

Masahiko Hayashi

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102
papers

2,600
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27
h-index

47
g-index

118
ext. papers

2,881
ext. citations

3.4
avg, IF

5.1
L-index

#	Paper	IF	Citations
102	Oxidative aromatization of 1,3,5-trisubstituted pyrazolines and Hantzsch 1,4-dihydropyridines by Pd/C in acetic acid. <i>Organic Letters</i> , 2002 , 4, 3955-7	6.2	217
101	Direct and practical synthesis of 2-arylbenzoxazoles promoted by activated carbon. <i>Organic Letters</i> , 2003 , 5, 3713-5	6.2	207
100	Enantioselective trimethylsilylcyanation of some aldehydes catalyzed by chiral Schiff base-titanium alkoxide complexes. <i>Journal of Organic Chemistry</i> , 1993 , 58, 1515-1522	4.2	185
99	SIMPLE SYNTHESIS OF GLYCOSYL FLUORIDES. <i>Chemistry Letters</i> , 1984 , 13, 1747-1750	1.7	127
98	Asymmetric carbon-carbon bond forming reactions catalyzed by chiral Schiff base-titanium alkoxide complexes. <i>Tetrahedron</i> , 1994 , 50, 4385-4398	2.4	90
97	Enantioselective trimethylsilylcyanation of some aldehydes by chiral titanium Schiff base complexes. <i>Journal of the Chemical Society Chemical Communications</i> , 1991 , 1752		79
96	New chiral Schiff base as a tridentate ligand for catalytic enantioselective addition of diethylzinc to aldehydes. <i>Journal of Organic Chemistry</i> , 2006 , 71, 7091-3	4.2	67
95	Use of isopropyl alcohol as a solvent in Ti(O-i-Pr) ₄ -catalyzed Knoevenagel reactions. <i>Tetrahedron</i> , 2005 , 61, 7981-7985	2.4	66
94	Environmentally benign oxidation using a palladium catalyst system. <i>Green Chemistry</i> , 2000 , 2, 257-260	1.0	59
93	Ligand Effects of 2-(2-Pyridyl)benzazole-Pd Complexes on the X-ray Crystallographic Structures, ¹ H NMR Spectra, and Catalytic Activities in Mizoroki-Heck Reactions. <i>Organometallics</i> , 2007 , 26, 6551-6555	3.8	56
92	Imidazole and Imidazoline Derivatives as N-Donor Ligands for Palladium-Catalyzed Mizoroki-Heck Reaction. <i>Advanced Synthesis and Catalysis</i> , 2007 , 349, 833-835	5.6	54
91	Novel N,N,P-tridentate ligands for the highly enantioselective copper-catalyzed 1,4-addition of dialkylzincs to enones. <i>Organic Letters</i> , 2008 , 10, 3509-12	6.2	51
90	A simple synthesis of 2-arylbenzothiazoles and its application to palladium-catalyzed Mizoroki-Heck reaction. <i>Tetrahedron Letters</i> , 2006 , 47, 4231-4233	2	50
89	An efficient synthesis of 2-arylimidazoles by oxidation of 2-arylimidazolines using activated carbon-D ₂ system and its application to palladium-catalyzed Mizoroki-Heck reaction. <i>Tetrahedron</i> , 2007 , 63, 2414-2417	2.4	40
88	Oxidation using activated carbon and molecular oxygen system. <i>Chemical Record</i> , 2008 , 8, 252-67	6.6	40
87	Oxidative aromatization of 9,10-dihydroanthracenes using molecular oxygen promoted by activated carbon. <i>Journal of Organic Chemistry</i> , 2003 , 68, 8272-3	4.2	37
86	Recent topics on catalytic asymmetric 1,4-addition. <i>Tetrahedron Letters</i> , 2017 , 58, 1793-1805	2	36

