

# Masato Kitamura

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Mechanism of the Asymmetric Dehydrative Allylative Cyclization of Alcohols to Cyclic Ethers Catalyzed by a CpRu Complex of the Chiral Picolinic Acid-Type Ligand, Cl-Naph-PyCOOH: Is a $\pi$ -Allyl Intermediate Present?. Bulletin of the Chemical Society of Japan, 2021, 94, 440-450.	3.2	1
2	A Monocationic Zn(II) Acetate Complex of a Chiral Bisamidine Dioxolane Ligand, Naph-diPIM-dioxo-R, for the Asymmetric 1,3-Dipolar Cycloaddition of Tridentate $\beta$ -Substituted $\beta$ -Imino Esters and Acrylates to Multi-Substituted Prolines: Importance of an $n \rightarrow \pi^*$ Interaction for High Enantioselectivity. Bulletin of the Chemical Society of Japan, 2021, 94, 295-308.	3.2	2
3	Systematic asymmetric analog synthesis of fluspidine, a $5\alpha$ receptor ligand, to improve ligand affinity. Tetrahedron Letters, 2021, , 153250.	1.4	0
4	Asymmetric Dehydrative Allylation Using Soft Ruthenium and Hard Brønsted Acid Combined Catalyst. Chemical Record, 2021, 21, 1385-1397.	5.8	7
5	CpRuII-chiral bisamidine complex catalyzed asymmetric Carroll-type decarboxylative allylation of $\beta^2$ -keto allyl esters. Tetrahedron, 2020, 76, 130888.	1.9	6
6	Asymmetric Synthesis of Multi-Substituted Prolines via a Catalytic 1,3-Dipolar Cycloaddition Using a Monocationic Zn(II) OAc Complex of a Chiral Bisamidine Ligand, Naph-diPIM-dioxo-R. ChemCatChem, 2020, 12, 5613-5617.	3.7	7
7	CpRu/Brønsted Acid-Catalyzed Enantioselective Dehydrative Cyclization of Pyrroles N-Tethered with Allylic Alcohols. Organic Letters, 2020, 22, 1929-1933.	4.6	15
8	Mechanism Change of (+)-Nonlinear Effect in a Phase Separation System in a CuII-Catalyzed Asymmetric Friedel-Crafts Reaction Using a $\beta^2$ -Chiral Dioxolane-Containing-Bisamidine Ligand, Naph-diPIM-dioxo-Pr. Bulletin of the Chemical Society of Japan, 2020, 93, 1319-1333.	3.2	6
9	A Chiral Picolinic Acid Ligand, Cl-Naph-PyCOOH, for CpRu-Catalyzed Dehydrative Allylation: Design, Synthesis, and Properties. Bulletin of the Chemical Society of Japan, 2019, 92, 1707-1720.	3.2	9
10	Reduction-Hydrogenation: C C; Chemoselective. , 2019, , .		0
11	Water, an Essential Element for a Zn II -Catalyzed Asymmetric Quinone Diels-Alder Reaction: Multi-Selective Construction of Highly Functionalized cis-Decalins. Chemistry - an Asian Journal, 2019, 14, 3283-3290.	3.3	8
12	Short and Atom-Economic Enantioselective Synthesis of the $5\alpha$ -Receptor Ligands ( $S$ )- and ( $R$ )-Fluspidine-Important Tools for Positron Emission Tomography Studies. Journal of Organic Chemistry, 2019, 84, 13744-13754.	3.2	9
13	Synthesis of the core structure of phalarine. Organic and Biomolecular Chemistry, 2019, 17, 1727-1730.	2.8	15
14	Rapid Entry into Biologically Relevant $\beta^2$ -Difluoroalkylphosphonates Bearing Allyl Protection-Deblocking under Ru(II)/(IV)-Catalysis. Organic Letters, 2019, 21, 9846-9851.	4.6	8
15	Synthesis of fluspidine via asymmetric NaBH <sub>4</sub> reduction of silicon enolates of $\beta^2$ -keto esters. Tetrahedron, 2018, 74, 5069-5084.	1.9	13
16	Donor-Acceptor Bifunctional Catalyst. Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry, 2018, 76, 1114-1117.	0.1	0
17	Bisamidine-Cu(I)-catalyzed C-Allylation of 1,3-Dicarbonyl Compounds with Simple Cyclic Alkenes Using Di-tert-butyl Peroxide. Chemistry Letters, 2018, 47, 1486-1489.	1.3	10
