

Fujie Tanaka

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114
papers

8,407
citations

39
h-index

91
g-index

158
ext. papers

8,857
ext. citations

7.4
avg, IF

5.87
L-index

#	Paper	IF	Citations
114	Enamine-based organocatalysis with proline and diamines: the development of direct catalytic asymmetric Aldol, Mannich, Michael, and Diels-alder reactions. <i>Accounts of Chemical Research</i> , 2004 , 37, 580-91	24.3	1258
113	De novo computational design of retro-aldol enzymes. <i>Science</i> , 2008 , 319, 1387-91	33.3	892
112	Organocatalytic direct asymmetric aldol reactions in water. <i>Journal of the American Chemical Society</i> , 2006 , 128, 734-5	16.4	608
111	Organocatalytic direct Michael reaction of ketones and aldehydes with beta-nitrostyrene in brine. <i>Journal of the American Chemical Society</i> , 2006 , 128, 4966-7	16.4	423
110	A highly enantioselective route to either enantiomer of both alpha- and beta-amino acid derivatives. <i>Journal of the American Chemical Society</i> , 2002 , 124, 1866-7	16.4	311
109	Direct asymmetric organocatalytic Michael reactions of alpha,alpha-disubstituted aldehydes with beta-nitrostyrenes for the synthesis of quaternary carbon-containing products. <i>Organic Letters</i> , 2004 , 6, 2527-30	6.2	305
108	Direct catalytic asymmetric synthesis of anti-1,2-amino alcohols and syn-1,2-diols through organocatalytic anti-Mannich and syn-aldol reactions. <i>Journal of the American Chemical Society</i> , 2007 , 129, 288-9	16.4	293
107	Direct asymmetric anti-Mannich-type reactions catalyzed by a designed amino acid. <i>Journal of the American Chemical Society</i> , 2006 , 128, 1040-1	16.4	276
106	The direct organocatalytic asymmetric Mannich reaction: unmodified aldehydes as nucleophiles. <i>Journal of Organic Chemistry</i> , 2003 , 68, 9624-34	4.2	245
105	Synthesis of beta-hydroxyaldehydes with stereogenic quaternary carbon centers by direct organocatalytic asymmetric aldol reactions. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 2420-3	16.4	218
104	Determination of cysteine concentration by fluorescence increase: reaction of cysteine with a fluorogenic aldehyde. <i>Chemical Communications</i> , 2004 , 1762-3	5.8	194
103	3-Pyrrolidinecarboxylic acid for direct catalytic asymmetric anti-Mannich-type reactions of unmodified ketones. <i>Journal of the American Chemical Society</i> , 2006 , 128, 9630-1	16.4	147
102	Amine-catalyzed direct Diels-Alder reactions of unsaturated ketones with nitro olefins. <i>Tetrahedron Letters</i> , 2002 , 43, 3817-3820	2	147
101	Catalysis of 3-pyrrolidinecarboxylic acid and related pyrrolidine derivatives in enantioselective anti-Mannich-type reactions: importance of the 3-acid group on pyrrolidine for stereocontrol. <i>Journal of the American Chemical Society</i> , 2008 , 130, 875-86	16.4	144
100	Direct organocatalytic asymmetric aldol reactions of alpha-amino aldehydes: expedient syntheses of highly enantiomerically enriched anti-beta-hydroxy-alpha-amino acids. <i>Organic Letters</i> , 2004 , 6, 3541-4	6.2	134
99	A way to highly enantiomerically enriched aza-Morita-Baylis-Hillman-type products. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 1878-80	16.4	129
98	Expedient synthesis of chiral 1,2- and 1,4-diamines: protecting group dependent regioselectivity in direct organocatalytic asymmetric Mannich reactions. <i>Organic Letters</i> , 2006 , 8, 2839-42	6.2	116

