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## Proline-Catalyzed Direct Asymmetric Aldol Reactions

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2265	Asymmetric Conjugate Addition of Azide to $\alpha,\beta$ -Unsaturated Carbonyl Compounds Catalyzed by Simple Peptides. <b>2000</b> , 112, 3781-3784		49
2264	First Catalytic Aldol-Transfer Reaction via Aluminum Enolates: A New Way To Generate Aldol Adducts of Aldehydes from Aldol Adducts of Ketones This work was partially supported by the TEKES research foundation. <b>2000</b> , 39, 3422-3425		22
2263	Asymmetric Conjugate Addition of Azide to $\alpha,\beta$ -Unsaturated Carbonyl Compounds Catalyzed by Simple Peptides This research was supported by the U.S. National Institutes of Health (GM-57595). We are also grateful to the U.S. National Science Foundation for generous support in the form of a CAREER Award (CHE-9874963). In addition, we thank DuPont, Eli Lilly, Glaxo-Wellcome, and the Merck Chemistry Council for research support. S.J.M. is a Fellow of the		133
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2096	The Origin of Stereoselectivity in Primary Amino Acid Catalyzed Intermolecular Aldol Reactions. <b>2005</b> , 117, 7190-7194	31
2095	Asymmetric Aldol Reaction Using Immobilized Proline on Mesoporous Support. <b>2005</b> , 347, 1395-1403	111
2094	The Direct, Enantioselective, One-Pot, Three-Component, Cross-Mannich Reaction of Aldehydes: The Reason for the Higher Reactivity of Aldimine versus Aldehyde in Proline-Mediated Mannich and Aldol Reactions. <b>2005</b> , 347, 1595-1604	43
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2092	Introduction: Organocatalysis ðFrom Biomimetic Concepts to Powerful Methods for Asymmetric Synthesis. <b>2005</b> , 1-8	9
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2083	. <b>2005</b> ,	1048
2082	Engineering nanospaces: ordered mesoporous silicas as model substrates for building complex hybrid materials. <b>2005</b> , 16, S458-75	99
2081	C2-symmetric bisprolinamide as a highly efficient catalyst for direct aldol reaction. <b>2005</b> , 7, 5321-3	163
2080	Direct aldol reactions catalyzed by 1,1,3,3-tetramethylguanidine lactate without solvent. <b>2005</b> , 7, 514	99
2079	Enantioselective organocatalytic Michael addition of malonate esters to nitro olefins using bifunctional cinchonine derivatives. <b>2005</b> , 4481-3	443
2078	Theoretical studies of stereoselectivities of intramolecular aldol cyclizations catalyzed by amino acids. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 11294-302	16.4 106
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2076	Catalytic chemoselective addition of acetonitrile to enolizable aldehydes with cationic Ru complex/DBU combination. <b>2005</b> , 3600-2	45
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2059	Chapter 2 Synthesis of geldanamycin using glycolate aldol reactions. <b>2005</b> , 6, 38-70	
2058	A practical synthesis of (S)-2-cyclohexyl-2-phenylglycolic acid via organocatalytic asymmetric construction of a tetrasubstituted carbon center. <b>2005</b> , 7, 5103-5	102
2057	Imidazolium salts as catalysts for the aza-Diels-Alder reaction. <b>2005</b> , 3, 239-44	38
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2055	A mechanistic rationalization of unusual kinetic behavior in proline-mediated C-O and C-N bond-forming reactions. <b>2006</b> , 4291-3	33
2054	The small peptide-catalyzed direct asymmetric aldol reaction in water. <b>2006</b> , 4, 38-40	171
2053	Dual mechanism of zinc-proline catalyzed aldol reactions in water. <b>2006</b> , 1482-4	71
2052	ESI-MS study on the aldol reaction catalyzed by L-proline. <b>2006</b> , 1539-41	86

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2046	A direct organocatalytic entry to sphingoids: asymmetric synthesis of D-arabino- and L-ribo-phytosphingosine. <b>2006</b> , 655-7	64
