Barry M Trost

List of Publications by Citations

1,034 papers	80,914 citations	129 h-index	222 g-index
1,240 ext. papers	87,056 ext. citations	11.4 avg, IF	8.59 L-index

#	Paper	IF	Citations
1034	Asymmetric Transition Metal-Catalyzed Allylic Alkylations. *Chemical Reviews*, **1996**, 96, 395-422	68.1	2615
1033	Asymmetric transition-metal-catalyzed allylic alkylations: applications in total synthesis. *Chemical Reviews*, **2003**, 103, 2921-44	68.1	2255
1032	Atom Economy A Challenge for Organic Synthesis: Homogeneous Catalysis Leads the Way. *Angewandte Chemie International Edition in English*, **1995**, 34, 259-281		2159
1031	On inventing reactions for atom economy. *Accounts of Chemical Research*, **2002**, 35, 695-705	24.3	1111
1030	Asymmetric Syntheses of Oxindole and Indole Spirocyclic Alkaloid Natural Products. *Synthesis*, **2009**, 2009, 3003-3025	2.9	917
1029	Catalytic Enantioselective Construction of All-Carbon Quaternary Stereocenters. *Synthesis*, **2006**, 2006, 369-396	2.9	905
1028	Non-metathesis ruthenium-catalyzed C-C bond formation. *Chemical Reviews*, **2001**, 101, 2067-96	68.1	699
1027	Green chemistry for chemical synthesis. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 13197-202	11.5	652
1026	The direct catalytic asymmetric aldol reaction. *Chemical Society Reviews*, **2010**, 39, 1600-32	58.5	616
1025	New rules of selectivity: allylic alkylations catalyzed by palladium. *Accounts of Chemical Research*, **1980**, 13, 385-393	24.3	576
1024	Atomökonomische Synthesen Eine Herausforderung in der Organischen Chemie: die Homogenkatalyse als wegweisende Methode. *Angewandte Chemie*, **1995**, 107, 285-307	3.6	545
1023	On the use of the O-methylmandelate ester for establishment of absolute configuration of secondary alcohols. *Journal of Organic Chemistry*, **1986**, 51, 2370-2374	4.2	543
1022	Ruthenium-catalyzed reactions--a treasure trove of atom-economic transformations. *Angewandte Chemie - International Edition*, **2005**, 44, 6630-66	16.4	472
1021	Palladium-catalyzed enantioselective C-3 allylation of 3-substituted-1H-indoles using trialkylboranes. *Journal of the American Chemical Society*, **2006**, 128, 6314-5	16.4	470
1020	A modular approach for ligand design for asymmetric allylic alkylations via enantioselective palladium-catalyzed ionizations. *Journal of the American Chemical Society*, **1992**, 114, 9327-9343	16.4	462
1019	Asymmetric allylic alkylation, an enabling methodology. *Journal of Organic Chemistry*, **2004**, 69, 5813-37	4.2	457
1018	New synthetic reactions. Sulfenylations and dehydrosulfenylations of esters and ketones. *Journal of the American Chemical Society*, **1976**, 98, 4887-4902	16.4	424