18	Mechanistic Study of the Ru-Catalyzed Asymmetric Hydrogenation of Nonchelatable and Chelatable tert-Alkyl Ketones Using the Linear Tridentate sp <sup>3</sup> P/sp <sup>3</sup> NH/sp <sup>2</sup> N-Combined Ligand PN(H)N: RuNH- and RuNK-Involved Dual Catalytic Cycle. ACS Catalysis, 2018, 8, 11059-11075.	11.2	4

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19	Revisiting the Cu <sup>II</sup> -Catalyzed Asymmetric Friedel-Crafts Reaction of Indole with Trifluoropyruvate. <i>Organic Letters</i> , 2018, 20, 7149-7153.	4.6	23
20	Enantio- and Diastereoselective Dehydrative $\alpha$ -One-Step Construction of Spirocarbocycles via a Ru/H <sup>+</sup> -Catalyzed Tsuji-Trost Approach. <i>Chemistry - an Asian Journal</i> , 2017, 12, 633-637.	3.3	12
21	Synthesis and biological evaluation of chemokine receptor ligands with 2-benzazepine scaffold. <i>European Journal of Medicinal Chemistry</i> , 2017, 135, 401-413.	5.5	14
22	$\eta^5$ -Allyl Donicity Switch in Catalytic Asymmetric Allylation: Usability of a Robust and Feasible Allyl Methyl Ether. <i>Chemistry Letters</i> , 2017, 46, 1308-1310.	1.3	9
23	Synthetic Study toward Total Synthesis of ( $\hat{A}$ )-Germinine: Synthesis of ( $\hat{A}$ )-4-Methylenegerminine. <i>Organic Letters</i> , 2017, 19, 5150-5153.	4.6	16
24	Modular Construction of Protected 1,2/1,3-Diols, -Amino Alcohols, and -Diamines via Catalytic Asymmetric Dehydrative Allylation: An Application to Synthesis of Sphingosine. <i>Journal of Organic Chemistry</i> , 2017, 82, 9160-9170.	3.2	15
25	Development of a Divergent Synthetic Route to the Erythrina Alkaloids: Asymmetric Syntheses of 8-oxoerythrinine, Crystamidine, 8-oxoerythraline, and Erythraline. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6915-6918.	13.8	31
26	Enantioselective Total Synthesis of (+)-Hinckdentine A via a Catalytic Dearomatization Approach. <i>Journal of the American Chemical Society</i> , 2016, 138, 14578-14581.	13.7	122
27	Development of a Divergent Synthetic Route to the Erythrina Alkaloids: Asymmetric Syntheses of 8-oxoerythrinine, Crystamidine, 8-oxoerythraline, and Erythraline. <i>Angewandte Chemie</i> , 2016, 128, 7029-7032.	2.0	5
28	Development of an axially chiral sp <sup>3</sup> P/sp <sup>3</sup> NH/sp <sup>2</sup> N-combined linear tridentate ligand $\alpha$ fac-selective formation of Ru(II) complexes and application to ketone hydrogenation. <i>Tetrahedron</i> , 2016, 72, 3781-3789.	1.9	7
29	Stereochemical Stability Differences between Axially Chiral 6-Aryl-Substituted Picolinic Esters and Their Benzoic Ester Derivatives: sp <sup>2</sup> N: vs. sp <sup>2</sup> CH in CH <sub>3</sub> , C <sub>6</sub> H <sub>5</sub> , and CH <sub>3</sub> O ortho-Substitution Effect. <i>Bulletin of the Chemical Society of Japan</i> , 2015, 88, 1726-1734.	3.2	2
30	Mechanism of Asymmetric Hydrogenation of Aromatic Ketones Catalyzed by a Combined System of Ru( $\eta^5$ -CH <sub>2</sub> C(CH <sub>3</sub> ) <sub>2</sub> CH <sub>2</sub> ) <sub>2</sub> (cod) and the Chiral sp <sup>2</sup> N/sp <sup>3</sup> NH Hybrid Linear N <sub>4</sub> Ligand Ph-BINAN-H-Py. <i>Journal of the American Chemical Society</i> , 2015, 137, 8138-8149.	13.7	29
31	Asymmetric NaBH <sub>4</sub> Reduction of C <sub>3</sub> -Disubstituted $\alpha$ -Propenoates Catalyzed by a Diamidine Cobalt Complex. <i>ChemCatChem</i> , 2015, 7, 1547-1550.	3.7	19
32	Intramolecular Tsuji-Trost-type Allylation of Carboxylic Acids: Asymmetric Synthesis of Highly $\eta^5$ -Allyl Donative Lactones. <i>Journal of the American Chemical Society</i> , 2015, 137, 9539-9542.	13.7	42
