Scott E Denmark

List of Publications by Citations

477 papers	27,124 citations	90 h-index	135 g-index
633 ext. papers	29,631 ext. citations	8.4 avg, IF	7.62 L-index

#	Paper	IF	Citations
477	Catalytic enantioselective addition of allylic organometallic reagents to aldehydes and ketones. *Chemical Reviews*, **2003**, 103, 2763-94	68.1	1017
476	Lewis base catalysis in organic synthesis. *Angewandte Chemie - International Edition*, **2008**, 47, 1560-638	16.4	1010
475	Tandem [4+2]/[3+2] Cycloadditions of Nitroalkenes. *Chemical Reviews*, **1996**, 96, 137-166	68.1	600
474	Palladium-catalyzed cross-coupling reactions of organosilanols and their salts: practical alternatives to boron- and tin-based methods. *Accounts of Chemical Research*, **2008**, 41, 1486-99	24.3	415
473	Catalytic, asymmetric halofunctionalization of alkenes--a critical perspective. *Angewandte Chemie - International Edition*, **2012**, 51, 10938-53	16.4	405
472	Catalytic, enantioselective, vinylogous aldol reactions. *Angewandte Chemie - International Edition*, **2005**, 44, 4682-98	16.4	398
471	Design and implementation of new, silicon-based, cross-coupling reactions: importance of silicon-oxygen bonds. *Accounts of Chemical Research*, **2002**, 35, 835-46	24.3	379
470	Asymmetric catalysis of aldol reactions with chiral lewis bases. *Accounts of Chemical Research*, **2000**, 33, 432-40	24.3	267
469	Cyclopropanation with Diazomethane and Bis(oxazoline)palladium(II) Complexes. *Journal of Organic Chemistry*, **1997**, 62, 3375-3389	4.2	215
468	Lewis base catalysis of bromo- and iodolactonization, and cycloetherification. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 20655-60	11.5	207
467	Asymmetric Allylation of Aldehydes with Chiral Lewis Bases. *Journal of Organic Chemistry*, **1994**, 59, 6161-6163	4.2	205
466	Silicon-based cross-coupling reactions in the total synthesis of natural products. *Angewandte Chemie - International Edition*, **2010**, 49, 2978-86	16.4	197
465	Pre-transmetalation intermediates in the Suzuki-Miyaura reaction revealed: The missing link. *Science*, **2016**, 352, 329-32	33.3	195
464	A comparison of (chloromethyl)- and (iodomethyl)zinc cyclopropanation reagents. *Journal of Organic Chemistry*, **1991**, 56, 6974-6981	4.2	194
463	Catalytic, enantioselective aldol additions to ketones. *Journal of the American Chemical Society*, **2002**, 124, 4233-5	16.4	190
462	Catalytic, enantioselective addition of substituted allylic trichlorosilanes using a rationally-designed 2,2'-bispyrrolidine-based bisphosphoramide. *Journal of the American Chemical Society*, **2001**, 123, 9488-9	16.4	185
461	Lewis base activation of Lewis acids: catalytic, enantioselective addition of silyl ketene acetals to aldehydes. *Journal of the American Chemical Society*, **2005**, 127, 3774-89	16.4	184

460	Lewis base activation of Lewis acids: catalytic enantioselective allylation and propargylation of aldehydes. *Journal of the American Chemical Society*, **2001**, 123, 6199-200	16.4	177
459	Enantioselective bromocycloetherification by Lewis base/chiral Brønsted acid cooperative catalysis. *Organic Letters*, **2012**, 14, 256-9	6.2	172
458	Highly Stereospecific, Cross-Coupling Reactions of Alkenylsilacyclobutanes. *Journal of the American Chemical Society*, **1999**, 121, 5821-5822	16.4	171
457	Catalytic Epoxidation of Alkenes with Oxone. *Journal of Organic Chemistry*, **1995**, 60, 1391-1407	4.2	166
456	Prediction of higher-selectivity catalysts by computer-driven workflow and machine learning. *Science*, **2019**, 363,	33.3	165
455	On the mechanism of the Skraup-Doebner-Von Miller quinoline synthesis. *Journal of Organic Chemistry*, **2006**, 71, 1668-76	4.2	163
454	Enantioselective Ring Opening of Epoxides with Silicon Tetrachloride in the Presence of a Chiral Lewis Base. *Journal of Organic Chemistry*, **1998**, 63, 2428-2429	4.2	157
453	Asymmetric Addition of Organolithium Reagents to Imines. *Journal of the American Chemical Society*, **1994**, 116, 8797-8798	16.4	157