97	The Scope of the Direct Proline-Catalyzed Asymmetric Addition of Ketones to Imines. <i>Advanced Synthesis and Catalysis</i> , 2004 , 346, 1131-1140	5.6	114
96	Dihydroxyacetone variants in the organocatalytic construction of carbohydrates: mimicking tagatose and fucose aldolases. <i>Journal of Organic Chemistry</i> , 2006 , 71, 3822-8	4.2	108
95	Mimicking fructose and rhamnulose aldolases: organocatalytic syn-aldol reactions with unprotected dihydroxyacetone. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 5572-5	16.4	103
94	Rapid fluorescent screening for bifunctional amine-acid catalysts: efficient syntheses of quaternary carbon-containing aldols under organocatalysis. <i>Organic Letters</i> , 2003 , 5, 4369-72	6.2	98
93	Mimicking aldolases through organocatalysis: syn-selective aldol reactions with protected dihydroxyacetone. <i>Organic Letters</i> , 2007 , 9, 3445-8	6.2	95
92	Pipecolic acid-catalyzed direct asymmetric mannich reactions. <i>Organic Letters</i> , 2006 , 8, 811-4	6.2	87
91	Catalytic enantioselective formal hetero-Diels-Alder reactions of enones with isatins to give spirooxindole tetrahydropyranones. <i>Chemistry - A European Journal</i> , 2013 , 19, 6213-6	4.8	80
90	Crystallographic evidence for water-assisted photo-induced peptide cleavage in the stony coral fluorescent protein Kaede. <i>Journal of Molecular Biology</i> , 2007 , 372, 918-926	6.5	75
89	Synthesis of β -Hydroxyaldehydes with Stereogenic Quaternary Carbon Centers by Direct Organocatalytic Asymmetric Aldol Reactions. <i>Angewandte Chemie</i> , 2004 , 116, 2474-2477	3.6	68
88	Rapid analysis of solvent effects on enamine formation by fluorescence: how might enzymes facilitate enamine chemistry with primary amines?. <i>Tetrahedron Letters</i> , 2004 , 45, 325-328	2	67
87	One-pot asymmetric synthesis of beta-cyanohydroxymethyl alpha-amino acid derivatives: formation of three contiguous stereogenic centers. <i>Organic Letters</i> , 2002 , 4, 4519-22	6.2	64
86	Catalytic antibodies as designer proteases and esterases. <i>Chemical Reviews</i> , 2002 , 102, 4885-906	68.1	64
85	Correlation between Antigen-Combining-Site Structures and Functions within a Panel of Catalytic Antibodies Generated against a Single Transition State Analog. <i>Journal of the American Chemical Society</i> , 1995 , 117, 6199-6209	16.4	64
84	Development of small designer aldolase enzymes: catalytic activity, folding, and substrate specificity. <i>Biochemistry</i> , 2005 , 44, 7583-92	3.2	62
83	Fluorescent detection of carbon-carbon bond formation. <i>Journal of the American Chemical Society</i> , 2003 , 125, 8523-8	16.4	60
82	The origin of enantioselectivity in aldolase antibodies: crystal structure, site-directed mutagenesis, and computational analysis. <i>Journal of Molecular Biology</i> , 2004 , 343, 1269-80	6.5	58
81	Direct observation of an enamine intermediate in amine catalysis. <i>Journal of the American Chemical Society</i> , 2009 , 131, 18206-7	16.4	56
80	Relaxing Substrate Specificity in Antibody-Catalyzed Reactions: Enantioselective Hydrolysis of N-Cbz-Amino Acid Esters. <i>Journal of the American Chemical Society</i> , 1996 , 118, 2332-2339	16.4	52