85	Copper(I)-2-(2'-pyridyl)benzimidazole catalyzed N-arylation of indoles. <i>Tetrahedron</i> , 2009 , 65, 10459-10462	4.2	36
84	UVA- and Visible-Light-Mediated Generation of Carbon Radicals from Organochlorides Using Nonmetal Photocatalyst. <i>Journal of Organic Chemistry</i> , 2018 , 83, 9381-9390	4.2	35
83	2-PhenylimidazolePdCl ₂ and 2-PhenylimidazolonePdCl ₂ Complexes: Single-Crystal and Powder X-ray Diffraction, ¹ H NMR Spectra, and Comparison of Catalytic Activities in Coupling Reactions. <i>Organometallics</i> , 2008 , 27, 3748-3752	3.8	35
82	Novel N,N-Bidentate Ligands for Enantioselective Copper(I)-Catalyzed Allylic Oxidation of Cyclic Olefins. <i>Advanced Synthesis and Catalysis</i> , 2008 , 350, 2639-2644	5.6	35
81	Oxidative transformation of thiols to disulfides promoted by activated carbon-air system. <i>Tetrahedron Letters</i> , 2010 , 51, 6734-6736	2	33
80	Catalytic hydrogen-transfer reactions of benzylic and allylic alcohols with palladium compounds in the presence of vinyl acetate or under an ethylene atmosphere. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2000 , 1501-1503		33
79	Novel enantioselective reaction of diketene with aldehydes promoted by chiral Schiff base-titanium alkoxide complex. <i>Journal of the Chemical Society Chemical Communications</i> , 1994 , 341-342		32
78	Synthesis of heteroaromatic compounds by oxidative aromatization using an activated carbon/molecular oxygen system. <i>Molecules</i> , 2009 , 14, 3073-93	4.8	29
77	Dehydrogenation of 1,2,3,4-tetrahydroquinoline and its related compounds: comparison of Pd/C-ethylene system and activated carbon-O ₂ system. <i>Tetrahedron Letters</i> , 2010 , 51, 4633-4635	2	27
76	Chiral Schiff bases as highly active and enantioselective catalysts in catalytic addition of dialkylzinc to aldehydes. <i>Chemistry - an Asian Journal</i> , 2008 , 3, 1465-71	4.5	27
75	Lewis base-catalyzed transformation of α,β -unsaturated aldehydes to saturated carboxylic acids, esters and amides. <i>Tetrahedron Letters</i> , 2002 , 43, 5645-5647	2	27
74	Asymmetric desymmetrization of 4,5-epoxycyclohex-1-ene by enantioselective allylic oxidation. <i>Organic Letters</i> , 2009 , 11, 3314-7	6.2	24
73	Highly efficient preparation of optically active 5-hydroxy-3-oxoesters by enantioselective reaction of diketene with aldehydes promoted by novel chiral Schiff base-titanium alkoxide complexes. <i>Tetrahedron: Asymmetry</i> , 1995 , 6, 1833-1836		24
72	Mechanistic Study of Oxidative Aromatization Using Activated Carbon-Molecular Oxygen System in the Synthesis of 2-Arylbenzazoles: Focus on the Role of Activated Carbon. <i>Bulletin of the Chemical Society of Japan</i> , 2009 , 82, 482-488	5.1	23
71	Benzylic oxygenation of alkylarenes with molecular oxygen in the presence of activated carbon. <i>Tetrahedron Letters</i> , 2004 , 45, 5457-5459	2	23
70	Practical and catalytic synthesis of 1,5-anhydrohex-1-en-3-uloses. <i>Tetrahedron</i> , 1999 , 55, 8331-8340	2.4	22
69	Tris(2,4,6-trimethoxyphenyl)phosphine (TTMPP): A Novel Catalyst for Selective Deacetylation. <i>Chemistry Letters</i> , 2001 , 30, 934-935	1.7	21
68	Enantioselective addition of diketene to aldehydes promoted by chiral schiff base-titanium alkoxide complex. Application to asymmetric synthesis of potential inhibitors of HMG coenzyme reductase. <i>Israel Journal of Chemistry</i> , 2001 , 41, 241-246	3.4	21