452	Highly stereospecific, palladium-catalyzed cross-coupling of alkenylsilanols. *Organic Letters*, **2000**, 2, 565-8	6.2	153
451	On the absolute configurational stability of bromonium and chloronium ions. *Journal of the American Chemical Society*, **2010**, 132, 1232-3	16.4	149
450	Katalytische enantioselektive vinyloge Aldolreaktionen. *Angewandte Chemie*, **2005**, 117, 4760-4777	3.6	149
449	Chemistry of Trichlorosilyl Enolates. 1. New Reagents for Catalytic, Asymmetric Aldol Additions. *Journal of the American Chemical Society*, **1996**, 118, 7404-7405	16.4	146
448	Catalytic asymmetric thiofunctionalization of unactivated alkenes. *Journal of the American Chemical Society*, **2011**, 133, 15308-11	16.4	145
447	The first catalytic, asymmetric alpha-additions of isocyanides. Lewis-base-catalyzed, enantioselective Passerini-type reactions. *Journal of the American Chemical Society*, **2003**, 125, 7825-7	16.4	144
446	Palladium-catalyzed cross-coupling reactions of silanolates: a paradigm shift in silicon-based cross-coupling reactions. *Chemistry - A European Journal*, **2006**, 12, 4954-63	4.8	140
445	Preparation of Chiral Bisoxazolines: Observations on the Effect of Substituents. *Journal of Organic Chemistry*, **1995**, 60, 4884-4892	4.2	137
444	Lewis base activation of Lewis acids. Vinylogous aldol reactions. *Journal of the American Chemical Society*, **2003**, 125, 7800-1	16.4	135
443	Highly stereoselective hydrocarbation of terminal alkynes via Pt-catalyzed hydrosilylation/Pd-catalyzed cross-coupling reactions. *Organic Letters*, **2001**, 3, 1073-6	6.2	131

442	Catalytic, stereospecific syn-dichlorination of alkenes. *Nature Chemistry*, **2014**, 7, 146-52	17.6	130
441	Preparative and mechanistic studies toward the rational development of catalytic, enantioselective selenoetherification reactions. *Journal of the American Chemical Society*, **2010**, 132, 15752-65	16.4	130
440	Cross-coupling reactions of aromatic and heteroaromatic silanolates with aromatic and heteroaromatic halides. *Journal of the American Chemical Society*, **2009**, 131, 3104-18	16.4	130
439	Lewis base activation of lewis acids. Addition of silyl ketene acetals to aldehydes. *Journal of the American Chemical Society*, **2002**, 124, 13405-7	16.4	130
438	Sequential cross-coupling of 1,4-bissilylbutadienes: synthesis of unsymmetrical 1,4-disubstituted 1,3-butadienes. *Journal of the American Chemical Society*, **2005**, 127, 8004-5	16.4	127
437	The Chemistry of Trichlorosilyl Enolates. 2. Highly-Selective Asymmetric Aldol Additions of Ketone Enolates. *Journal of the American Chemical Society*, **1997**, 119, 2333-2334	16.4	126
436	Fluoride-free cross-coupling of organosilanols. *Journal of the American Chemical Society*, **2001**, 123, 6439-40	16.4	126
435	Chemistry of Enoxysilacyclobutanes: Highly Selective Uncatalyzed Aldol Additions. *Journal of the American Chemical Society*, **1994**, 116, 7026-7043	16.4	126
434	On the stereochemistry of allylmetal-aldehyde condensations. Preliminary communication. *Helvetica Chimica Acta*, **1983**, 66, 1655-1660	2	126
433	The Development of Chiral, Nonracemic Dioxiranes for the Catalytic, Enantioselective Epoxidation of Alkenes. *Synlett*, **1999**, 1999, 847-859	2.2	124
432	Ligand-mediated addition of organometallic reagents to azomethine functions. *Chemical Communications*, **1996**, 999	5.8	124
431	Studies on the mechanism and origin of stereoselective opening of chiral dioxane acetals. *Journal of the American Chemical Society*, **1991**, 113, 8089-8110	16.4	123
430	Catalytic, Stereoselective Dihalogenation of Alkenes: Challenges and Opportunities. *Angewandte Chemie - International Edition*, **2015**, 54, 15642-82	16.4	118
429	The First Catalytic, Diastereoselective, and Enantioselective Crossed-Aldol Reactions of Aldehydes We are grateful to the National Science Foundation for generous financial support (NSF CHE 9803124).. *Angewandte Chemie - International Edition*, **2001**, 40, 4759-4762	16.4	116