2045	Hydrosilylation of ketones catalyzed by C <sub>2</sub> -symmetric proline-derived complexes. <b>2006</b> , 84, 1416-1425	16
2044	A direct, efficient synthesis of unsymmetrically substituted bis(arylidene)alkanones. <b>2006</b> , 8, 1042	17
2043	Chemistry. The organic approach to asymmetric catalysis. <b>2006</b> , 313, 1584-6	279
2042	Design of highly enantioselective organocatalysts based on molecular recognition. <b>2006</b> , 8, 1263-6	116
2041	Catalytic Enantioselective Aldol Addition Reactions. <b>2006</b> , 1-216	8
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2039	Michael addition of thiols to alpha-enones in ionic liquids with and without organocatalysts. <b>2006</b> , 4, 1420-4	44
2038	Total synthesis of ent-dihydrocorynantheol by using a proline-catalyzed asymmetric addition reaction. <b>2006</b> , 8, 1533-5	125
2037	Catalysis in Ionic Liquids. <b>2006</b> , 49, 153-237	87
2036	Total synthesis of apratoxin A. <b>2006</b> , 8, 531-4	82
2035	The ying and yang of asymmetric aminocatalysis. <b>2006</b> , 819-24	741
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2032	Asymmetric aldol reactions catalyzed by tryptophan in water. <b>2006</b> , 2801-3	176
2031	Sterically and electronically tunable and bifunctional organocatalysts: design and application in asymmetric aldol reaction of cyclic ketones with aldehydes. <b>2006</b> , 71, 8198-202	96
2030	Reconstructed hydrotalcite as a highly active heterogeneous base catalyst for carbon-carbon bond formations in the presence of water. <b>2006</b> , 71, 5440-7	123
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2028	Chiral lanthanum- $\pi$ -thium-Binaphthol complex covalently bonded to silica and MCM-41 for enantioselective nitroaldol (Henry) reaction. <b>2006</b> , 244, 110-117	62
2027	Novel brñsted acid-catalyzed Michael-type Friedel-Crafts reactions of indoles and acetalization of aldehydes. <b>2006</b> , 249, 129-134	28
2026	An efficient method for direct aldol reactions catalyzed by pyrrolidine/catechol. <b>2006</b> , 246, 136-139	10
2025	The $\beta$ -effect in iminium ion catalysis. <b>2006</b> , 62, 410-421	45
2024	Direct asymmetric organocatalytic de novo synthesis of carbohydrates. <b>2006</b> , 62, 329-337	93
2023	l-Proline amide-catalyzed direct asymmetric aldol reaction of aldehydes with chloroacetone. <b>2006</b> , 62, 346-351	70
2022	Effect of additives on the proline-catalyzed ketone-aldehyde aldol reactions. <b>2006</b> , 62, 317-328	212
2021	Chiral base-catalyzed aldol reaction of trimethoxysilyl enol ethers: effect of water as an additive on stereoselectivities. <b>2006</b> , 62, 390-400	35
2020	Kinetic isotope and thermodynamic analysis of the nornicotine-catalyzed aqueous aldol reaction. <b>2006</b> , 62, 352-356	32
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2018	Chiral spiroborate esters catalyzed highly enantioselective direct aldol reaction. <b>2006</b> , 62, 5692-5696	17
2017	Direct asymmetric aldol reaction catalyzed by nanocrystalline magnesium oxide. <b>2006</b> , 62, 9571-9576	40
2016	The first total synthesis of (R)-convolutamydine A. <b>2006</b> , 62, 12017-12024	109

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2014	BINAM-prolinamides as recoverable catalysts in the direct aldol condensation. <b>2006</b> , 17, 729-733	79
2013	(2S,5S)-Pyrrolidine-2,5-dicarboxylic acid, an efficient chiral organocatalyst for direct aldol reactions. <b>2006</b> , 17, 1537-1540	29
2012	High acceleration of the direct aldol reaction cocatalyzed by BINAM-prolinamides and benzoic acid in aqueous media. <b>2006</b> , 17, 1493-1497	98
2011	Small organic molecule catalyzed enantioselective direct aldol reaction in water. <b>2006</b> , 17, 2108-2119	92
2010	(S,S,S)-Perhydroindolic acid: efficient catalyst for direct asymmetric aldol reaction from aromatic aldehydes. <b>2006</b> , 17, 2187-2190	19
2009	Stereoselective synthesis of (R)-bulgocinine hydrochloride and its C-2 epimer from l-ascorbic acid. <b>2006</b> , 17, 2864-2869	7