67	Efficient Synthesis of Substituted Indoles and Benzazoles by Oxidative Aromatization Using Activated Carbon-Molecular Oxygen System. <i>Heterocycles</i> , 2007 , 74, 629	0.8	20
66	Dehydrogenation of d-Glycals by Palladium Supported on Activated Charcoal under Ethylene Atmosphere: Synthesis of 1,5-Anhydrohex-1-en-3-uloses. <i>Synthesis</i> , 1999 , 1999, 1869-1871	2.9	20
65	Hydrogen transfer of d-glycals by palladium complexes under ethylene atmosphere. <i>Tetrahedron Letters</i> , 1999 , 40, 1171-1174	2	20
64	Formal total synthesis of (-)-oseltamivir phosphate. <i>Journal of Organic Chemistry</i> , 2011 , 76, 5477-9	4.2	19
63	Reaction of D-glycals with azidotrimethylsilane. <i>Carbohydrate Research</i> , 2001 , 333, 153-8	2.9	19
62	Enantioselective Copper-Catalyzed 1,4-Addition of Dialkylzincs to Enones Followed by Trapping with Allyl Iodide Derivatives. <i>Bulletin of the Chemical Society of Japan</i> , 2011 , 84, 640-647	5.1	18
61	Catalytic Enantioselective Reformatsky Reaction of Alkyl Iodoacetate with Aldehydes Catalyzed by Chiral Schiff Base. <i>Chemistry Letters</i> , 2008 , 37, 1298-1299	1.7	18
60	Oxidation of Secondary Benzylic Alcohols to Ketones by Activated Carbon-Molecular Oxygen System. <i>Chemistry Letters</i> , 2007 , 36, 1414-1415	1.7	18
59	Enantioselective copper-catalyzed 1,4-addition of dialkylzincs to enones using a novel N,N,P-Cu(II) complex. <i>Tetrahedron: Asymmetry</i> , 2012 , 23, 959-964		17
58	Complete reversal of enantioselection using oxazoline-containing Schiff base ligands derived from l-serine in enantioselective addition of diketene to aldehydes. <i>Tetrahedron: Asymmetry</i> , 2006 , 17, 2672-2677		17
57	Novel Knövenagel-type reaction via titanium enolate derived from Ti(O-i-Pr) ₄ and diketene. <i>Tetrahedron</i> , 2004 , 60, 6777-6783	2.4	17
56	Nitrobenzene as hydrogen acceptor in Pd/C-catalyzed hydrogen transfer reaction. <i>Tetrahedron Letters</i> , 2005 , 46, 4989-4991	2	17
55	Palladium-catalyzed stereoselective C-glycosidation of unprotected enones derived from d-glucal with trimethylsilyl cyanide. <i>Tetrahedron Letters</i> , 2000 , 41, 2591-2594	2	17
54	Enantioselective synthesis of (3S,5R,6E,8E)-Deca-6,8-dien-1,3,5-triol, a new metabolite from <i>Streptomyces Fimbriatus</i> via asymmetric reaction of diketene with 2,4-hexadienal promoted by chiral Schiff base-titanium alkoxide complexes. <i>Tetrahedron: Asymmetry</i> , 1995 , 6, 2511-2516		17
53	Photosensitization of Fluorofuroxans and Its Application to the Development of Visible Light-Triggered Nitric Oxide Donor. <i>Journal of Organic Chemistry</i> , 2017 , 82, 9647-9654	4.2	15
52	Efficient synthesis of carbohydrate-containing carbocyclic compounds based on palladium-catalyzed vinylation of sugars and subsequent Diels-Alder reaction. <i>Tetrahedron</i> , 1999 , 55, 12287-12294	2.4	15
51	Photoinduced Charge-Transfer State of 4-Carbazoyl-3-(trifluoromethyl)benzoic Acid: Photophysical Property and Application to Reduction of Carbon-Halogen Bonds as a Sensitizer. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 2006-10	4.5	15
50	Efficient synthesis of rare sugar D-allal via reversal of diastereoselection in the reduction of protected 1,5-anhydrohex-1-en-3-uloses: protecting group dependence of the stereoselection. <i>Journal of Organic Chemistry</i> , 2008 , 73, 9161-3	4.2	14

