Susumu Saito

List of Publications by Year
in descending order

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105 papers	4,913 citations	94433 37 h-index	98798 67 g-index
152 all docs	152 docs citations	152 times ranked	3641 citing authors

#	Article	IF	Citations
1	Asymmetric Direct Aldol Reaction Assisted by Water and a Proline-Derived Tetrazole Catalyst. Angewandte Chemie - International Edition, 2004, 43, 1983-1986.	13.8	542
2	Design of Acidâ^'Base Catalysis for the Asymmetric Direct Aldol Reaction. Accounts of Chemical Research, 2004, 37, 570-579.	15.6	378
3	Iron/Amino Acid Catalyzed Direct Nâ€Alkylation of Amines with Alcohols. Angewandte Chemie - International Edition, 2011, 50, 3006-3009.	13.8	213
4	Diversity-based strategy for discovery of environmentally benign organocatalyst: diamineâ€“protonic acid catalysts for asymmetric direct aldol reaction. Tetrahedron, 2002, 58, 8167-8177.	1.9	198
5	Rh^Iâ€Catalyzed Hydration of Organonitriles under Ambient Conditions. Angewandte Chemie - International Edition, 2008, 47, 3607-3609.	13.8	172
6	Asymmetric Catalysis Special Feature Part I: O-nitroso aldol synthesis: Catalytic enantioselective route to Â-aminooxy carbonyl compounds via enamine intermediate. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 5374-5378.	7.1	164
7	Highlyanti-Selective Catalytic Aldol Reactions of Amides with Aldehydes. Journal of the American Chemical Society, 2006, 128, 8704-8705.	13.7	135
8	Cross-coupling reaction of alcohols for carbonâ€“carbon bond formation using pincer-type NHC/palladium catalysts. Organic and Biomolecular Chemistry, 2010, 8, 896-900.	2.8	124
9	The Dual Role of Ruthenium and Alkali Base Catalysts in Enabling a Conceptually New Shortcut to N-Unsubstituted Pyrroles through Unmasked Î±-Amino Aldehydes. Organic Letters, 2013, 15, 1436-1439.	4.6	116
10	Diamine-Protonic Acid Catalysts for Catalytic Asymmetric Aldol Reaction. Synlett, 2001, 2001, 1245-1248.	1.8	114
11	N-Methylation of Amines with Methanol at Room Temperature. Organic Letters, 2015, 17, 2530-2533.	4.6	112
12	Designer Lewis acid catalystsâ€"bulky aluminium reagents for selective organic synthesis. Chemical Communications, 1997, , 1585-1592.	4.1	104
13	Molecular Design of a Chiral Lewis Acid for the Asymmetric Claisen Rearrangement. Journal of the American Chemical Society, 1995, 117, 1165-1166.	13.7	101
14	Virtually Complete Blocking of .alpha.,.beta.-Unsaturated Aldehyde Carbonyls by Complexation with Aluminum Tris(2,6-diphenylphenoxide). Journal of the American Chemical Society, 1994, 116, 4131-4132.	13.7	99
15	Conceptually New Directed Aldol Condensation Using Aluminum Tris(2,6-diphenylphenoxide). Journal of the American Chemical Society, 1998, 120, 813-814.	13.7	98
16	Photocatalytic CO₂ Reduction Using a Robust Multifunctional Iridium Complex toward the Selective Formation of Formic Acid. Journal of the American Chemical Society, 2020, 142, 10261-10266.	13.7	90
17	Diboron-Catalyzed Dehydrative Amidation of Aromatic Carboxylic Acids with Amines. Organic Letters, 2018, 20, 4397-4400.	4.6	73
18	Asymmetric Coupling of Phenols with Arylleads. Journal of the American Chemical Society, 1999, 121, 8943-8944.	13.7	69

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19	Catalytic hydrogenation of unactivated amides enabled by hydrogenation of catalyst precursor. Tetrahedron Letters, 2013, 54, 2674-2678.	1.4	66
20	RhI-catalyzed aldol-type reaction of organonitriles under mild conditions. Chemical Communications, 2008, , 2212.	4.1	62
