

# Shunsuke Kotani

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9480152/publications.pdf>

Version: 2024-02-01

52  
papers

1,672  
citations

257450

24  
h-index

289244

40  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1179  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lewis base-catalyzed conjugate reduction and reductive aldol reaction of $\alpha,\beta$ -unsaturated ketones using trichlorosilane. <i>Chemical Communications</i> , 2008, , 4309.	4.1	127
2	Indoxyl sulfate potentiates skeletal muscle atrophy by inducing the oxidative stress-mediated expression of myostatin and atrogin-1. <i>Scientific Reports</i> , 2016, 6, 32084.	3.3	124
3	Chiral phosphine oxide BINAPO as a Lewis base catalyst for asymmetric allylation and aldol reaction of trichlorosilyl compounds. <i>Tetrahedron</i> , 2007, 63, 3122-3132.	1.9	100
4	Chiral phosphine oxide BINAPO as a catalyst for enantioselective allylation of aldehydes with allyltrichlorosilanes. <i>Tetrahedron Letters</i> , 2005, 46, 157-159.	1.4	89
5	Diastereo- and Enantioselective Reductive Aldol Reaction with Trichlorosilane Using Chiral Lewis Bases as Organocatalysts. <i>Chemistry - an Asian Journal</i> , 2010, 5, 478-481.	3.3	83
6	Asymmetric ring opening of meso-epoxides catalyzed by the chiral phosphine oxide BINAPO. <i>Tetrahedron: Asymmetry</i> , 2005, 16, 2391-2392.	1.8	82
7	First asymmetric Abramov-type phosphorylation of aldehydes with trialkyl phosphites catalyzed by chiral Lewis bases. <i>Tetrahedron</i> , 2008, 64, 6415-6419.	1.9	77
8	Cresyl sulfate, a uremic toxin, causes vascular endothelial and smooth muscle cell damages by inducing oxidative stress. <i>Pharmacology Research and Perspectives</i> , 2015, 3, e00092.	2.4	59
9	Novel enantioselective direct aldol-type reaction promoted by a chiral phosphine oxide as an organocatalyst. <i>Tetrahedron Letters</i> , 2009, 50, 4602-4605.	1.4	57
10	A Tertiary Amine as A Hydride Donor: Trichlorosilyl Triflate-mediated Conjugate Reduction of Unsaturated Ketones. <i>Organic Letters</i> , 2011, 13, 3968-3971.	4.6	50
11	Lithium acetylides as alkynylating reagents for the enantioselective alkynylation of ketones catalyzed by lithium binaphtholate. <i>Chemical Communications</i> , 2011, 47, 5614-5616.	4.1	49
12	Stereoselective Synthesis of Multiple Stereocenters by Using a Double Aldol Reaction. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3461-3464.	13.8	48
13	Enantioselective Double Aldol Reaction Catalyzed by Chiral Phosphine Oxide. <i>Chemistry - A European Journal</i> , 2011, 17, 7992-7995.	3.3	44
14	Lithium Binaphtholate-Catalyzed Asymmetric Addition of Lithium Acetylides to Carbonyl Compounds. <i>Journal of Organic Chemistry</i> , 2014, 79, 4817-4825.	3.2	41
15	Enantioselective Aldol Reactions Catalyzed by Chiral Phosphine Oxides. <i>Chemical Record</i> , 2013, 13, 362-370.	5.8	40
16	Trichlorosilyl triflate for enantioselective direct-type aldol reaction with chiral phosphine oxide. <i>Tetrahedron Letters</i> , 2011, 52, 2834-2836.	1.4	38
17	Trichlorosilyl triflate-mediated enantioselective directed cross-aldol reaction between ketones using a chiral phosphine oxide as an organocatalyst. <i>Chemical Communications</i> , 2012, 48, 5524.	4.1	34
18	Synthesis of aryl group-modified DIOP dioxides (Ar-DIOPs) and their application as modular Lewis base catalysts. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 4562.	2.8	34