428	Lewis base catalyzed, enantioselective aldol addition of methyl trichlorosilyl ketene acetal to ketones. *Journal of Organic Chemistry*, **2005**, 70, 5235-48	4.2	114
427	Total synthesis of RK-397. *Journal of the American Chemical Society*, **2005**, 127, 8971-3	16.4	114
426	Chiral fluoro ketones for catalytic asymmetric epoxidation of alkenes with oxone. *Journal of Organic Chemistry*, **2002**, 67, 3479-86	4.2	112
425	Mild and general cross-coupling of (alpha-Alkoxyvinyl)silanols and -silyl hydrides. *Organic Letters*, **2000**, 2, 3221-4	6.2	111

424	Why You Really Should Consider Using Palladium-Catalyzed Cross-Coupling of Silanols and Silanolates. *Organic Process Research and Development*, **2015**, 19, 982-994	3.9	110
423	Katalytische asymmetrische Halogenfunktionalisierung von Alkenen eine kritische Betrachtung. *Angewandte Chemie*, **2012**, 124, 11098-11113	3.6	110
422	Structural, Kinetic, and Computational Characterization of the Elusive Arylpalladium(II)boronate Complexes in the Suzuki-Miyaura Reaction. *Journal of the American Chemical Society*, **2017**, 139, 3805-3821	16.4	107
421	Total synthesis of papulacandin D. *Journal of the American Chemical Society*, **2007**, 129, 2774-6	16.4	107
420	Chiral phosphoramide-catalyzed enantioselective addition of allylic trichlorosilanes to aldehydes. Preparative studies with bidentate phosphorus-based amides. *Journal of Organic Chemistry*, **2006**, 71, 1523-36	4.2	107
419	ExCage. *Journal of the American Chemical Society*, **2014**, 136, 10669-82	16.4	106
418	Catalytic Epoxidation of Alkenes with Oxone. 2. Fluoro Ketones. *Journal of Organic Chemistry*, **1997**, 62, 8288-8289	4.2	106
417	Catalytic, enantioselective alpha-additions of isocyanides: Lewis base catalyzed Passerini-type reactions. *Journal of Organic Chemistry*, **2005**, 70, 9667-76	4.2	105
416	Asymmetric construction of quaternary centers by enantioselective allylation: application to the synthesis of the serotonin antagonist LY426965. *Organic Letters*, **2002**, 4, 1951-3	6.2	104
415	Lewis base catalyzed, enantioselective, intramolecular sulfenoamination of olefins. *Journal of the American Chemical Society*, **2014**, 136, 8915-8	16.4	103
414	Organocerium additions to SAMP-hydrazones: general synthesis of chiral amines. *Journal of the American Chemical Society*, **1987**, 109, 2224-2225	16.4	103
413	Lewis base catalysis of the Mukaiyama directed aldol reaction: 40 years of inspiration and advances. *Angewandte Chemie - International Edition*, **2013**, 52, 9086-96	16.4	102
412	Mechanistic, crystallographic, and computational studies on the catalytic, enantioselective sulfenofunctionalization of alkenes. *Nature Chemistry*, **2014**, 6, 1056-64	17.6	101
411	Synthesis and reactivity of enantiomerically enriched thiiranium ions. *Chemistry - A European Journal*, **2009**, 15, 11737-45	4.8	101
410	Catalytic, Enantioselective Cyclopropanation of Allylic Alcohols. Substrate Generality. *Journal of Organic Chemistry*, **1997**, 62, 584-594	4.2	100
409	Total synthesis of (+)-brasilenyne. Application of an intramolecular silicon-assisted cross-coupling reaction. *Journal of the American Chemical Society*, **2004**, 126, 12432-40	16.4	100
408	Effect of ligand structure in the bisoxazoline mediated asymmetric addition of methyllithium to imines. *Journal of Organic Chemistry*, **2000**, 65, 5875-8	4.2	99
407	Stereochemistry of allylmetal-aldehyde condensations. 2. Allylstannanes. *Journal of the American Chemical Society*, **1984**, 106, 7970-7971	16.4	99

406	Observation of direct sulfenium and selenenium group transfer from thiiranium and seleniranium ions to alkenes. *Journal of the American Chemical Society*, **2009**, 131, 3490-2	16.4	98
405	Enantioselective Total Syntheses of (+)-Castanospermine, (+)-6-Epicastanospermine, (+)-Australine, and (+)-3-Epiaustraline. *Journal of the American Chemical Society*, **1999**, 121, 3046-3056	16.4	98
