

Nobuyuki Mase

List of Publications by Year in descending order

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docs citations

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times ranked

3651
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#	ARTICLE	IF	CITATIONS
1	Organocatalytic Direct Asymmetric Aldol Reactions in Water. <i>Journal of the American Chemical Society</i> , 2006, 128, 734-735.	13.7	642
2	Organocatalytic Direct Michael Reaction of Ketones and Aldehydes with β^2 -Nitrostyrene in Brine. <i>Journal of the American Chemical Society</i> , 2006, 128, 4966-4967.	13.7	438
3	Direct Asymmetric Organocatalytic Michael Reactions of β^1, β^2 -Disubstituted Aldehydes with β^2 -Nitrostyrenes for the Synthesis of Quaternary Carbon-Containing Products. <i>Organic Letters</i> , 2004, 6, 2527-2530.	4.6	317
4	Direct Asymmetric β^1 -Fluorination of Aldehydes. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 3706-3710.	13.8	315
5	Synthesis of β^2 -Hydroxyaldehydes with Stereogenic Quaternary Carbon Centers by Direct Organocatalytic Asymmetric Aldol Reactions. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 2420-2423.	13.8	240
6	Determination of cysteine concentration by fluorescence increase: reaction of cysteine with a fluorogenic aldehyde. <i>Chemical Communications</i> , 2004, , 1762.	4.1	201
7	In water, on water, and by water: mimicking nature's aldolases with organocatalysis and water. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 4043.	2.8	189
8	Rapid Fluorescent Screening for Bifunctional Amine ⁺ Acid Catalysts: Efficient Syntheses of Quaternary Carbon-Containing Aldols under Organocatalysis. <i>Organic Letters</i> , 2003, 5, 4369-4372.	4.6	112
9	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.	1.4	74
10	Organocatalytic Knoevenagel Condensations by Means of Carbamic Acid Ammonium Salts. <i>Organic Letters</i> , 2013, 15, 1854-1857.	4.6	70
11	Characterisation of odorant compounds and their biochemical formation in green tea with a low temperature storage process. <i>Food Chemistry</i> , 2014, 148, 388-395.	8.2	70
12	Aerobic copper/TEMPO-catalyzed oxidation of primary alcohols to aldehydes using a microbubble strategy to increase gas concentration in liquid phase reactions. <i>Chemical Communications</i> , 2011, 47, 2086.	4.1	60
13	Highly Diastereoselective Intermolecular β^2 -Addition of Alkyl Radicals to Chiral 2-(Arylsulfinyl)-2-cycloalkenones. <i>Journal of Organic Chemistry</i> , 1997, 62, 7794-7800.	3.2	59
14	Effect of Long Chain Fatty Acids on Organocatalytic Aqueous Direct Aldol Reactions. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 2791-2796.	4.3	54
15	Enantioselective allylation of the β^1 -sulfonyl radical controlled by coordination of a chiral Lewis acid to an enantiotopic sulfonyl oxygen. <i>Tetrahedron Letters</i> , 2001, 42, 2981-2984.	1.4	53
16	Curcumin-Loaded PLA Nanoparticles: Formulation and Physical Evaluation. <i>Scientia Pharmaceutica</i> , 2016, 84, 191-202.	2.0	52
17	Enantioselective alkylation using a new C3 symmetric amine-based chiral phase-transfer catalyst. <i>Tetrahedron Letters</i> , 2003, 44, 4073-4075.	1.4	49
18	Design and Use of Fluorogenic Aldehydes for Monitoring the Progress of Aldehyde Transformations. <i>Journal of the American Chemical Society</i> , 2004, 126, 3692-3693.	13.7	49