79	Reconstructing Aldolase Antibodies to Alter Their Substrate Specificity and Turnover. <i>Journal of the American Chemical Society</i> , 2000 , 122, 4835-4836	16.4	47
78	Design and use of fluorogenic aldehydes for monitoring the progress of aldehyde transformations. <i>Journal of the American Chemical Society</i> , 2004 , 126, 3692-3	16.4	43
77	A structural basis for transition-state stabilization in antibody-catalyzed hydrolysis: crystal structures of an abzyme at 1.8 Å resolution. <i>Journal of Molecular Biology</i> , 1998 , 281, 501-11	6.5	41
76	Using antibody catalysis to study the outcome of multiple evolutionary trials of a chemical task. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 3878-83	11.5	40
75	Phage display selection of peptides possessing aldolase activity. <i>Chemical Communications</i> , 2001 , 769-770	9.8	38
74	A common ancestry for multiple catalytic antibodies generated against a single transition-state analog. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994 , 91, 6045-9	11.5	38
73	1,1'-Binaphthalene-2,2'-diol as a Chiral Auxiliary. Diastereoselective Alkylation of Binaphthyl Esters, Complex-Induced Proximity Effects in Enolate Formation, and One-Step Synthesis of an Optically Active β -Substituted Ketone. <i>Journal of the American Chemical Society</i> , 1995 , 117, 12159-12171	16.4	37
72	Reactive immunization: a unique approach to catalytic antibodies. <i>Journal of Immunological Methods</i> , 2002 , 269, 67-79	2.5	35
71	Formal (4+1) Cycloaddition and Enantioselective Michael-Henry Cascade Reactions To Synthesize Spiro[4,5]decanes and Spirooxindole Polycycles. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 5853-5857	16.4	34
70	A Way to Highly Enantiomerically Enriched aza-Morita-Baylis-Hillman-Type Products. <i>Angewandte Chemie</i> , 2007 , 119, 1910-1912	3.6	34
69	A modular assembly strategy for improving the substrate specificity of small catalytic peptides. <i>Journal of the American Chemical Society</i> , 2002 , 124, 3510-1	16.4	34
68	Organocatalytic anti-Mannich Reactions with Dihydroxyacetone and Acyclic Dihydroxyacetone Derivatives: A Facile Route to Amino Sugars. <i>Advanced Synthesis and Catalysis</i> , 2008 , 350, 791-796	5.6	32
67	Binaphthol as a chiral auxiliary. Asymmetrical alkylation of arylacetic acid. <i>Tetrahedron Letters</i> , 1989 , 30, 2825-2828	2	32
66	Amine-catalyzed Michael reactions of an aminoaldehyde derivative to nitroolefins. <i>Tetrahedron Letters</i> , 2007 , 48, 693-696	2	30
65	Catalytic asymmetric hetero-Diels-Alder reactions of enones with isatins to access functionalized spirooxindole tetrahydropyrans: scope, derivatization, and discovery of bioactives. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 1777-83	3.9	29
64	A fluorogenic aldehyde bearing a 1,2,3-triazole moiety for monitoring the progress of aldol reactions. <i>Journal of Organic Chemistry</i> , 2009 , 74, 2417-24	4.2	29
63	Evolution of aldolase antibodies in vitro: correlation of catalytic activity and reaction-based selection. <i>Journal of Molecular Biology</i> , 2004 , 335, 1007-18	6.5	29
62	Imines that react with phenols in water over a wide pH range. <i>Journal of Organic Chemistry</i> , 2008 , 73, 8669-72	4.2	28