2008	A novel design of roof-shaped anthracene-fused chiral prolines as organocatalysts for asymmetric Mannich reactions. <b>2006</b> , 17, 2963-2969	36
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2006	Catalytic aldol-type reaction of aldehydes with ethyl diazoacetate using quaternary ammonium hydroxide as the base. <b>2006</b> , 47, 877-880	28
2005	Regioselective aldol condensations of a cholestanone-derived dialdehyde: new twists on a classic reaction. <b>2006</b> , 47, 2083-2086	16
2004	Asymmetric direct aldol reaction of 1,2-diketones and ketones mediated by proline derivatives. <b>2006</b> , 47, 3383-3386	65
2003	Homoamino acids as catalysts in enantioselective intra- and intermolecular aldol reactions. <b>2006</b> , 47, 3843-3847	45
2002	Proline catalyzed two-component, three-component and self-asymmetric Mannich reactions promoted by ultrasonic conditions. <b>2006</b> , 47, 5965-5967	60
2001	Non-linear effects in acyclic amino acid-catalyzed direct asymmetric aldol reactions. <b>2006</b> , 47, 6657-6661	26
2000	Synthesis of a biphenyl-based axially chiral amino acid as a highly efficient catalyst for the direct asymmetric aldol reaction. <b>2006</b> , 47, 7423-7426	63
1999	New N-terminal prolyl-dipeptide derivatives as organocatalysts for direct asymmetric aldol reaction. <b>2006</b> , 47, 7793-7796	27
1998	Direct organocatalytic hydroalkoxylation of $\alpha,\beta$ -unsaturated ketones. <b>2006</b> , 47, 7689-7693	40



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1996	Protonated N'-benzyl-N'-prolyl proline hydrazide as highly enantioselective catalyst for direct asymmetric aldol reaction. <b>2006</b> , 215-7		66
1995	Functionalized imidazolium salts for task-specific ionic liquids and their applications. <b>2006</b> , 1049-63		566
1994	Design of a binaphthyl-based axially chiral amino acid as an organocatalyst for direct asymmetric aldol reactions. <b>2006</b> , 1, 210-5		50
1993	Kinetics and mechanism of ruthenium(III) catalyzed oxidation of L-proline by copper(III): A free radical intervention and decarboxylation. <b>2006</b> , 80, 1029-1033		7
1992	A Green Enantioselective Aldol Condensation for the Undergraduate Organic Laboratory. <b>2006</b> , 83, 1871		15
1991	Density functional study of the l-proline-catalyzed $\beta$ -aminoxylation of aldehydes reaction: The reaction mechanism and selectivity. <b>2006</b> , 17, 97-104		15
1990	Organocatalyzed direct aldol condensation using l-proline and BINAM-prolinamides: regio-, diastereo-, and enantioselective controlled synthesis of 1,2-diols. <b>2006</b> , 17, 1027-1031		54
1989	(R)- or (S)-Bi-2-naphthol assisted, l-proline catalyzed direct aldol reaction. <b>2006</b> , 17, 1671-1677		49
1988	A multifunctional proline-based organic catalyst for enantioselective aldol reactions. <b>2006</b> , 17, 2754-2760		57
1987	Asymmetric organocatalysis with glycosyl-beta-amino acids: direct asymmetric aldol reaction of acetone with aldehydes. <b>2006</b> , 341, 2737-43		18
1986	From allylic alcohols to aldols through a new nickel-mediated tandem reaction: synthetic and mechanistic studies. <b>2006</b> , 12, 3261-74		52
1985	Direct asymmetric intermolecular aldol reactions catalyzed by amino acids and small peptides. <b>2006</b> , 12, 5383-97		221
1984	Enantio- and diastereoselective Michael addition reactions of unmodified aldehydes and ketones with nitroolefins catalyzed by a pyrrolidine sulfonamide. <b>2006</b> , 12, 4321-32		206
1983	Sugar-assisted kinetic resolution of amino acids and amplification of enantiomeric excess of organic molecules. <b>2006</b> , 12, 5446-51		23
1982	Solid-supported and pegylated H-Pro-Pro-Asp-NHR as catalysts for asymmetric aldol reactions. <b>2006</b> , 84, 105-13		78
1981	5-(pyrrolidin-2-yl)-1H-tetrazole and 5-[(pyrrolidin-2-yl)methyl]-1H-tetrazole: proline surrogates with increased potential in asymmetric catalysis. <b>2006</b> , 3, 119-33		29