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19	Determination of Volatile Compounds in Four Commercial Samples of Japanese Green Algae Using Solid Phase Microextraction Gas Chromatography Mass Spectrometry. <i>Scientific World Journal</i> , The, 2014, 2014, 1-8.	2.1	49
20	Characteristic Fluctuations in Glycosidically Bound Volatiles during Tea Processing and Identification of Their Unstable Derivatives. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 1151-1157.	5.2	48
21	Diastereomer-Differentiating Radical $\hat{1}^2$ -Addition to 4- or 5-Methyl-2-[(2,4,6-triisopropylphenyl)sulfinyl]-2-cyclopentenones. <i>Journal of Organic Chemistry</i> , 1998, 63, 3899-3904.	3.2	34
22	Novel strategic lipase-catalyzed asymmetricization of 1,3-propanediacetate in supercritical carbon dioxide. <i>Tetrahedron Letters</i> , 2003, 44, 5175-5178.	1.4	34
23	An improved and efficient procedure for the preparation of chiral sulfinates from sulfonyl chloride using triphenylphosphine. <i>Tetrahedron: Asymmetry</i> , 1999, 10, 737-745.	1.8	32
24	Diastereofacial control in the radical addition to chiral $\hat{1}^{\pm}$ -sulfinyl enones. <i>Pure and Applied Chemistry</i> , 1996, 68, 711-714.	1.9	29
25	Stereoselective hydrogenation of $\hat{1}^{\pm}$ -sulfinyl radical generated from alkyl radical addition to $\hat{1}^{\pm}$ -(1-hydroxyethyl)vinyl sulfoxide. <i>Tetrahedron Letters</i> , 1998, 39, 5553-5556.	1.4	29
26	Total synthesis of ($\hat{1}^{\pm}$)-2-epi-lentiginosine by use of chiral 5-hydroxy-1,5-dihydropyrrol-2-one as a building block. <i>Tetrahedron Letters</i> , 2007, 48, 8956-8959.	1.4	29
27	Photo-Induced Intermolecular Radical $\hat{1}^2$ -Addition to Chiral $\hat{1}^{\pm}$ -(Arylsulfinyl) Enones. <i>Bulletin of the Chemical Society of Japan</i> , 1998, 71, 2957-2965.	3.2	27
28	Discrimination of diastereotopic sulfonyl oxygens by intramolecular hydrogen bonding: Stereoselective hydrogenation of $\hat{1}^{\pm}$ -sulfonyl radicals. <i>Tetrahedron Letters</i> , 1999, 40, 2797-2800.	1.4	27
29	Organocatalytic $\hat{1}^{\pm}$ -hydroxymethylation of cyclopentanone with aqueous formaldehyde: Easy access to chiral $\hat{1}^{\pm}$ -lactones. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 3955-3958.	2.2	27
30	Scalable Microwave-Assisted Johnsonâ€œClaisen Rearrangement with a Continuous Flow Microwave System. <i>Organic Process Research and Development</i> , 2018, 22, 1029-1033.	2.7	27
31	Organocatalytic Enantioselective Michael Additions of Malonates to 2-Cyclopentenone. <i>Synlett</i> , 2010, 2010, 2340-2344.	1.8	25
32	Rapid Optimization of Reaction Conditions Based on Comprehensive Reaction Analysis Using a Continuous Flow Microwave Reactor. <i>Chemical Record</i> , 2019, 19, 77-84.	5.8	24
33	First synthesis of (R)-($\hat{1}^{\pm}$)-5-hydroxy-3-methyl-3-pyrrolin-2-one (jatropham) by lipase-catalyzed kinetic resolution. <i>Tetrahedron: Asymmetry</i> , 1999, 10, 4469-4471.	1.8	22
34	Diastereoselective Radical Hydrogenation of $\hat{1}^{\pm}$ -(1-Hydroxyalkyl)vinyl Sulfoxides and Sulfones Controlled by Intramolecular Hydrogen Bonding. <i>Journal of Organic Chemistry</i> , 2000, 65, 7083-7090.	3.2	21
35	Regioselective reduction of maleimide and citraconimide derivatives: general preparation of 5-hydroxy-1,5-dihydropyrrol-2-one. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2002, , 707-709.	1.3	21
36	Lewis acid-promoted tandem desulfurization and hydroxylation of $\hat{1}^3$ -phenylthio-substituted lactams: novel synthetic strategy of isoindolobenzazepine alkaloid, chilenine. <i>Tetrahedron Letters</i> , 2003, 44, 9057-9060.	1.4	20