21	Cationic mononuclear ruthenium carboxylates as catalyst prototypes for self-induced hydrogenation of carboxylic acids. Nature Communications, 2015, 6, 8140.	12.8	55
22	Selective Nâ€Alkylation of Amines with Alcohols by Using Nonâ€Metalâ€Based Acidâ€“Base Cooperative Catalysis. Chemistry - A European Journal, 2011, 17, 12262-12267.	3.3	52
23	Discrimination of two different ester carbonyls with methylaluminum bis(2,6-di-tert-butyl-4-methylphenoxide). Application to the regiocontrolled and stereocontrolled Diels-Alder reaction of unsymmetrical fumarates. Journal of the American Chemical Society, 1992, 114, 1089-1090.	13.7	51
24	Efficient Conjugate Reduction of Î±,Î²-Unsaturated Carbonyl Compounds by Complexation with Aluminum Tris(2,6-diphenylphenoxide). Journal of Organic Chemistry, 1996, 61, 2928-2929.	3.2	51
25	Chemoselective functionalization of more hindered aldehyde carbonyls with the methylaluminum bis(2,6-diphenylphenoxide)/alkyllithium system. Journal of the American Chemical Society, 1993, 115, 1183-1184.	13.7	50
26	Asymmetric Diels-Alder Reaction of Unsymmetrical Maleates. A Chemical Access to Chiral, Unsymmetrical cis-Cyclohexene-1,2-dicarboxylates. Journal of the American Chemical Society, 1994, 116, 6153-6158.	13.7	50
27	Mixed Crossed Aldol Condensation between Conjugated Esters and Aldehydes Using Aluminum Tris(2,6-diphenylphenoxide). Angewandte Chemie - International Edition, 1999, 38, 1769-1771.	13.8	50
28	Directed Aldol Condensation. Chemistry - A European Journal, 1999, 5, 1959-1962.	3.3	49
29	Cu^I/H₂/NaOHâ€Catalyzed Crossâ€Coupling of Two Different Alcohols for Carbonâ€“Carbon Bond Formation: â€œBorrowing Hydrogenâ€?. Chemistry - A European Journal, 2011, 17, 11146-11151.	3.3	49
30	Hydration of nitriles to amides by a chitin-supported ruthenium catalyst. RSC Advances, 2015, 5, 12152-12160.	3.6	49
31	Diastereoselective Aldol Reaction with an Acetate Enolate: 2,6-Bis(2-isopropylphenyl)-3,5-dimethylphenol as an Extremely Effective Chiral Auxiliary. Angewandte Chemie - International Edition, 1998, 37, 3378-3381.	13.8	45
32	Oneâ€Pot Nitrile Aldolization/Hydration Operation Giving Î²â€Hydroxy Carboxamides. Chemistry - an Asian Journal, 2011, 6, 1740-1743.	3.3	44
33	Photocatalytic N-Methylation of Amines over Pd/TiO₂ for the Functionalization of Heterocycles and Pharmaceutical Intermediates. ACS Sustainable Chemistry and Engineering, 2018, 6, 15419-15424.	6.7	44
34	Asymmetric Mannich-Type Reactions of Aldimines with a Chiral Acetate. Organic Letters, 2000, 2, 1891-1894.	4.6	43
35	Molecular Recognition of Î±,Î²-Unsaturated Carbonyl Compounds Using Aluminum Tris(2,6-diphenylphenoxide) (ATPH):â€‰ Structural and Conformational Analysis of ATPH Complexes and Application to the Selective Vinylogous Aldol Reaction. Journal of the American Chemical Society, 2003, 125, 6200-6210.	13.7	43
36	Multifaceted catalytic hydrogenation of amides via diverse activation of a sterically confined bipyridineâ€“ruthenium framework. Scientific Reports, 2017, 7, 1586.	3.3	43

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37	Highly Regioselective Alkylation at the More-Hindered Î±-Site of Unsymmetrical Ketones by the Combined Use of Aluminum Tris(2,6-diphenylphenoxide) and Lithium Diisopropylamide. Journal of the American Chemical Society, 1997, 119, 611-612.	13.7	42
38	Asymmetric Carbonâ"Carbon Coupling of Phenols or Anilines with Aryllead Triacetates. Journal of the American Chemical Society, 2002, 124, 5365-5373.	13.7	41
39	N-Alkylation of functionalized amines with alcohols using a copperâ€"gold mixed photocatalytic system. Scientific Reports, 2018, 8, 6931.	3.3	38