61	Synthesis and evaluation of a cyclic imine derivative conjugated to a fluorescent molecule for labeling of proteins. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009 , 19, 1210-3	2.9	27
60	Mimicking Fructose and Rhamnulose Aldolases: Organocatalytic syn-Aldol Reactions with Unprotected Dihydroxyacetone. <i>Angewandte Chemie</i> , 2007 , 119, 5668-5671	3.6	27
59	Catalytic single-chain antibodies possessing β -lactamase activity selected from a phage displayed combinatorial library using a mechanism-based inhibitor. <i>Tetrahedron Letters</i> , 1999 , 40, 8063-8066	2	26
58	Fluorogenic imines for fluorescent detection of Mannich-type reactions of phenols in water. <i>Journal of Organic Chemistry</i> , 2008 , 73, 3964-6	4.2	25
57	Reaction-Based Mechanistic Investigations of Asymmetric Hetero-Diels-Alder Reactions of Enones with Isatins Catalyzed by Amine-Based Three-Component Catalyst Systems. <i>Asian Journal of Organic Chemistry</i> , 2016 , 5, 153-161	3	25
56	A lipid-coated catalytic antibody in water-miscible organic solvents. <i>Tetrahedron</i> , 1995 , 51, 7673-7680	2.4	22
55	Development of a small peptide tag for covalent labeling of proteins. <i>Bioconjugate Chemistry</i> , 2007 , 18, 1318-24	6.3	21
54	Thiazolium-dependent catalytic antibodies produced using a covalent modification strategy \square <i>Chemical Communications</i> , 1999 , 1383-1384	5.8	21
53	Synthesis of 4-Substituted-Pyridine-2,6-dicarboxylic Acid Derivatives from Pyruvates and Aldehydes in One Pot. <i>Heterocycles</i> , 2017 , 95, 587	0.8	21
52	Visualizing antibody-catalyzed retro-aldol-retro-Michael reactions. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2001 , 11, 2983-6	2.9	20
51	Enamine Catalysis: Aldol and Mannich-Type Reactions		17
50	Complex-induced proximity effects in enolate formation. Highly diastereoselective β -methylation of binaphthyl esters of arylacetic acids.. <i>Tetrahedron Letters</i> , 1990 , 31, 6553-6556	2	16
49	Aldol Reactions of Ketone Donors with Aryl Trifluoromethyl Ketone Acceptors Catalyzed by 1,8-Diazabicyclo[5.4.0]undec-7-ene (DBU) for Concise Access to Aryl- and Trifluoromethyl-Substituted Tertiary Alcohols. <i>Advanced Synthesis and Catalysis</i> , 2015 , 357, 3458-3462	5.6	15
48	Antibody-catalyzed Aldol Reactions		15
47	Direct synthesis of C-glycosides from unprotected 2-N-acyl-aldohexoses via aldol condensation-oxa-Michael reactions with unactivated ketones. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 259-64	3.9	14
46	C-Glycosidation of Unprotected Di- and Trisaccharide Aldopyranoses with Ketones Using Pyrrolidine-Boric Acid Catalysis. <i>Journal of Organic Chemistry</i> , 2018 , 83, 4581-4597	4.2	13
45	Synthesis of Furanose Spirooxindoles via 1,8-Diazabicyclo[5.4.0]undec-7-ene (DBU)-Catalyzed Aldol Reactions of a Pyruvic Aldehyde Derivative. <i>Asian Journal of Organic Chemistry</i> , 2014 , 3, 391-394	3	13
44	Reactions of pyruvates: organocatalytic synthesis of functionalized dihydropyrans in one pot and further transformations to functionalized carbocycles and heterocycles. <i>Chemical Communications</i> , 2014 , 50, 14881-4	5.8	12