1017	Predicting the stereochemistry of diphenylphosphino benzoic acid (DPPBA)-based palladium-catalyzed asymmetric allylic alkylation reactions: a working model. *Accounts of Chemical Research*, **2006**, 39, 747-60	24.3	419
1016	[3+2] Cycloaddition Approaches to Five-Membered Rings via Trimethylenemethane and Its Equivalents [New Synthetic Methods (55)]. *Angewandte Chemie International Edition in English*, **1986**, 25, 1-20		419
1015	A Direct Catalytic Enantioselective Aldol Reaction via a Novel Catalyst Design. *Journal of the American Chemical Society*, **2000**, 122, 12003-12004	16.4	409
1014	Palladium-catalyzed cycloisomerizations of enynes and related reactions. *Accounts of Chemical Research*, **1990**, 23, 34-42	24.3	408
1013	The Enantioselective Addition of Alkyne Nucleophiles to Carbonyl Groups. *Advanced Synthesis and Catalysis*, **2009**, 351, 963	5.6	398
1012	Enantioselective construction of spirocyclic oxindolic cyclopentanes by palladium-catalyzed trimethylenemethane-[3+2]-cycloaddition. *Journal of the American Chemical Society*, **2007**, 129, 12396-7	16.4	370
1011	Transition Metal Catalyzed Cycloisomerizations. *Synlett*, **1998**, 1998, 1-16	2.2	369
1010	Chemoselective oxidation of sulfides to sulfones with potassium hydrogen persulfate. *Tetrahedron Letters*, **1981**, 22, 1287-1290	2	364
1009	.alpha.-Sulfenylated carbonyl compounds in organic synthesis. *Chemical Reviews*, **1978**, 78, 363-382	68.1	363
1008	Designing a Receptor for Molecular Recognition in a Catalytic Synthetic Reaction: Allylic Alkylation. *Accounts of Chemical Research*, **1996**, 29, 355-364	24.3	359
1007	Organopalladium intermediates in organic synthesis. *Tetrahedron*, **1977**, 33, 2615-2649	2.4	349
1006	Addition of Metalloid Hydrides to Alkynes: Hydrometallation with Boron, Silicon, and Tin. *Synthesis*, **2005**, 2005, 853-887	2.9	324
1005	A model for metal-templated catalytic asymmetric induction via .pi.-allyl fragments. *Organometallics*, **1985**, 4, 1143-1145	3.8	319
1004	Catalytic asymmetric allylic alkylation employing heteroatom nucleophiles: a powerful method for C□X bond formation. *Chemical Science*, **2010**, 1, 427	9.4	313
1003	A direct catalytic asymmetric mannich-type reaction to syn-amino alcohols. *Journal of the American Chemical Society*, **2003**, 125, 338-9	16.4	309
1002	A dinuclear Zn catalyst for the asymmetric nitroaldol (Henry) reaction. *Angewandte Chemie - International Edition*, **2002**, 41, 861-3	16.4	307
1001	Palladium-Catalyzed Additions of Terminal Alkynes to Acceptor Alkynes. *Journal of the American Chemical Society*, **1997**, 119, 698-708	16.4	302
1000	Alkyne hydrosilylation catalyzed by a cationic ruthenium complex: efficient and general trans addition. *Journal of the American Chemical Society*, **2005**, 127, 17644-55	16.4	299

999	New synthetic reactions. Allylic alkylation. *Journal of the American Chemical Society*, **1973**, 95, 292-294	16.4	288
998	Asymmetric Aldol reaction via a dinuclear zinc catalyst: alpha-hydroxyketones as donors. *Journal of the American Chemical Society*, **2001**, 123, 3367-8	16.4	272
997	Pd asymmetric allylic alkylation (AAA). A powerful synthetic tool. *Chemical and Pharmaceutical Bulletin*, **2002**, 50, 1-14	1.9	268
996	Cyclizations via Palladium-Catalyzed Allylic Alkylations [New Synthetic Methods (79)]. *Angewandte Chemie International Edition in English*, **1989**, 28, 1173-1192		257
995	Regio- and enantioselective Pd-catalyzed allylic alkylation of ketones through allyl enol carbonates. *Journal of the American Chemical Society*, **2005**, 127, 2846-7	16.4	246
994	Palladium-catalyzed decarboxylative asymmetric allylic alkylation of enol carbonates. *Journal of the American Chemical Society*, **2009**, 131, 18343-57	16.4	243
993	Allylic alkylation. Palladium-catalyzed substitutions of allylic carboxylates. Stereo- and regiochemistry. *Journal of the American Chemical Society*, **1980**, 102, 4730-4743	16.4	243
992	Effect of ligand structure on the zinc-catalyzed Henry reaction. Asymmetric syntheses of (-)-denopamine and (-)-arbutamine. *Organic Letters*, **2002**, 4, 2621-3	6.2	238
991	Markovnikov alkyne hydrosilylation catalyzed by ruthenium complexes. *Journal of the American Chemical Society*, **2001**, 123, 12726-7	16.4	238
990	Chemoselectivity in the ruthenium-catalyzed redox isomerization of allyl alcohols. *Journal of the American Chemical Society*, **1993**, 115, 2027-2036	16.4	229
989	Dinuclear Zn-catalyzed asymmetric alkynylation of unsaturated aldehydes. *Journal of the American Chemical Society*, **2006**, 128, 8-9	16.4	228
988	Palladium-Catalyzed Asymmetric Alkylation of Ketone Enolates. *Journal of the American Chemical Society*, **1999**, 121, 6759-6760	16.4	226
987	Asymmetric Molybdenum-Catalyzed Alkylations. *Journal of the American Chemical Society*, **1998**, 120, 1104-1105	16.4	223
986	Asymmetric induction in allylic alkylations of 3-(acyloxy)cycloalkenes. *Journal of the American Chemical Society*, **1994**, 116, 4089-4090	16.4	219
985	Dynamic Kinetic Asymmetric Transformation of Diene Monoepoxides: A Practical Asymmetric Synthesis of Vinylglycinol, Vigabatrin, and Ethambutol. *Journal of the American Chemical Society*, **2000**, 122, 5968-5976	16.4	214
984	Total synthesis of bryostatin 16 using atom-economical and chemoselective approaches. *Nature*, **2008**, 456, 485-8	50.4	212
983	Elaboration of Conjugated Alkenes Initiated by Insertion into a Vinylic C-H Bond. *Journal of the American Chemical Society*, **1995**, 117, 5371-5372	16.4	212
982	Metal-mediated approach to enynes. *Journal of the American Chemical Society*, **1987**, 109, 3486-3487	16.4	211