#	ARTICLE	IF	CITATIONS
19	Enantioselective reductive aldol reaction using tertiary amine as hydride donor. <i>Tetrahedron Letters</i> , 2012, 53, 4199-4201.	1.4	34
20	Enantioselective aldol reaction of silyl ketene acetals promoted by a Lewis base-activated Lewis acid catalyst. <i>Tetrahedron: Asymmetry</i> , 2009, 20, 1369-1370.	1.8	33
21	Catalytic Enantioselective Aldol Reactions of Unprotected Carboxylic Acids under Phosphine Oxide Catalysis. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15877-15881.	13.8	33
22	DMAP-catalyzed cyanation of aldehydes and ketones with ethyl cyanofornate. <i>Tetrahedron Letters</i> , 2010, 51, 3547-3549.	1.4	29
23	Facile synthesis of chiral 1,2-chlorohydrins via the ring-opening of meso-epoxides catalyzed by chiral phosphine oxides. <i>Tetrahedron</i> , 2013, 69, 3075-3081.	1.9	29
24	Atropisomeric Chiral Dienes in Asymmetric Catalysis: $C_2$ -Symmetric ( <i>Z</i> , <i>Z</i> )- $\epsilon$ -Bis[1-(diphenylphosphinyl)ethylidene]tetralin as a Highly Active Lewis Base Organocatalyst. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13798-13802.	13.8	27
25	Phosphine Oxide-Catalyzed Enantioselective Intramolecular Aldol Reaction via Regioselective Enolization of Unsymmetrical Diketones with Tetrachlorosilane. <i>Organic Letters</i> , 2014, 16, 4802-4805.	4.6	22
26	Lewis Base-Catalyzed Enantioselective Conjugate Reduction of $\beta,\beta$ -Disubstituted $\alpha,\beta$ -Unsaturated Ketones with Trichlorosilane: <i>E/Z</i> -Isomerization, Regioselectivity, and Synthetic Applications. <i>Journal of Organic Chemistry</i> , 2019, 84, 11458-11473.	3.2	20
27	Sequential Catalysis of Phosphine Oxide for Stereoselective Synthesis of Stereopentads. <i>Organic Letters</i> , 2017, 19, 3672-3675.	4.6	19
28	Recent advances in asymmetric phosphine oxide catalysis. <i>Tetrahedron Letters</i> , 2020, 61, 151421.	1.4	19
29	Enantioselective Double Aldol Reactions Involving the Sequential Activation of Silicon Tetrachloride by Chiral Phosphine Oxides. <i>Synlett</i> , 2014, 25, 631-640.	1.8	18
30	Concise Asymmetric Construction of $C_2$ -Symmetric 1,9-Diarylnonanoids Using a Hypervalent Silicon Complex: Total Synthesis of ( $\alpha$ )-Ericanone. <i>Chemistry - an Asian Journal</i> , 2016, 11, 376-379.	3.3	18
31	Enantioselective Morita-Baylis-Hillman reaction catalyzed by a chiral phosphine oxide. <i>Tetrahedron Letters</i> , 2013, 54, 6430-6433.	1.4	17
32	Synthesis of $\beta$ -amino alcohols from aldehydes, enamines, and trichlorosilane using Lewis base catalysts. <i>Tetrahedron</i> , 2011, 67, 531-539.	1.9	16
33	A Sterically Congested $\beta$ -Cyanamine as a Cyanating Reagent: Cyanation of Acetals and Orthoesters. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 6606-6609.	2.4	14
34	Construction of quaternary carbon centers by a base-catalyzed enantioselective aldol reaction and related reactions of trimethoxysilyl enol ethers. <i>Tetrahedron</i> , 2012, 68, 4210-4224.	1.9	13
35	Diastereoselective synthesis of 1,3-diamines by a domino reaction of imines, enamines, and trichlorosilane. <i>Tetrahedron Letters</i> , 2014, 55, 1924-1926.	1.4	11
36	Stereoselective Synthesis of 2-Fluoro-1,3-Diols via Lithium Binaphtholate-Catalyzed Aldol-Tishchenko Reaction. <i>Organic Letters</i> , 2019, 21, 4192-4196.	4.6	11