49	Condensation of 1-Fluorofuranoses and Silylated Nucleobases Catalyzed by Tetrafluorosilane. <i>Chemistry Letters</i> , 1987 , 16, 57-60	1.7	14
48	Fluorofuroxans: Synthesis and Application as Photoinduced Nitric Oxide Donors. <i>Asian Journal of Organic Chemistry</i> , 2016 , 5, 886-890	3	14
47	Dehydrogenative Formation of Resorcinol Derivatives Using Pd/C-Ethylene Catalytic System. <i>Journal of Organic Chemistry</i> , 2017 , 82, 2630-2640	4.2	12
46	Environmentally Benign Oxidation of Alcohols using Transition Metal Catalysts.. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2002 , 60, 137-144	0.2	12
45	HF β ridine promoted Friedel-Crafts type arylation of 2-acetoxy-D-glucal. Stereoselective synthesis of 1-arylhex-3-enopyranosiduloses. <i>Chemical Communications</i> , 2000 , 1329-1330	5.8	12
44	Efficient synthesis of unsaturated branched-chain sugars in aqueous media by Heck-type reaction. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1999 , 239-240		12
43	Study on the Photoinduced Nitric-Oxide-Releasing Ability of 4-Alkoxy Furoxans. <i>Asian Journal of Organic Chemistry</i> , 2017 , 6, 619-626	3	11
42	Synthesis of alkynyl furoxans. Rare carbon-carbon bond-forming reaction on a furoxan ring. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 1965-1969	3.9	11
41	Synthesis of Arylamines via Non-Aerobic Dehydrogenation Using a Palladium/Carbon-Ethylene System. <i>Advanced Synthesis and Catalysis</i> , 2018 , 360, 3297-3305	5.6	11
40	Synthesis of cyanofuroxans from 4-nitrofuroxans via C C bond forming reactions. <i>Tetrahedron Letters</i> , 2017 , 58, 3337-3340	2	11
39	Enantioselective alkylation of aldehydes using dialkylzincs catalyzed by simple chiral diols derived from naturally occurring monosaccharides. <i>Tetrahedron</i> , 2013 , 69, 4221-4225	2.4	11
38	Oxidative Conversion of Functionalized 3,4-Dihydropyrimidin-2(1H)-ones to the Corresponding Pyrimidin-2(1H)-ones Using Activated Carbon-Molecular Oxygen System. <i>Heterocycles</i> , 2008 , 76, 715	0.8	11
37	Modular Synthesis of Carbon-Substituted Furoxans via Radical Addition Pathway. Useful Tool for Transformation of Aliphatic Carboxylic Acids Based on "Build-and-Scrap" Strategy. <i>Organic Letters</i> , 2020 , 22, 1182-1187	6.2	10
36	Effect of ortho-substituents on the stereochemistry of 2-(o-substituted phenyl)-1H-imidazolined β alladium complexes. <i>Journal of Organometallic Chemistry</i> , 2010 , 695, 2022-2029 ²⁻³		10
35	Synthesis and Synthetic Application of Chloro- and Bromofuroxans. <i>Journal of Organic Chemistry</i> , 2020 , 85, 5959-5972	4.2	9
34	Oxidation of Secondary Benzylic Alcohols to Ketones and Benzylic Oxy β genation of Alkylarenes with Hydrogen Peroxide in the Presence of Activated Carbon. <i>Synlett</i> , 2012 , 23, 1683-1685	2.2	9
33	Thermal C-glycosylation of D-glucal with trimethylsilyl cyanide. <i>Carbohydrate Research</i> , 2000 , 325, 68-71	2.9	9
32	9-Aryl-3-aminocarbazole as an Environment- and Stimuli-Sensitive Fluorogen and Applications in Lipid Droplet Imaging. <i>Journal of Organic Chemistry</i> , 2019 , 84, 5535-5547	4.2	8