33	Soft ruthenium and hard Brønsted acid combined catalyst for efficient cleavage of allyloxy bonds. Application to protecting group chemistry. <i>Tetrahedron</i> , 2015, 71, 6559-6568.	1.9	10
34	Donor-Acceptor Bifunctional Molecular Catalyst: Its Development, Application, and Analysis. Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry, 2015, 73, 690-700.	0.1	9
35	Recent topics in catalytic asymmetric hydrogenation of ketones. <i>Tetrahedron Letters</i> , 2014, 55, 3635-3640.	1.4	105
36	Asymmetric Hydrogenation of <i>tert</i> -Alkyl Ketones: DMSO Effect in Unification of Stereoisomeric Ruthenium Complexes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 9313-9315.	13.8	39

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37	CpRu-catalyzed asymmetric dehydrative allylation. <i>Pure and Applied Chemistry</i> , 2013, 85, 1121-1132.	1.9	34
38	Asymmetric Dehydrative C-, N-, and O-Allylation Using Naph-diPIM-dioxo-i-Pr-CpRu/p-TsOH Combined Catalyst. <i>Synthesis</i> , 2012, 44, 2138-2146.	2.3	29
39	Enantioselective Synthesis of Pyrrolidine-, Piperidine-, and Azepane-Type <i>N</i> -Heterocycles with $\beta$ -Alkenyl Substitution: The CpRu-Catalyzed Dehydrative Intramolecular <i>N</i> -Allylation Approach. <i>Organic Letters</i> , 2012, 14, 608-611.	4.6	68
40	Double Arylation of Acetylenedicarboxylate with $B(C_6F_5)_3$ . <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 1163-1166.	2.0	6
41	Catalytic Dehydrative S-Allylation of Cysteine-Containing Peptides in Aqueous Media toward Lipopeptide Chemistry. <i>Journal of Organic Chemistry</i> , 2011, 76, 1894-1897.	3.2	10
42	Mechanistic insight into NOYORI asymmetric hydrogenations. <i>Chemical Communications</i> , 2011, 47, 842-846.	4.1	32
43	Desymmetric hydrogenation of a meso-cyclic acid anhydride toward biotin synthesis. <i>Tetrahedron</i> , 2011, 67, 10006-10010.	1.9	13
44	A Chiral Bidentate $\pi$ -N Ligand, Naph-diPIM: Application to CpRu-Catalyzed Asymmetric Dehydrative C-, N-, and O-Allylation. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4649-4653.	13.8	90
45	(9-Fluorenyl)methanesulfonyl (Fms): An Amino Protecting Group Complementary to Fmoc. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 4201-4204.	2.4	10
46	Highly efficient catalytic dehydrative S-allylation of thiols and thioic S-acids. <i>Chemical Communications</i> , 2010, 46, 3996.	4.1	46
47	A Magnetically Separable Heterogeneous Deallylation Catalyst: $[CpRu(\eta^3-C_3H_5)(2\text{-pyridinecarboxylato})]PF_6$ Complex Supported on a Ferromagnetic Microsize Particle $Fe_3O_4@SiO_2$ . <i>European Journal of Organic Chemistry</i> , 2009, 2009, 789-792.	2.4	30
48	Asymmetric Dehydrative Cyclization of $\beta$ -Hydroxy Allyl Alcohols Catalyzed by Ruthenium Complexes. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8948-8951.	13.8	120
49	Solid-phase synthesis of protected $\beta$ -amino phosphonic acid oligomers. <i>Chemical Communications</i> , 2009, , 6985.	4.1	6
50	Dehydrative Allylation of Alcohols and Deallylation of Allyl Ethers Catalyzed by $[CpRu(CH_3CN)_3]PF_6$ and 2-Pyridinecarboxylic Acid Derivatives. Effect of $\pi$ -Accepting Ability and COOH Acidity of Ligand on Reactivity. <i>Chemistry Letters</i> , 2009, 38, 188-189.	1.3	22
51	Solvent-free one-pot synthesis of thallium complexes of $Tp [BH(Pz)_3]^+$ ( $Pz$ =pyrazolate) and its derivatives. <i>Tetrahedron Letters</i> , 2008, 49, 2990-2993.	1.4	3