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37	A simplified synthesis of (R)-($\hat{\alpha}$) ⁺ -muscone using a ring-opening reaction of (R)-(+)- $\hat{\beta}$ ² -methyl- $\hat{\beta}$ ² -propiolactone. <i>Tetrahedron: Asymmetry</i> , 2005, 16, 3176-3182.	1.8	19
38	Highly regioselective lipase-catalyzed acetylation and hydrolysis of acyclic $\hat{\beta}$ ² , $\hat{\gamma}$ ³ -terpenediols and their diacetates. <i>Tetrahedron Letters</i> , 2003, 44, 3267-3269.	1.4	18
39	Oxotitanium(IV) complexes of some bis $\hat{\alpha}$ -unsymmetric Schiff bases: Synthesis, structural elucidation and biomedical applications. <i>Applied Organometallic Chemistry</i> , 2019, 33, e4876.	3.5	18
40	Reverse enantioselectivity in the lipase-catalyzed desymmetrization of prochiral 2-carbamoylmethyl-1,3-propanediol derivatives. <i>Tetrahedron: Asymmetry</i> , 2000, 11, 4825-4829.	1.8	17
41	Tuning the Catalyst Reactivity of Imidazolylidene Catalysts through Substituent Effects on the $\hat{\alpha}$ -Aryl Groups. <i>Organic Letters</i> , 2017, 19, 2750-2753.	4.6	17
42	Fine-Bubble-Based Strategy for the Palladium-Catalyzed Hydrogenation of Nitro Groups: Measurement of Ultrafine Bubbles in Organic Solvents. <i>Synlett</i> , 2017, 28, 2184-2188.	1.8	17
43	Radical $\hat{\beta}$ ² -addition to acyclic $\hat{\beta}$ ² -(arylsulfinyl) enones: Pummerer-type rearrangement. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1998, , 1613-1618.	0.9	16
44	Highly regioselective lipase-catalyzed acetylation and hydrolysis of acyclic $\hat{\beta}$ ² , $\hat{\gamma}$ ³ -alkenediols and their diacetates. <i>Tetrahedron Letters</i> , 2005, 46, 6293-6295.	1.4	16
45	Organocatalytic Stereoselective Cyclic Polylactide Synthesis in Supercritical Carbon Dioxide under Plasticizing Conditions. <i>Polymers</i> , 2018, 10, 713.	4.5	16
46	Direct synthesis of N-terminal thiazolidine-containing peptide thioesters from peptide hydrazides. <i>Chemical Communications</i> , 2018, 54, 9127-9130.	4.1	16
47	Convenient Synthesis of Pulchella-lactam, a CD45 Protein Tyrosine Phosphatase Inhibitor from the Marine Fungus <i>Corollospora pulchella</i> , and Its Related Compounds. <i>Heterocycles</i> , 2004, 63, 1013.	0.7	15
48	Practical optical resolution of dl-muscone using tartaric acid derivatives as a chiral auxiliary. <i>Tetrahedron Letters</i> , 2005, 46, 3457-3460.	1.4	15
49	Lipase-catalyzed kinetic resolution of thiotetronic acid derivatives bearing a chiral quaternary carbon: total synthesis of (R)-thiolactomycin and its O-analogue. <i>Tetrahedron Letters</i> , 2006, 47, 7163-7166.	1.4	15
50	Convenient route to both enantiomers of chiral 5-hydroxypyrrolidin-2-one and 5-hydroxy-1,5-dihydropyrrol-2-one: reverse enantioselectivity in lipase-catalyzed kinetic resolution. <i>Tetrahedron Letters</i> , 2000, 41, 9859-9863.	1.4	14
51	Preparation of chiral 4-benzyloxymethyl-dihydrofuran-2-one using lipase-catalyzed kinetic resolution: synthesis of ($\hat{\alpha}$) ⁺ -Virginiae Butanolide C (VB C). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2002, 12, 2295-2297.	2.2	12
52	Chemoenzymatic synthesis of (E)-3,7-dimethyl-2-octene-1,8-diol isolated from the hairpencils of male <i>Danaus chrysippus</i> (African monarch). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003, 13, 1967-1969.	2.2	12
53	7-Hydroxy-N-Methylquinolinium Chromophore: A Photolabile Protecting Group for Blue-Light Uncaging. <i>Organic Letters</i> , 2018, 20, 4178-4182.	4.6	12
54	Enantioselective reactions of tert-butyl glycinate $\hat{\alpha}$ -benzophenone Schiff base catalyzed by chiral phase-transfer catalyst in aqueous media without any organic solvent. <i>Tetrahedron Letters</i> , 2005, 46, 3213-3216.	1.4	11