40	Designer Lewis acid catalysts for selective organic synthesis. Pure and Applied Chemistry, 1999, 71, 239-245.	1.9	36
41	Dehydrative synthesis of chiral oxazolidinones catalyzed by alkali metal carbonates under low pressure of CO2. Tetrahedron Letters, 2013, 54, 4717-4720.	1.4	36
42	Chiral Molecular Recognition by Aluminum Tris(2,6-diphenylphenoxide) in an Asymmetric 1,4-Addition. Angewandte Chemie - International Edition, 2004, 43, 994-997.	13.8	35
43	Molecular Recognition of Carbonyl Compounds Using Aluminum Tris(2,6-diphenylphenoxide) (ATPH): New Regio- and Stereoselective Alkylation of Î±,Î²-Unsaturated Carbonyl Compounds. Journal of the American Chemical Society, 2000, 122, 7847-7848.	13.7	33
44	Novel Three-Component Coupling Using Aluminum Tris(2,6-diphenylphenoxide) (ATPH): The Same Synthetic Strategy Leads to trans- and cis-Jasmonates. Angewandte Chemie - International Edition, 2001, 40, 3613.	13.8	33
45	Reaction of an â€œInvisibleâ€•Frustrated N/B Lewis Pair with Dihydrogen. Chemistry - an Asian Journal, 2013, 8, 212-217.	3.3	33
46	Catalytic transformation of functionalized carboxylic acids using multifunctional rhenium complexes. Scientific Reports, 2017, 7, 3425.	3.3	30
47	2,6-Bis(2-alkylphenyl)-3,5-dimethylphenol as a New Chiral Phenol with C2-Symmetry. Application to the Asymmetric Alkylation of Aldehydes. Journal of Organic Chemistry, 1997, 62, 5651-5656.	3.2	29
48	Redoxâ€Selective Generation of Aldehydes and H₂ from Alcohols under Visible Light. Chemistry - A European Journal, 2013, 19, 9452-9456.	3.3	28
49	Synthesis of carbonates directly from 1Âatm CO2 and alcohols using CH2Cl2. Tetrahedron, 2010, 66, 9675-9680.	1.9	27
50	Aluminum Tris(2,6-diphenylphenoxide) (ATPH) as an Extremely Selective Activator of Less Hindered Aldehyde Carbonyls. Synlett, 1994, 1994, 439-440.	1.8	26
51	A new synthetic route to allylsilanes: the reaction of silyllithium reagents with aromatic carbonyl compounds and aluminium tris(2,6-diphenylphenoxide) (ATPH). Chemical Communications, 1997, , 1299-1300.	4.1	26
52	Catalytic hydrogenation of carboxylic acids using low-valent and high-valent metal complexes. Chemical Communications, 2018, 54, 13319-13330.	4.1	24
53	Aluminum Tris(2,6-diphenylphenoxide)-ArCOCl Complex for Nucleophilic Dearomatic Functionalization. Journal of the American Chemical Society, 2000, 122, 10216-10217.	13.7	23
54	Aqua-aminoorganoboron Catalyst: Engineering Single Water Molecule to Act as an Acid Catalyst in Nitro Aldol Reaction. Chemistry Letters, 2008, 37, 1294-1295.	1.3	23

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55	Catalytic fluoride triggers dehydrative oxazolidinone synthesis from CO₂. RSC Advances, 2014, 4, 50851-50857.	3.6	22
56	Asymmetric Mannich-type reactions with a chiral acetate: effect of Lewis acid on activation of aldimine. Tetrahedron, 2001, 57, 875-887.	1.9	21
57	One-step synthesis of patterned polymer brushes by photocatalytic microcontact printing. Chemical Communications, 2015, 51, 1027-1030.	4.1	20
58	Pd/TiO₂-Photocatalyzed Self-Condensation of Primary Amines To Afford Secondary Amines at Ambient Temperature. Organic Letters, 2019, 21, 341-344.	4.6	19
59	C(sp³)â€“H bond functionalization with styrenes via hydrogen-atom transfer to an aqueous hydroxyl radical under photocatalysis. Green Chemistry, 2021, 23, 3575-3580.	9.0	17
60	Regioselective Robinson Annulation Realized by the Combined Use of Lithium Enolates and Aluminum Tris(2,6-diphenylphenoxide) (ATPH). Bulletin of the Chemical Society of Japan, 1997, 70, 1671-1681.	3.2	16