52	A New, Efficient and Direct Preparation of $TiTp$ and Related Complexes with $TiBH_4$ . <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 1188-1192.	2.0	10
53	Structural Chemistry of Aldols. Yuki Gosei Kagaku Kyokaiishi/ <i>Journal of Synthetic Organic Chemistry</i> , 2007, 65, 552-562.	0.1	1
54	Enantiomeric products formed via different mechanisms: asymmetric hydrogenation of an $\beta,\beta$ -unsaturated carboxylic acid involving a $Ru(CH_3COO)_2[(R)\text{-binap}]$ catalyst. <i>Tetrahedron</i> , 2007, 63, 11399-11409.	1.9	9

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55	A new synthetic route to oligoribonucleotides based on CpRu-catalyzed deallylation. <i>Tetrahedron Letters</i> , 2007, 48, 7320-7322.	1.4	17
56	Highly reactive and chemoselective cleavage of allyl esters using an air- and moisture-stable [CpRu(IV)( $\eta^5$ -C <sub>3</sub> H <sub>5</sub> )(2-quinolinecarboxylato)]PF <sub>6</sub> catalyst. <i>Journal of Organometallic Chemistry</i> , 2007, 692, 295-298.	1.8	25
57	Enantioselective Hydrogenation of Aromatic Ketones Catalyzed by Ru Complexes of Goodwin $\pi$ -Lions-type sp <sup>2</sup> N/sp <sup>3</sup> N Hybrid Ligands R-BINAN-R $\pi$ -Py. <i>Journal of the American Chemical Society</i> , 2006, 128, 8716-8717.	13.7	115
58	Catalytic Removal of N-Allyloxycarbonyl Groups Using the [CpRu(IV)( $\eta^5$ -C <sub>3</sub> H <sub>5</sub> )(2-quinolinecarboxylato)]PF <sub>6</sub> Complex. A New Efficient Deprotecting Method in Peptide Synthesis. <i>Journal of Organic Chemistry</i> , 2006, 71, 4682-4684.	3.2	26
59	Mechanism of catalytic asymmetric hydrogenation of 2-formyl-1-methylene-1,2,3,4-tetrahydroisoquinoline using Ru(CH <sub>3</sub> COO) <sub>2</sub> [(S)-binap]. <i>Tetrahedron</i> , 2006, 62, 5448-5453.	1.9	10
60	[CpRu(IV)( $\eta^5$ -C <sub>3</sub> H <sub>5</sub> )(2-quinolinecarboxylato)]PF <sub>6</sub> Complex: A Robust Catalyst for the Cleavage and Formation of Allyl Ethers. <i>Advanced Synthesis and Catalysis</i> , 2006, 348, 375-378.	4.3	61
61	Catalytic Dehydrative Allylation of Alcohols. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 1730-1732.	13.8	124
62	Origin of the Minor Enantiomeric Product in a Noyori Asymmetric Hydrogenation: Evidence for Pathways Different to the Major Mechanism. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 7287-7290.	13.8	17
63	Catalytic Dehydrative Allylation of Alcohols.. <i>ChemInform</i> , 2005, 36, no.	0.0	0
64	Asymmetric Hydrogenation. , 2005, , 1-110.		146
65	Asymmetric Catalysis Special Feature Part I: Toward efficient asymmetric hydrogenation: Architectural and functional engineering of chiral molecular catalysts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 5356-5362.	7.1	262
66	CpRuIIPF <sub>6</sub> /Quinaldic Acid-Catalyzed Chemoselective Allyl Ether Cleavage. A Simple and Practical Method for Hydroxyl Deprotection. <i>Organic Letters</i> , 2004, 6, 1873-1875.	4.6	89
67	1,4-Addition of Diethylzinc to Cyclohexenone Catalyzed by CuOTf-Sulfonamide Combined System. Evidence Supporting a Concerted Mechanism. <i>Chemistry Letters</i> , 2003, 32, 224-225.	1.3	21
68	Mechanism of Asymmetric Hydrogenation of $\hat{1}\pm$ -(Acylamino)acrylic Esters Catalyzed by BINAP $\pi$ -Ruthenium(II) Diacetate. <i>Journal of the American Chemical Society</i> , 2002, 124, 6649-6667.	13.7	119
69	Catalytic Leuckart $\pi$ -Wallach-Type Reductive Amination of Ketones. <i>Journal of Organic Chemistry</i> , 2002, 67, 8685-8687.	3.2	114