404	Lewis base activation of Lewis acids: development of a Lewis base catalyzed selenolactonization. *Organic Letters*, **2007**, 9, 3801-4	6.2	97
403	On the Mechanism of Catalytic, Enantioselective Allylation of Aldehydes with Chlorosilanes and Chiral Lewis Bases. *Journal of the American Chemical Society*, **2000**, 122, 12021-12022	16.4	97
402	Stereochemical and spectroscopic studies on the reaction of allylstannanes with aldehydes. *Tetrahedron*, **1989**, 45, 1053-1065	2.4	97
401	The interplay of invention, discovery, development, and application in organic synthetic methodology: a case study. *Journal of Organic Chemistry*, **2009**, 74, 2915-27	4.2	94
400	Lewis base activation of Lewis acids: catalytic, enantioselective vinylogous aldol addition reactions. *Journal of Organic Chemistry*, **2007**, 72, 5668-88	4.2	94
399	A systematic investigation of quaternary ammonium ions as asymmetric phase-transfer catalysts. Application of quantitative structure activity/selectivity relationships. *Journal of Organic Chemistry*, **2011**, 76, 4337-57	4.2	93
398	Enantioselective construction of quaternary stereogenic carbons by the Lewis base catalyzed additions of silyl ketene imines to aldehydes. *Journal of the American Chemical Society*, **2007**, 129, 14864-5	16.4	93
397	Cross-coupling reactions of arylsilanols with substituted aryl halides. *Organic Letters*, **2003**, 5, 1357-60	6.2	93
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395	The Chemistry of Trichlorosilyl Enolates. Aldol Addition Reactions of Methyl Ketones. *Journal of the American Chemical Society*, **2000**, 122, 8837-8847	16.4	92
394	Chiral Phosphoramide-Catalyzed Aldol Additions of Ketone Enolates. Preparative Aspects. *Journal of the American Chemical Society*, **1999**, 121, 4982-4991	16.4	92
393	Cross-coupling of aromatic bromides with allylic silanolate salts. *Journal of the American Chemical Society*, **2008**, 130, 16382-93	16.4	91
392	Palladium-catalyzed silylation of aryl bromides leading to functionalized aryldimethylsilanols. *Organic Letters*, **2003**, 5, 3483-6	6.2	91
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390	A systematic investigation of quaternary ammonium ions as asymmetric phase-transfer catalysts. Synthesis of catalyst libraries and evaluation of catalyst activity. *Journal of Organic Chemistry*, **2011**, 76, 4260-336	4.2	90
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379	Sequential ring-closing metathesis and silicon-assisted cross-coupling reactions: stereocontrolled synthesis of highly substituted unsaturated alcohols. *Organic Letters*, **2001**, 3, 1749-52	6.2	82
378	Asymmetric Construction of a Quaternary Carbon Center by Tandem [4 + 2]/[3 + 2] Cycloaddition of a Nitroalkene. The Total Synthesis of (−)-Mesembrine. *Journal of Organic Chemistry*, **1997**, 62, 1675-1686	4.2	81
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376	Tandem double-intramolecular [4+2]/[3+2] cycloadditions of nitroalkenes. Studies toward a total synthesis of daphnilactone B: piperidine ring construction. *Journal of Organic Chemistry*, **2006**, 71, 593-605	4.2	79
375	Fluoride-promoted cross-coupling reactions of alkenylsilanols. Elucidation of the mechanism through spectroscopic and kinetic analysis. *Journal of the American Chemical Society*, **2004**, 126, 4865-75	16.4	78
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373	Synthesis of 3,4,5-trisubstituted isoxazoles via sequential [3 + 2] cycloaddition/silicon-based cross-coupling reactions. *Journal of Organic Chemistry*, **2005**, 70, 2839-42	4.2	77
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371	Spectroscopic studies on the structure and conformation of Lewis acid-aldehyde complexes. *Journal of the American Chemical Society*, **1993**, 115, 3133-3139	16.4	75