1980	Highly diastereo- and enantioselective direct aldol reactions in water. <b>2006</b> , 45, 958-61		431

1979	Asymmetric catalysis by chiral hydrogen-bond donors. <b>2006</b> , 45, 1520-43	1603
1978	Functionalized chiral ionic liquids as highly efficient asymmetric organocatalysts for Michael addition to nitroolefins. <b>2006</b> , 45, 3093-7	400
1977	Combined proline-surfactant organocatalyst for the highly diastereo- and enantioselective aqueous direct cross-aldol reaction of aldehydes. <b>2006</b> , 45, 5527-9	269
1976	Large nonlinear effect observed in the enantiomeric excess of proline in solution and that in the solid state. <b>2006</b> , 45, 4593-7	105
1975	Highly efficient asymmetric michael addition of aldehydes to nitroalkenes catalyzed by a simple trans-4-hydroxypropylamide. <b>2006</b> , 45, 5984-7	207
1974	Solvent-free asymmetric organocatalysis in a ball mill. <b>2006</b> , 45, 6924-6	168
1973	Diarylprolinol ethers: expanding the potential of enamine/iminium-ion catalysis. <b>2006</b> , 45, 7876-80	419
1972	In water or in the presence of water?. <b>2006</b> , 45, 8103-4	366
1971	The (S)-Proline/Polyelectrolyte System: An Efficient, Heterogeneous, Reusable Catalyst for Direct Asymmetric Aldol Reactions. <b>2006</b> , 2006, 2000-2004	33
1970	Asymmetric Direct Aldol Reaction Catalysed by L-Prolinethioamides. <b>2006</b> , 2006, 3864-3876	65
1969	Direct Asymmetric Aldol-Tishchenko Reaction. <b>2006</b> , 2006, 4779-4786	45
1968	Norstatines from Aldehydes by Sequential Organocatalytic $\alpha$ -Amination and Passerini Reaction. <b>2006</b> , 2006, 4585-4595	28
1967	Proline Catalyzed Asymmetric Aldol Reaction between Methyl Ketones and $\alpha$ -Ketoesters <b>2006</b> , 24, 1196-1199	15
1966	Highly Diastereo- and Enantioselective Direct Aldol Reactions in Water. <b>2006</b> , 118, 972-975	119
1965	Asymmetrische Katalyse durch chirale Wasserstoffbrückendonoren. <b>2006</b> , 118, 1550-1573	529
1964	Functionalized Chiral Ionic Liquids as Highly Efficient Asymmetric Organocatalysts for Michael Addition to Nitroolefins. <b>2006</b> , 118, 3165-3169	89
1963	Combined Proline-Surfactant Organocatalyst for the Highly Diastereo- and Enantioselective Aqueous Direct Cross-Aldol Reaction of Aldehydes. <b>2006</b> , 118, 5653-5655	78
1962	Large Nonlinear Effect Observed in the Enantiomeric Excess of Proline in Solution and That in the Solid State. <b>2006</b> , 118, 4709-4713	38

1961	Highly Efficient Asymmetric Michael Addition of Aldehydes to Nitroalkenes Catalyzed by a Simple trans-4-Hydroxypropylamide. <b>2006</b> , 118, 6130-6133	76
1960	Solvent-Free Asymmetric Organocatalysis in a Ball Mill. <b>2006</b> , 118, 7078-7080	63
1959	Diarylprolinelether: Erweiterung des Potenzials für die Enamin-/Iminiumionkatalyse. <b>2006</b> , 118, 8042-8046	208
1958	In Water or in the Presence of Water?. <b>2006</b> , 118, 8281-8282	99
1957	Enhanced Aldol Reaction Using an Aldolase I Antibody Immobilized in 3D Mesoporous Silica Foam. <b>2006</b> , 18, 3001-3004	19
1956	Supported Ionic Liquids. New Recyclable Materials for the L-Proline-Catalyzed Aldol Reaction. <b>2006</b> , 348, 82-92	134
1955	Amino Acid-Catalyzed Asymmetric Carbohydrate Formation: Organocatalytic One-Step De Novo Synthesis of Keto and Amino Sugars. <b>2006</b> , 348, 211-222	80
1954	Proline-Catalyzed Imino-Diels-Alder Reactions: Synthesis of meso-2,6-Diaryl-4-piperidones. <b>2006</b> , 348, 2443-2448	38
1953	4,4'-Disubstituted L-Prolines as Highly Enantioselective Catalysts for Direct Aldol Reactions. <b>2006</b> , 348, 2223-2228	41
1952	The peptide-catalyzed stereospecific synthesis of tetroses: a possible model for prebiotic molecular evolution. <b>2006</b> , 103, 12713-7	98
1951	Enantioselective Radical Reactions. 107-162	65
1950	Enamine Catalysis: Aldol and Mannich-Type Reactions. 19-55	17
1949	Distillable ionic liquids for a new multicomponent reaction. <b>2007</b> , 79, 1869-1877	25