70	(P(C <sub>6</sub> H <sub>5</sub> ) <sub>3</sub> )CpRu $\pi$ -Catalyzed Deprotection of Allyl Carboxylic Esters. <i>Journal of Organic Chemistry</i> , 2002, 67, 4975-4977.	3.2	33
71	Stereochemistry of Aldols: $\hat{A}$ Configuration and Conformation of Aldols Derived from Cycloalkanones and Aldehydes. <i>Journal of the American Chemical Society</i> , 2001, 123, 8939-8950.	13.7	45
72	Self and nonself recognition of chiral catalysts: The origin of nonlinear effects in the amino-alcohol catalyzed asymmetric addition of diorganozincs to aldehydes. <i>Chemical Record</i> , 2001, 1, 85-100.	5.8	57

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73	1,4-Addition of Diorganozincs to $\alpha,\beta$ -Unsaturated Ketones Catalyzed by a Copper(I)-Sulfonamide Combined System. Bulletin of the Chemical Society of Japan, 2000, 73, 999-1014.	3.2	79
74	Ryoji Noyori: Pioneer of asymmetric molecular catalysis. Chirality, 2000, 12, 295-298.	2.6	0
75	Quantitative Analysis of the Chiral Amplification in the Amino Alcohol-Promoted Asymmetric Alkylation of Aldehydes with Dialkylzincs. Journal of the American Chemical Society, 1998, 120, 9800-9809.	13.7	222
76	Conformational Study on 2-Acyl-1-alkylidene-1,2,3,4-tetrahydroisoquinolines. Bulletin of the Chemical Society of Japan, 1996, 69, 1695-1700.	3.2	6
77	Effect of configuration of the branching terminal group on the stability of antiferroelectric liquid crystals. Ferroelectrics, 1996, 178, 287-296.	0.6	1
78	Stereoselective Organic Synthesis via Dynamic Kinetic Resolution. Bulletin of the Chemical Society of Japan, 1995, 68, 36-55.	3.2	523
79	General asymmetric synthesis of isoquinoline alkaloids. Enantioselective hydrogenation of enamides catalyzed by BINAP-ruthenium(II) complexes. Journal of Organic Chemistry, 1994, 59, 297-310.	3.2	136
80	Practical synthesis of BINAP-ruthenium(II) dicarboxylate complexes. Journal of Organic Chemistry, 1992, 57, 4053-4054.	3.2	71
81	Enantioselective Addition of Organometallic Reagents to Carbonyl Compounds: Chirality Transfer, Multiplication, and Amplification. Angewandte Chemie International Edition in English, 1991, 30, 49-69.	4.4	1,176
82	Enantioselective Addition von Organometallreagentien an Carbonylverbindungen: Åbertragung, VervielfÅltigung und VerstÅrkung der ChiralitÅt. Angewandte Chemie, 1991, 103, 34-55.	2.0	276
83	Enantioselective synthesis of $\beta$ -amino acids based on BINAP-ruthenium(II) catalyzed hydrogenation. Tetrahedron: Asymmetry, 1991, 2, 543-554.	1.8	188
84	Homogeneous asymmetric hydrogenation of functionalized ketones. Journal of the American Chemical Society, 1988, 110, 629-631.	13.7	513
85	Asymmetric hydrogenation of $\beta$ -keto carboxylic esters. A practical, purely chemical access to $\beta$ -hydroxy esters in high enantiomeric purity. Journal of the American Chemical Society, 1987, 109, 5856-5858.	13.7	728
86	Asymmetric hydrogenation of unsaturated carboxylic acids catalyzed by BINAP-ruthenium(II) complexes. Journal of Organic Chemistry, 1987, 52, 3174-3176.	3.2	339
87	Asymmetric synthesis of isoquinoline alkaloids by homogeneous catalysis. Journal of the American Chemical Society, 1986, 108, 7117-7119.	13.7	282
88	Catalytic asymmetric induction. Highly enantioselective addition of dialkylzincs to aldehydes. Journal of the American Chemical Society, 1986, 108, 6071-6072.	13.7	552
89	Ligand Design for Catalytic Asymmetric Reduction. , 0, , 1-32.		9