#	ARTICLE	IF	CITATIONS
37	Isolation, Synthesis, and Structure–Activity Relationship Study on Daphnane and Tiglane Diterpenes as HIV Latency-Reversing Agents. <i>Journal of Medicinal Chemistry</i> , 2022, , .	6.4	11
38	Melinjo seed extract increases adiponectin multimerization in physiological and pathological conditions. <i>Scientific Reports</i> , 2020, 10, 4313.	3.3	10
39	Chiral Lithium Binaphtholate for Enantioselective Michael Addition of Acyclic $\alpha$ -alkyl- $\beta$ -keto Esters to Vinyl Ketones. <i>Asian Journal of Organic Chemistry</i> , 2015, 4, 616-618.	2.7	9
40	Stereoselective Synthesis of Highly Functionalized 2,3-Dihydro-4-pyranones Using Phosphine Oxide as Catalyst. <i>Chemical and Pharmaceutical Bulletin</i> , 2016, 64, 189-192.	1.3	9
41	Enantioselective chlorinative aldol reaction of $\alpha$ -substituted acroleins catalyzed by chiral phosphine oxides. <i>Tetrahedron: Asymmetry</i> , 2017, 28, 282-287.	1.8	8
42	Asymmetric Aldol/Vinylogous Aldol/Cyclization Reaction Using Phosphine Oxide Catalysts. <i>Chemical and Pharmaceutical Bulletin</i> , 2017, 65, 989-993.	1.3	8
43	Phosphine Oxide-Catalyzed Asymmetric Aldol Reactions and Double Aldol Reactions. <i>Chemical and Pharmaceutical Bulletin</i> , 2019, 67, 519-526.	1.3	8
44	Imino ene-type reaction of enamines with N-sulfonylimines and application to diastereoselective synthesis of N-sulfonyl-1,3-diamines. <i>Tetrahedron Letters</i> , 2014, 55, 4082-4085.	1.4	7
45	Enantioselective amination of acyclic $\alpha$ -alkylated $\beta$ -keto esters catalyzed by chiral lithium binaphtholate. <i>Tetrahedron Letters</i> , 2016, 57, 4217-4219.	1.4	6
46	Chiral lithium binaphtholate for enantioselective amination of acyclic $\alpha$ -alkyl- $\beta$ -keto esters: Application to the total synthesis of l-carbidopa. <i>Tetrahedron</i> , 2017, 73, 5975-5982.	1.9	6
47	Catalytic Enantioselective Aldol Reactions of Unprotected Carboxylic Acids under Phosphine Oxide Catalysis. <i>Angewandte Chemie</i> , 2018, 130, 16103-16107.	2.0	5
48	Stereoselective Synthesis of Nitrogen-Containing Compounds from Enamines. <i>Journal of Organic Chemistry</i> , 2017, 82, 10968-10979.	3.2	4
49	Nitration of indoxyl sulfate facilitates its cytotoxicity in human renal proximal tubular cells via expression of heme oxygenase-1. <i>Biochemical and Biophysical Research Communications</i> , 2015, 465, 481-487.	2.1	3
50	Phosphine–oxide-catalyzed Enantioselective Cross-aldol Reactions of Aldehydes with Trichlorosilane as Lewis Acid Promoter. <i>ChemCatChem</i> , 2020, 12, 4780-4783.	3.7	2
51	Molecular recognition of a single-chain Fv antibody specific for GA-pyridine, an advanced glycation end-product (AGE), elucidated using biophysical techniques and synthetic antigen analogues. <i>Journal of Biochemistry</i> , 2021, 170, 379-387.	1.7	1
52	Chiral Phosphine Oxide-Catalyzed Enantioselective Ring Opening of Oxetanes. <i>Heterocycles</i> , 2021, 103, 1048.	0.7	1