1948	Convenient Preparation of Chiral Dipyrrolylmethanes Containing a Chiral Moiety. <b>2007</b> , 72, 1046-1056	1
1947	Chiral Ionic Liquid Containing L-Proline Unit as a Highly Efficient and Recyclable Asymmetric Organocatalyst for Aldol Reaction. <b>2007</b> , 36, 628-629	73
1946	Organic Reactions of Anions. 279-347	5
1945	A concise organocatalytic and enantioselective synthesis of isotetronic acids. <b>2007</b> , 4782-4	41
1944	Iminium catalysis. <b>2007</b> , 107, 5416-70	1169

1943	Organocatalytic asymmetric aldol reaction in the presence of water. <b>2007</b> , 5, 2148-53	83
1942	Small organic molecule in enantioselective, direct aldol reaction "in water". <b>2007</b> , 2524-6	104
1941	Microwave-assisted asymmetric organocatalysis. A probe for nonthermal microwave effects and the concept of simultaneous cooling. <b>2007</b> , 72, 1417-24	177
1940	Chiral amines as organocatalysts for asymmetric conjugate addition to nitroolefins and vinyl sulfones via enamine activation. <b>2007</b> , 3123-35	473
1939	Polymer-supported proline-decorated dendrons: dendritic effect in asymmetric aldol reaction. <b>2007</b> , 2823-5	71
1938	Enantioselective formal [3+3] annulation for the direct construction of bicyclic skeletons with four stereogenic centers. <b>2007</b> , 9, 4151-4	123
1937	Highly enantioselective direct aldol reaction catalyzed by cinchona derived primary amines. <b>2007</b> , 5, 2913-5	97
1936	Clarification of the role of water in proline-mediated aldol reactions. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 15100-1	16.4 227
1935	Enantioselective desymmetrization of prochiral cyclohexanone derivatives via the organocatalytic direct Aldol reaction. <b>2007</b> , 736-8	53
1934	Synthesis of Chiral Benzimidazole-Pyrrolidine Derivatives and their Application in Organocatalytic Aldol and Michael Addition Reactions. <b>2007</b> , 37, 4289-4299	14
1933	Dynamic kinetic resolution of 2-oxo-3-aryl-succinates by organocatalyzed aldolization. <b>2007</b> , 1284-6	34
1932	Organocatalysis. <b>2007</b> , 103, 90	12
1931	Chemoselective nucleophilic fluorination induced by selective solvation of the SN2 transition state. <b>2007</b> , 111, 1752-8	36
1930	Nornicotine-organocatalyzed aqueous reduction of alpha,beta-unsaturated aldehydes. <b>2007</b> , 4952-4	12
1929	L-Proline-Catalyzed Asymmetric Direct Aldol Reaction of Heteroaromatic Aldehydes and Acetone: Improvement of Catalytic Efficiency in Ionic Liquid bmim [BF4]. <b>2007</b> , 37, 4301-4307	8
1928	Organocatalyst-mediated enantioselective intramolecular aldol reaction featuring the rare combination of aldehyde as nucleophile and ketone as electrophile. <b>2007</b> , 72, 6493-9	47
1927	Asymmetric organocatalytic direct aldol reactions of cyclohexanone with aldehydes in brine. <b>2007</b> , 85, 208-213	53
1926	Highly enantioselective Michael additions in water catalyzed by a PS-supported pyrrolidine. <b>2007</b> , 9, 3717-20	180

1925	L-Proline-Catalyzed Michael Addition of Aldehydes and Unmodified Ketones to Nitro Olefins Accelerated by Et <sub>3</sub> N. <b>2007</b> , 37, 91-98	19
1924	New ionic liquid-modified silica gels as recyclable materials for L-proline- or H <sub>2</sub> -catalyzed aldol reaction. <b>2007</b> , 9, 1328	74
1923	Asymmetric enamine catalysis. <b>2007</b> , 107, 5471-569	2317
1922	Small-molecule H-bond donors in asymmetric catalysis. <b>2007</b> , 107, 5713-43	2117
1921	Formation of secondary light-absorbing fulvic-like oligomers: A common process in aqueous and ionic atmospheric particles?. <b>2007</b> , 34,	79
1920	Zn[(l)proline]: A powerful catalyst for the very fast synthesis of quinoxaline derivatives at room temperature. <b>2007</b> , 8, 1341-1344	99
1919	Recent developments in the use of catalytic asymmetric ammonium enolates in chemical synthesis. <b>2007</b> , 107, 5596-605	249
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