43	Stereochemistry of the enolate from methyl phenylacetate. <i>Tetrahedron Letters</i> , 1992 , 33, 7885-7888	2	12
42	One-pot synthesis of polysubstituted 3-acylpyrroles by cooperative catalysis. <i>Organic and Biomolecular Chemistry</i> , 2014 , 12, 5822-6	3.9	11
41	Catalytic Direct Asymmetric Michael Reactions: Addition of Unmodified Ketone and Aldehyde Donors to Alkylidene Malonates and Nitro Olefins. <i>Synthesis</i> , 2004 , 2004, 1509-1521	2.9	11
40	Binaphthol as a chiral auxiliary: diastereoselective alkylation of binaphthyl esters of α -unsaturated carboxylic acids. <i>Tetrahedron Letters</i> , 1991 , 32, 7281-7282	2	11
39	Formal (4+1) Cycloaddition and Enantioselective Michael-Henry Cascade Reactions To Synthesize Spiro[4,5]decanes and Spirooxindole Polycycles. <i>Angewandte Chemie</i> , 2017 , 129, 5947-5951	3.6	10
38	Determination of Relative Frequency of Carbanion Formation at α -Positions of Ketones under Aldol Reaction Catalysis Conditions. <i>Organic Letters</i> , 2017 , 19, 3803-3806	6.2	9
37	Pyridoxal-mediated abzyme system for aldol and retro-aldol reactions. <i>Tetrahedron Letters</i> , 1998 , 39, 5057-5060	2	9
36	Intramolecular Mannich and Michael Annulation Reactions of Lactam Derivatives Bearing Enals To Afford Bicyclic N-Heterocycles. <i>Organic Letters</i> , 2019 , 21, 8444-8448	6.2	8
35	Aldolase antibody activation of prodrugs of potent aldehyde-containing cytotoxics for selective chemotherapy. <i>Chemistry - A European Journal</i> , 2004 , 10, 5467-72	4.8	8
34	Direct Catalytic Asymmetric Synthesis of Oxindole-Derived β -Hydroxy- γ -ketoesters by Aldol Reactions. <i>Organic Letters</i> , 2020 , 22, 6-10	6.2	8
33	Discovery of SOAT2 inhibitors from synthetic small molecules. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016 , 26, 5899-5901	2.9	7
32	Fluorogenic probes for chemical transformations: 9-anthracene derivatives for monitoring reaction progress by an increase in fluorescence. <i>Tetrahedron Letters</i> , 2013 , 54, 4306-4308	2	7
31	Catalytic enantioselective oxa-hetero-Diels-Alder reactions of enones with aryl trifluoromethyl ketones. <i>RSC Advances</i> , 2016 , 6, 61454-61457	3.7	7
30	Enantioselective Direct -Selective Mannich-type Reactions Catalyzed by 3-Pyrrolidinecarboxylic Acid in the Presence of Potassium Carbonate: Addition of Potassium Carbonate Improves Enantioselectivities. <i>Organic Letters</i> , 2020 , 22, 4542-4546	6.2	6
29	Catalytic Enantioselective Formal (4+2) Cycloaddition by Aldol-Aldol Annulation of Pyruvate Derivatives with Cyclohexane-1,3-Diones to Afford Functionalized Decalins. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 13298-13301	16.4	6
28	Fluorogenic probes for aldol reactions: tuning of fluorescence using β -conjugation systems. <i>Tetrahedron Letters</i> , 2014 , 55, 74-78	2	6
27	Control of function of a small peptide by a protein. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006 , 16, 4059-62	2.9	6
26	Synthesis of pyrrolidine-3-carboxylic acid derivatives via asymmetric Michael addition reactions of carboxylate-substituted enones. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 6089-6092	3.9	5