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368	On the Lewis-acid-induced addition of allylstannanes to aldehydes: a spectroscopic investigation. *Journal of the American Chemical Society*, **1988**, 110, 984-986	16.4	74
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366	Enantioselective, Lewis Base-Catalyzed Sulfenocyclization of Polyenes. *Journal of the American Chemical Society*, **2018**, 140, 3569-3573	16.4	72
365	Elucidating the Role of the Boronic Esters in the Suzuki-Miyaura Reaction: Structural, Kinetic, and Computational Investigations. *Journal of the American Chemical Society*, **2018**, 140, 4401-4416	16.4	72
364	Catalytic, enantioselective sulfenylation of ketone-derived enoxysilanes. *Journal of the American Chemical Society*, **2014**, 136, 13016-28	16.4	72
363	Tandem [4 + 2]/[3 + 2] Cycloadditions of Nitroalkenes. 11. The Synthesis of (+)-Crotanecine. *Journal of the American Chemical Society*, **1997**, 119, 125-137	16.4	72
362	Lewis base catalyzed enantioselective aldol addition of acetaldehyde-derived silyl enol ether to aldehydes. *Journal of Organic Chemistry*, **2005**, 70, 10190-3	4.2	71
361	Intramolecular silicon-assisted cross-coupling reactions: general synthesis of medium-sized rings containing a 1,3-cis-cis diene unit. *Journal of the American Chemical Society*, **2002**, 124, 2102-3	16.4	71
360	Inter- and intramolecular [4 + 2] cycloadditions of nitroalkenes with olefins. 2-Nitrostyrenes. *Journal of Organic Chemistry*, **1992**, 57, 4912-4924	4.2	71
359	Silicon-Directed Nazarov Cyclizations. Part V. Substituent and heteroatom effects on the reaction. *Helvetica Chimica Acta*, **1988**, 71, 168-194	2	71
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357	Palladium-catalyzed cross-coupling of five-membered heterocyclic silanolates. *Journal of Organic Chemistry*, **2008**, 73, 1440-55	4.2	70
356	Synthesis of (+)-1-epiaustraline. *Journal of Organic Chemistry*, **2001**, 66, 4276-84	4.2	70
355	The vinylogous anomeric effect in 3-alkyl-2-chlorocyclohexanone oximes and oxime ethers. *Journal of the American Chemical Society*, **1990**, 112, 3466-3474	16.4	69
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351	Intramolecular silicon-assisted cross-coupling: total synthesis of (+)-brasilenyne. *Journal of the American Chemical Society*, **2002**, 124, 15196-7	16.4	68
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349	Asymmetric electrophilic amination of chiral phosphorus-stabilized anions. *Tetrahedron*, **1992**, 48, 2191-2208	2.4	68
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347	Catalytic, enantioselective, intramolecular carbosulfenylation of olefins. Mechanistic aspects: a remarkable case of negative catalysis. *Journal of the American Chemical Society*, **2014**, 136, 3655-63	16.4	67
346	Total Synthesis of (+)-Papulacandin D. *Tetrahedron*, **2010**, 66, 4745-4759	2.4	67
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343	Solution and Solid-State Studies of a Chiral Zinc-Sulfonamide Complex Relevant to Enantioselective Cyclopropanations. *Angewandte Chemie - International Edition*, **1998**, 37, 1149-1151	16.4	66
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341	Memory of Chirality: Asymmetric Induction Based on the Dynamic Chirality of Enolates. *Topics in Stereochemistry*, **2003**, 175-205		66
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338	Allylation of Carbonyls: Methodology and Stereochemistry299-401		65
337	Synthesis of (-)-7-epiaustraline and (-)-1-epicastanospermine. *Journal of Organic Chemistry*, **2000**, 65, 2887-96	4.2	64
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333	Tandem [4 + 2]/[3 + 2] Cycloadditions of Nitroalkenes. 13. The Synthesis of (−)-Detoxinine. *Journal of Organic Chemistry*, **1997**, 62, 1668-1674	4.2	63
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330	Palladium-catalyzed cross-coupling reactions of 2-indolyldimethylsilanols with substituted aryl halides. *Organic Letters*, **2004**, 6, 3649-52	6.2	62
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