61	Conjugate Addition of Lithium Enolates to Aromatic Carbonyl Compounds Complexed with Aluminum Tris(2,6-diphenylphenoxide) (ATPH). Synlett, 1999, 1999, 81-83.	1.8	16
62	Aluminum in Organic Synthesis. , 2005, , 189-306.		16
63	Double Molecular Recognition with Aminoorganoboron Complexes: Selective Alcoholysis of Î²â€Dicarbonyl Derivatives. Angewandte Chemie - International Edition, 2012, 51, 5395-5399.	13.8	15
64	Photocatalytic Transfer Hydrogenolysis of Allylic Alcohols on Pd/TiO₂: A Shortcut to (S)â€(+)â€Lavandulol. Chemistry - A European Journal, 2017, 23, 18025-18032.	3.3	15
65	Importance of Open Structure of Nonmetal Based Catalyst in Hydrogen Bond Promoted Methanolysis of Activated Amide: Structure Dynamics between Monomer and Dimer Enabling Recombinant Covalent, Dative, and Hydrogen Bonds. Journal of the American Chemical Society, 2009, 131, 8748-8749.	13.7	14
66	Synthesis of propylene from renewable allyl alcohol by photocatalytic transfer hydrogenolysis. Catalysis Science and Technology, 2014, 4, 4093-4098.	4.1	14
67	Aldol condensation of amides using phosphazene-based catalysis. Tetrahedron Letters, 2012, 53, 5445-5448.	1.4	13
68	Dehydrogenation of Primary Aliphatic Alcohols by Au/TiO₂ Photocatalysts. Chemistry Letters, 2017, 46, 580-582.	1.3	13
69	Reaction of H ₂ with mitochondria-relevant metabolites using a multifunctional molecular catalyst. Science Advances, 2020, 6, .	10.3	11
70	Selective Reduction of Methylenecycloalkane Oxides with 4-Substituted Diisobutylaluminum 2,6-Di-tert-butylphenoxides. Synlett, 1991, 1991, 255-256.	1.8	10
71	Selective Reduction of Carboxylic Acids to Alcohols in the Presence of Alcohols by a Dual Bulky Transition-Metal Complex/Lewis Acid Catalyst. ACS Catalysis, 2022, 12, 1957-1964.	11.2	10
72	Aluminum Trisphenoxide Polymer as a Lewis Acidic, Solid Catalyst. Synlett, 1999, 1999, 57-58.	1.8	9

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73	Novel Three Component Coupling of Ketone, Cyclic Ether and Epoxide using Aluminum Tris(2,6-diphenylphenoxide) (ATPH). Synlett, 1999, 1999, 581-583.	1.8	9
74	Catalytic Hydrogenation of Nâ€protected Î±â€Amino Acids Using Ruthenium Complexes with Monodentate Phosphine Ligands. Advanced Synthesis and Catalysis, 2020, 362, 424-429.	4.3	8
75	A Highly Durable, Self-Photosensitized Mononuclear Ruthenium Catalyst for CO2 Reduction. Synlett, 2022, 33, 1137-1141.	1.8	8
76	Development of Organocatalysis Based on the Molecular Design of Pyrrolidine-Brensted Acid Catalysts. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2008, 66, 774-784.	0.1	7
77	Tris(o-phenylenedioxy)cyclotriphosphazene as a Promoter for the Formation of Amide Bonds Between Aromatic Acids and Amines. Synthesis, 2020, 52, 3253-3262.	2.3	7
78	Photocatalytic CO₂ Reduction Using an Ironâ€“Bipyridyl Complex Supported by Two Phosphines for Improving Catalyst Durability. Organometallics, 2022, 41, 1865-1871.	2.3	7
79	Versatile Ruthenium Complex â€œRuPCYâ€•for Directed Catalytic Hydrogen Management in Organic Synthesis. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2016, 74, 1078-1089.	0.1	6
80	Photocatalytic hydrogenolysis of allylic alcohols for rapid access to platform chemicals and fine chemicals. Pure and Applied Chemistry, 2018, 90, 167-174.	1.9	6
81	Phosphorus-Based Organocatalysis for the Dehydrative Cyclization of N-(2-Hydroxyethyl)amides into 2-Oxazolines. Journal of Organic Chemistry, 2022, 87, 243-257.	3.2	6
82	Stereoselective Synthesis of cis,cisâ€Configured Vicinal Triamines. European Journal of Organic Chemistry, 2014, 2014, 5749-5756.	2.4	5
