Enantioselective Construction of Vicinal Stereogenic Quaternary Centers by Dialkylation: Practical Total Syntheses of (+)- and meso-Chimonanthine. *Angewandte Chemie - International Edition*, **2000**, 39, 213-215 16.4 115
- 314 Kinetic and computational analysis of the palladium(II)-catalyzed asymmetric allylic trichloroacetimidate rearrangement: development of a model for enantioselectivity. *Journal of the American Chemical Society*, **2007**, 129, 5031-44 16.4 114
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- 311 Catalytic asymmetric synthesis of chiral allylic esters. *Journal of the American Chemical Society*, **2005**, 127, 2866-7 16.4 110
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- 308 Total synthesis of (+/-)-actinophyllic acid. *Journal of the American Chemical Society*, **2008**, 130, 7568-9 16.4 107
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- 292 Palladium catalyzed enantioselective rearrangement of allylic imidates to allylic amides. *Journal of Organometallic Chemistry*, **1999**, 576, 290-299 2.3 88

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280	Synthetic applications of N-acylamino-1,3-dienes. 10. Importance of allylic interactions and stereoelectronic effects in dictating the steric course of the reaction of iminium ions with nucleophiles. An efficient total synthesis of (+/-)-gephyrotoxin. <i>Journal of the American Chemical Society</i> , 1983 , 105, 5373-5376	16.4	79
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277	Scope and facial selectivity of the Prins-pinacol synthesis of attached rings. <i>Journal of Organic Chemistry</i> , 2006 , 71, 1581-7	4.2	77
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275	The first selective antagonist for a GABAC receptor. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1996 , 6, 2073-2076	2.9	77
274	Synthesis of tert-Leucine-Derived Cobalt Oxazoline Palladacycles. Reversal of Palladation Diastereoselectivity and Application to the Asymmetric Rearrangement of N-Aryl Trifluoroacetimidates. <i>Organometallics</i> , 2005 , 24, 77-81	3.8	76

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265	H3K9me3 Inhibition Improves Memory, Promotes Spine Formation, and Increases BDNF Levels in the Aged Hippocampus. <i>Journal of Neuroscience</i> , 2016 , 36, 3611-22	6.6	72
264	General approach for preparing epidithiodioxopiperazines from trioxopiperazine precursors: enantioselective total syntheses of (+)- and (-)-gliocladiene C, (+)-leptosin D, (+)-T988C, (+)-bionectin A, and (+)-gliocladiene A. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4117-28	16.4	72
263	Total synthesis of asperazine. <i>Journal of the American Chemical Society</i> , 2001 , 123, 9468-9	16.4	72
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- 252 Enantioselective total synthesis of the cyclotryptamine alkaloid idiospermuline. *Angewandte Chemie - International Edition*, **2003**, 42, 2525-8 16.4 64
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