981	Ruthenium-Catalyzed Intramolecular [5 + 2] Cycloadditions. *Journal of the American Chemical Society*, **2000**, 122, 2379-2380	16.4	209
980	Neutral alkylations via palladium(0) catalysis. *Journal of the American Chemical Society*, **1981**, 103, 5969-5972	16.4	206
979	Nucleophilic □-Addition to Alkynoates. A Synthesis of Dehydroamino Acids. *Journal of the American Chemical Society*, **1997**, 119, 7595-7596	16.4	202
978	The palladium catalyzed asymmetric addition of oxindoles and allenes: an atom-economical versatile method for the construction of chiral indole alkaloids. *Journal of the American Chemical Society*, **2011**, 133, 20611-22	16.4	200
977	A chemoselective reduction of alkynes to (E)-alkenes. *Journal of the American Chemical Society*, **2002**, 124, 7922-3	16.4	198
976	Atom economy. Palladium-catalyzed formation of coumarins by addition of phenols and alkynoates via a net C-H insertion. *Journal of the American Chemical Society*, **2003**, 125, 4518-26	16.4	195
975	Palladium-catalyzed asymmetric allylation of prochiral nucleophiles: synthesis of 3-allyl-3-aryl oxindoles. *Angewandte Chemie - International Edition*, **2004**, 44, 308-10	16.4	194
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973	Internal redox catalyzed by triphenylphosphine. *Journal of the American Chemical Society*, **1992**, 114, 7933-7935	16.4	193
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971	Molybdenum-catalyzed asymmetric allylation of 3-alkyloxindoles: application to the formal total synthesis of (-)-physostigmine. *Journal of the American Chemical Society*, **2006**, 128, 4590-1	16.4	190
970	Palladium-catalyzed diastereo- and enantioselective synthesis of substituted cyclopentanes through a dynamic kinetic asymmetric formal [3+2]-cycloaddition of vinyl cyclopropanes and alkylidene azlactones. *Angewandte Chemie - International Edition*, **2011**, 50, 6167-70	16.4	183
969	Asymmetric Friedel-Crafts alkylation of pyrroles with nitroalkenes using a dinuclear zinc catalyst. *Journal of the American Chemical Society*, **2008**, 130, 2438-9	16.4	183
968	Novel "Umpolung" in C-C Bond Formation Catalyzed by Triphenylphosphine. *Journal of the American Chemical Society*, **1994**, 116, 3167-3168	16.4	183
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965	A direct catalytic asymmetric Mannich-type reaction via a dinuclear zinc catalyst: synthesis of either anti- or syn-alpha-hydroxy-beta-amino ketones. *Journal of the American Chemical Society*, **2006**, 128, 2778-9	16.4	181
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962	Palladium-catalyzed dynamic kinetic asymmetric transformations of vinyl aziridines with nitrogen heterocycles: rapid access to biologically active pyrroles and indoles. *Journal of the American Chemical Society*, **2010**, 132, 15800-7	16.4	180
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958	Molybdenum catalysts for allylic alkylation. *Journal of the American Chemical Society*, **1982**, 104, 5543-5545	16.4	176
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955	Mo-catalyzed regio-, diastereo-, and enantioselective allylic alkylation of 3-aryloxindoles. *Journal of the American Chemical Society*, **2007**, 129, 14548-9	16.4	171
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950	Metal vinylidenes as catalytic species in organic reactions. *Chemistry - an Asian Journal*, **2008**, 3, 164-94	4.5	168
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948	New conjunctive reagents. 2-Acetoxymethyl-3-allyltrimethylsilane for methylenecyclopentane annulations catalyzed by palladium(0). *Journal of the American Chemical Society*, **1979**, 101, 6429-6432	16.4	167
947	Palladium-catalyzed asymmetric addition of pronucleophiles to allenes. *Journal of the American Chemical Society*, **2003**, 125, 4438-9	16.4	165
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935	Some aspects of organosulfur-mediated synthetic methods. *Accounts of Chemical Research*, **1978**, 11, 453-461	24.3	158
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921	A theoretical study on the mechanism, regiochemistry, and stereochemistry of hydrosilylation catalyzed by cationic ruthenium complexes. *Journal of the American Chemical Society*, **2003**, 125, 11578-82	16.4	141
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