83	A New Method for the Preparation of Aluminum and Titanium Tris(2,6-diphenylphenoxide) Reagents and Their Application in Organic Synthesis. Chemistry Letters, 2003, 32, 1006-1007.	1.3	4
84	Asymmetric Vinylogous Direct Aldol Reaction Using Aluminum Tris[2,6-bis(4-alkylphenyl)phenoxide]. Synlett, 2004, 2004, 732-734.	1.8	4
85	Synthesis of 1,4-Diazabicyclo[3.3.1]nonan-6-ones. Australian Journal of Chemistry, 2009, 62, 1684.	0.9	4
86	Acetals of N,N-Dimethylformamides: Ambiphilic Behavior in Converting Carbon Dioxide to Dialkyl Carbonates. Chemistry Letters, 2013, 42, 146-147.	1.3	4
87	Bromolactamization: Key Step in the Stereoselective Synthesis of Enantiomerically Pure, cisâ€Configured Perhydropyrroloquinoxalines. Chirality, 2014, 26, 793-800.	2.6	4
88	Recent Advances in Light-Driven Carbonâ€“Carbon Bond Formation via Carbon Dioxide Activation. Synthesis, 2021, 53, 3263-3278.	2.3	4
89	Direct Coupling of Anilines with Aryllead Triacetates. Synlett, 2000, 2000, 1676-1678.	1.8	3
90	Development of Effective Bidentate Diphosphine Ligands of Ruthenium Catalysts toward Practical Hydrogenation of Carboxylic Acids. Bulletin of the Chemical Society of Japan, 2021, 94, 1510-1524.	3.2	3

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91	A New Annulation Based on a One-Pot Double Michael Addition Using Aluminum Tris(2,6-diphenylphenoxide) (ATPH). Synlett, 1997, 1997, 359-360.	1.8	2
92	Lead in Organic Synthesis. , 2005, , 721-751.		2
93	Synthesis of a Silanol-substituted Proline Analog as Organocatalyst. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2009, 64, 1169-1175.	0.7	2
94	Synthesis of morphan derivatives with additional substituents in 8-position. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2016, 71, 1057-1069.	0.7	2
95	Stereoselective Synthesis of cis,cisâ€Configured Perhydroquinoxalineâ€5â€Carbonitrile from Cyclohexâ€2â€enâ€1â€ol. Journal of Heterocyclic Chemistry, 2016, 53, 533-536.	2.6	2
96	Preparation of a platinum nanoparticle catalyst located near photocatalyst titanium oxide and its catalytic activity to convert benzyl alcohols to the corresponding ethers. RSC Advances, 2021, 11, 22230-22237.	3.6	2
97	Mixed Crossed Aldol Condensation between Conjugated Esters and Aldehydes Using Aluminum Tris(2,6-diphenylphenoxide). , 1999, 38, 1769.		2
98	Development of Catalytic Reduction of Renewable Carbon Resources Using Well-Elaborated Organometallic Complexes with PNNP Tetradentate Ligands. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2020, 78, 856-866.	0.1	2
99	Investigation of the Corey Bromolactamization with Nâ€Functionalized Allylamines. Journal of Heterocyclic Chemistry, 2016, 53, 1827-1837.	2.6	1
100	Diversity-Based Strategy for Discovery of Environmentally Benign Organocatalyst: Diamineâ€"Protonic Acid Catalysts for Asymmetric Direct Aldol Reaction.. ChemInform, 2003, 34, no.	0.0	0
101	A New Method for the Preparation of Aluminum and Titanium Tris(2,6-diphenylphenoxide) Reagents and Their Application in Organic Synthesis.. ChemInform, 2004, 35, no.	0.0	0
102	Chiral Molecular Recognition by Aluminum Tris(2,6-diphenylphenoxide) in an Asymmetric 1,4-Addition.. ChemInform, 2004, 35, no.	0.0	0
103	Asymmetric Direct Aldol Reaction Assisted by Water and a Proline-Derived Tetrazole Catalyst.. ChemInform, 2004, 35, no.	0.0	0
104	Design of Acidâ€"Base Catalysis for the Asymmetric Direct Aldol Reaction. ChemInform, 2004, 35, no.	0.0	0
105	Designer Lewis Acids for Selective Organic Synthesis. , 1999, , 63-70.		0