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55	Lipase-catalyzed kinetic resolution of tetronic acid derivatives bearing a chiral quaternary carbon: total synthesis of (S)-($\hat{\alpha}$)-vertinolide. <i>Tetrahedron: Asymmetry</i> , 2006, 17, 2195-2198.	1.8	11
56	Second-Order Nonlinear Optical Susceptibilities of Nonelectrically Poled DR1-PMMA Guest-Host Polymers. <i>Journal of Physical Chemistry B</i> , 2013, 117, 14857-14864.	2.6	11
57	The Effect of Iron Oxide on the Mechanical and Ageing Properties of Y-TZP Ceramic. <i>Key Engineering Materials</i> , 2016, 701, 225-229.	0.4	11
58	Spectral and computational chemistry studies for the optimization of geometry of dioxomolybdenum(VI) complexes of some unsymmetrical Schiff bases as antimicrobial agent. <i>Journal of Coordination Chemistry</i> , 2018, 71, 3874-3892.	2.2	11
59	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.	1.4	10
60	Synthesis of a self-assembling gold nanoparticle-supported organocatalyst for enamine-based asymmetric aldol reactions. <i>Tetrahedron</i> , 2016, 72, 1984-1990.	1.9	10
61	Diastereoselective radical allylation and hydrogenation of $\hat{\pm}$ -(arylsulfinyl)alkyl radicals induced by chelation control. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2002, , 2134-2136.	1.3	9
62	Chemoenzymatic total synthesis and determination of the absolute configuration of (S)-nebracetam. <i>Tetrahedron: Asymmetry</i> , 2008, 19, 2115-2118.	1.8	9
63	A practical synthesis of (E)-2-cyclopentadecen-1-one: an important precursor of macrocyclic muscone. <i>Tetrahedron Letters</i> , 2008, 49, 548-551.	1.4	9
64	Protection-, Salt-, and Metal-Free Syntheses of [n]-Shogaols by Use of Dimethylammonium Dimethyl Carbamate (DIMCARB) without Protecting Groups. <i>Synlett</i> , 2010, 2010, 93-96.	1.8	9
65	Micro and Nanobubble Based Strategy for Gas-Liquid-Solid Multiphase Reactions: Palladium-Catalysed Hydrogenation of Carbon-Carbon Unsaturated Bonds. <i>Synlett</i> , 2013, 24, 2225-2228.	1.8	9
66	Continuous flow photooxidation of alkyl benzenes using fine bubbles for mass transfer enhancement. <i>Tetrahedron Letters</i> , 2022, 90, 153613.	1.4	9
67	Extremely simple and practical synthesis of ($\hat{\pm}$)-vertinolide via the Michael addition. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2002, , 500-502.	1.3	8
68	Self-organizing second-order nonlinear susceptibility in NLO-chromophore-doped amorphous ferroelectric poly-(cyano phenylene sulfide) polymers [Invited]. <i>Optical Materials Express</i> , 2012, 2, 2.	3.0	8
69	Synthesis and Characterization of Quantum Dot Nanoparticles Bound to the Plant Volatile Precursor of Hydroxy-apo-10- $\hat{\epsilon}$ -carotenal. <i>Journal of Organic Chemistry</i> , 2014, 79, 6808-6815.	3.2	8
70	Selective improvement of peptides imaging on tissue by supercritical fluid wash of lipids for matrix-assisted laser desorption/ionization mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 1475-1480.	3.7	8
71	Characterization of flower-inducing compound in <i>Lemna paucicostata</i> exposed to drought stress. <i>Tetrahedron</i> , 2014, 70, 4969-4976.	1.9	7
72	Estimation of Outlet Temperature of a Flow Reactor Heated by Microwave Irradiation. <i>Chemical Record</i> , 2019, 19, 140-145.	5.8	7