25	Fluorogenic aldehydes bearing arylethynyl groups: turn-on aldol reaction sensors for evaluation of organocatalysis in DMSO. <i>Tetrahedron Letters</i> , 2014 , 55, 1946-1948	2	5
24	Substituent-dependent reactivity in aldehyde transformations: 4-(phenylethynyl)benzaldehydes versus simple benzaldehydes. <i>Tetrahedron</i> , 2013 , 69, 4098-4104	2.4	5
23	Development of protein, peptide, and small molecule catalysts using catalysis-based selection strategies. <i>Chemical Record</i> , 2005 , 5, 276-85	6.6	5
22	Intramolecular Oxa-Michael Reactions of Aldols Generated from Enones and Isatins to Afford Spirooxindole Tetrahydropyrans. <i>Heterocycles</i> , 2020 , 101, 339	0.8	5
21	Switching Electrophile Intermediates to Nucleophiles: Michael and Oxa-Diels-Alder Reactions to Afford Polyoxy-Functionalized Piperidine Derivatives with Tetrasubstituted Carbon. <i>Organic Letters</i> , 2020 , 22, 2751-2755	6.2	4
20	Mannich Reactions of Carbohydrate Derivatives with Ketones To Afford Polyoxy-Functionalized Piperidines. <i>Organic Letters</i> , 2019 , 21, 1165-1169	6.2	3
19	Dynamic stereoselective annulation via aldol-oxa-cyclization cascade reaction to afford spirooxindole pyran polycycles. <i>Communications Chemistry</i> , 2019 , 2,	6.3	3
18	Selection of phage-displayed peptides that bind to a particular ligand-bound antibody. <i>Bioorganic and Medicinal Chemistry</i> , 2008 , 16, 5926-31	3.4	3
17	Enamine-based Reactions Using Organocatalysts: from Aldolase Antibodies to Small Amino Acid and Amine Catalysts. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2005 , 63, 709-727	9.2	3
16	Control of Chemical Reactions by Using Molecules that Buffer Non-aqueous Solutions. <i>Chemistry - A European Journal</i> , 2020 , 26, 222-229	4.8	3
15	Intramolecular Formal [4 + 2] Cycloadditions: Synthesis of Spiro Isoindolinone Derivatives and Related Molecules. <i>Organic Letters</i> , 2021 , 23, 1874-1879	6.2	3
14	Catalytic Enantioselective Oxa-Hetero-Diels-Alder Reactions of Enones with Aryl Trifluoromethyl Ketones: Synthesis of Tetrahydropyranones. <i>Heterocycles</i> , 2021 , 103, 198	0.8	3
13	Aldol reactions of 1,2-diketones catalyzed by amines to afford furanose derivatives. <i>Tetrahedron Letters</i> , 2015 , 56, 735-738	2	2
12	Anti-formyl peptide antibodies. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 1943-5	2.9	2
11	Organocatalytic diastereo- and enantioselective oxa-hetero-Diels-Alder reactions of enones with aryl trifluoromethyl ketones for the synthesis of trifluoromethyl-substituted tetrahydropyrans. <i>Organic and Biomolecular Chemistry</i> , 2021 , 19, 9242-9250	3.9	2
10	Dynamic Kinetic Asymmetric Transformation of Racemic Diastereomers: Diastereo- and Enantioconvergent Michael-Henry Reactions to Afford Spirooxindoles Bearing Furan-Fused Rings. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 21256-21260	16.4	2
9	Detection of enantiomers of chiral primary amines by ¹ H NMR analysis via enamine formation with an enantiopure Eposition aldol product of a β -keto ester. <i>Tetrahedron Letters</i> , 2018 , 59, 2248-2250	2	1
8	7 Catalytic antibodies. <i>Annual Reports on the Progress of Chemistry Section C</i> , 2005 , 101, 202		1

7	Organocatalytic Approaches to Enantioenriched α -Amino Acids 2005 , 195-213		1
6	Antibody-catalyzed aminolysis of a chloropyrimidine derivative. <i>Chemical Communications</i> , 2004 , 1242-3	5,8	1
5	Reactive Immunization: A Unique Approach to Aldolase Antibodies 2005 , 304-335		1
4	Reactions of Pyruvate-Derived Dihydropyrans with Formaldehyde: Synthesis of Functionalized Furopyrans and Related Products. <i>Heterocycles</i> , 2018 , 97, 569	0.8	1
3	Catalytic Enantioselective Formal (4+2) Cycloaddition by Aldol Annulation of Pyruvate Derivatives with Cyclohexane-1,3-Diones to Afford Functionalized Decalins. <i>Angewandte Chemie</i> , 2018 , 130, 13482-13485	3.6	1
2	Dynamic Kinetic Asymmetric Transformation of Racemic Diastereomers: Diastereo- and Enantioconvergent Michael-Henry Reactions to Afford Spirooxindoles Bearing Furan-Fused Rings. <i>Angewandte Chemie</i> , 2021 , 133, 21426-21430	3.6	1
1	Enamine-Based Reactions: Strategies for the Development of Organocatalysts and Catalyzed Reactions. <i>Journal of the Society of Japanese Women Scientists</i> , 2009 , 10, 1-9	0	