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73	Highly effective volatile organic compound dissolving strategy based on mist atomization for odorant biosensors. <i>Analytica Chimica Acta</i> , 2020, 1139, 178-188.	5.4	7
74	Fluorogenic aldehydes bearing arylethynyl groups: turn-on aldol reaction sensors for evaluation of organocatalysis in DMSO. <i>Tetrahedron Letters</i> , 2014, 55, 1946-1948.	1.4	6
75	Fine-Bubble“Slug-Flow Hydrogenation of Multiple Bonds and Phenols. <i>Synlett</i> , 2020, 31, 1919-1924.	1.8	6
76	Cyclization of N,N-diethylgeranylamine N-oxide in one-pot operation: preparation of cyclic terpenoid-aroma chemicals. <i>Tetrahedron Letters</i> , 2008, 49, 6016-6018.	1.4	5
77	Linear and nonlinear optical properties of disperse red dyes in poly-(cyano phenylene sulfide). <i>Chemical Physics Letters</i> , 2010, 501, 39-43.	2.6	4
78	Organocatalytic ring-opening polymerization of l-lactide in supercritical carbon dioxide under plasticizing conditions. <i>Tetrahedron Letters</i> , 2018, 59, 4392-4396.	1.4	4
79	Chemoselective Umpolung of Enals for Asymmetric Homoenate Cross-Annulation of Enals and Aldehydes Catalyzed by N-Heterocyclic Carbene. <i>Organic Letters</i> , 2019, 21, 9119-9123.	4.6	4
80	Stereoselective synthesis of Gly-Gly-type (<i>E</i>)-methylalkene and (<i>Z</i>)-chloroalkene dipeptide isosteres and their application to 14-mer RGG peptidomimetics. <i>RSC Advances</i> , 2020, 10, 29373-29377.	3.6	4
81	Late-Stage Solubilization of Poorly Soluble Peptides Using Hydrazone Chemistry. <i>Organic Letters</i> , 2021, 23, 1653-1658.	4.6	4
82	Properties of new sulfur-free gas odorant for fuel gas. <i>Journal of Japan Association on Odor Environment</i> , 2009, 40, 248-255.	0.0	3
83	Second-order nonlinear optical susceptibilities in nonelectrically poled guest“host polymers with tricyanofuran chromophores. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 01AD09.	1.5	3
84	The role of chemisorption for push-pull chromophores on SiO ₂ surfaces in non-electrically poling host-guest NLO polymers. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 340, 35-45.	3.9	3
85	Epimerization-suppressed organocatalytic synthesis of poly-l-lactide in supercritical carbon dioxide under plasticizing conditions. <i>Tetrahedron Letters</i> , 2019, 60, 150987.	1.4	3
86	Stereoselective synthesis of highly functionalized (<i>Z</i>)-chloroalkene dipeptide isosteres containing an 1,1-disubstituted amino acid. <i>Chemical Communications</i> , 2021, 57, 6915-6918.	4.1	3
87	2,3-trans-selective 3-butyrolactone formation via homoenate cross-annulation of enals and aldehydes catalyzed by sterically hindered N-heterocyclic carbene. <i>Tetrahedron</i> , 2021, 91, 132191.	1.9	2
88	Synthesis and Structural Characterization of 2-Turn Mimics Containing (<i>Z</i>)-Chloroalkene Dipeptide Isosteres. <i>Journal of Organic Chemistry</i> , 2022, 87, 2167-2177.	3.2	2
89	Synthesis and Characterization of Cyclodextrin-Based Polyhemiaminal Composites with Enhanced Thermal Stability. <i>Polymers</i> , 2022, 14, 1562.	4.5	2
90	Pendant Alkoxy Groups on N-Aryl Substitutions Drive the Efficiency of Imidazolylidene Catalysts for Homoenate Annulation from Enal and Aldehyde. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19031-19036.	13.8	1

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91	Electrodeless hydrogen production from seawater using femtosecond laser pulses. RSC Advances, 2022, 12, 9304-9309.	3.6	1
92	Design, synthesis, and bio-evaluation of novel triterpenoid derivatives as anti-HIV-1 compounds. Bioorganic and Medicinal Chemistry Letters, 2022, 69, 128768.	2.2	1
93	First Asymmetric Synthesis of New Diarylheptanoids, Renealtin A and B, with a Tetrahydrofuran Ring. Synlett, 2006, 2006, 2031-2034.	1.8	0
94	Nonelectrical Poling Procedure for ordering NLO dyes in novel host amorphous ferroelectric polymer. , 2011, , .		0
95	Pendant Alkoxy Groups on N-aryl Substitutions Drive the Efficiency of Imidazolylidene Catalysts for Homoeneolate Annulation from Enal and Aldehyde. Angewandte Chemie, 2020, 132, 19193-19198.	2.0	0
96	Second-order NLO of non-electrically-poled chromophore-doped amorphous ferroelectric polymers. , 2011, , .		0
97	Comparative study of inclusion complex formation between β -cyclodextrin (host) and aromatic diamines (guests) by mixing in hot water, co-precipitation, and solid-state grinding methods. Journal of Carbohydrate Chemistry, 0, , 1-24.	1.1	0