- 31 O- and N-Glycosidation of d-glycals using Ferrier rearrangement under Mitsunobu reaction conditions. Application to N-nucleoside synthesis. *Tetrahedron*, **2012**, 68, 1092-1096 2.4 8
- 30 Conversion of Cyclohexanones to Alkyl Aryl Ethers by Using a Pd/C-Ethylene System. *European Journal of Organic Chemistry*, **2017**, 2017, 409-413 3.2 8
- 29 C-Glycosidation of unprotected d-glycals with trimethylsilyl cyanide. *Tetrahedron Letters*, **1999**, 40, 1729-1730 7
- 28 Photocatalytic Reductive C-O Bond Cleavage of Alkyl Aryl Ethers by Using Carbazole Catalysts with Cesium Carbonate. *Journal of Organic Chemistry*, **2021**, 86, 2545-2555 4.2 7
- 27 Synthesis of Substituted Anilines from Cyclohexanones Using Pd/C-Ethylene System and Its Application to Indole Synthesis. *Organic Letters*, **2021**, 23, 1530-1534 6.2 7
- 26 Activated Carbon-Promoted Dehydrogenation of Hydroquinones to Benzoquinones, Naphthoquinones, and Anthraquinones under Molecular Oxygen Atmosphere. *Journal of Organic Chemistry*, **2019**, 84, 2997-3003 4.2 6
- 25 Simple Preparation of β -Amino Alcohols Possessing a tert-Butyl Group at the β -Carbon. *Synthesis*, **2012**, 44, 1625-1627 2.9 6
- 24 Tris(2,4,6-Trimethoxyphenyl)phosphine: Base Catalyst in the Transformation of α,β -Unsaturated Aldehydes to Saturated Carboxylic-Acid Derivatives. *Phosphorus, Sulfur and Silicon and the Related Elements*, **2007**, 182, 433-445 1 6
- 23 Asymmetric Carbon-Carbon Bond Forming Reactions Catalyzed by Chiral Schiff-Base-Titanium Alkoxide Complexes.. *Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry*, **1994**, 52, 488-497 6.2 6
- 22 Inositol Hexakis Phosphate is the Seasonal Phosphorus Reservoir in the Deciduous Woody Plant *Populus alba* L. *Plant and Cell Physiology*, **2017**, 58, 1477-1485 4.9 5
- 21 Synthesis of Furoxans (1,2,5-oxadiazole 2-oxides) from Styrenes and Nitrosonium Tetrafluoroborate in Non-Acidic Media and Mechanistic Study. *Journal of Heterocyclic Chemistry*, **2016**, 53, 1094-1105 1.9 5
- 20 Synthesis of sulfonyloxy furoxans via hydroxyfuroxan ammonium salts. *Tetrahedron*, **2018**, 74, 3642-3651 1.4 5
- 19 Synthesis of novel nucleosides and stereoselectivity of N-glycosidation. *Tetrahedron*, **2013**, 69, 595-599 2.4 4
- 18 Revisiting the Saito Photochemical Reduction and the Development of a One-Pot Deoxygenation of Alcohols. *Asian Journal of Organic Chemistry*, **2014**, 3, 1054-1057 3 4
- 17 Practical preparation of chiral keto-imine type ONO Schiff base ligands. *Tetrahedron: Asymmetry*, **2013**, 24, 543-547 4
- 16 Cleavage of 4,6-O-Benzylidene Acetal Using Sodium Hydrogen Sulfate Monohydrate. *Synthesis*, **2013**, 45, 1519-1523 2.9 4
- 15 Stereoselective C-glycosidation of unprotected D-glycals with trimethylsilyl cyanide. *Chirality*, **2003**, 15, 10-6 2.1 4
- 14 Borylfuroxans: Synthesis and Applications. *Organic Letters*, **2021**, 23, 4317-4321 6.2 4

13	A Fluorescent Naphthalenediimide-Alkoxyfuroxan Photoinduced Nitric Oxide Donor. <i>Bulletin of the Chemical Society of Japan</i> , 2019 , 92, 162-169	5.1	4
12	New Approach for Complete Reversal of Enantioselection Using Schiff Base Ligand. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2007 , 65, 969-976	0.2	3
11	Progress of Chiral Schiff Bases with C Symmetry in Metal-Catalyzed Asymmetric Reactions. <i>Chemical Record</i> , 2016 , 16, 2708-2735	6.6	3
10	Synthesis, structure, and catalytic activity of [Cp*Ru(η -ArCN) ₃]PF ₆ complexes. <i>Journal of Organometallic Chemistry</i> , 2021 , 933, 121653	2.3	3
9	Selective Synthesis of Some Aminosugars via Catalytic Aminohydroxylation of Protected 2,3-Unsaturated d-Gluco- and d-Galacto-2-hexenopyranosides. <i>Journal of Organic Chemistry</i> , 2020 , 85, 9179-9189	4.2	2
8	Regiodivergent Desymmetrization Reaction of β -Azabicycloheptene Providing Two Enantioenriched Structural Isomers. <i>Organic Letters</i> , 2021 , 23, 2411-2414	6.2	2
7	Synthesis of Enantiomerically Pure (8S,9S,10R,6Z)-Trihydroxyoctadec-6-enoic Acid. <i>Journal of Organic Chemistry</i> , 2017 , 82, 5146-5154	4.2	1
6	Selective Synthesis of Partially Protected d-Talopyranosides and d-Gulopyranosides via Catalytic Asymmetric Dihydroxylation: Multiplier Effects of Substrate Control and Catalyst Control. <i>Organic Letters</i> , 2016 , 18, 6058-6061	6.2	1
5	Asymmetric Synthesis of cis- and trans-2-Aryl-6-methylpyrans from D-Glucose by Arylation and Inversion of Configuration at the C-2 Position. <i>European Journal of Organic Chemistry</i> , 2014 , 2014, 244-253	3.2	1
4	HFBYridine: A Versatile Promoter for Monoacylation/Sulfonylation of Phenolic Diols and for Direct Conversion of t-Butyldimethylsilyl Ethers to the Corresponding Acetates. <i>Chemistry Letters</i> , 2012 , 41, 138-139	1.7	1
3	Furoxan Incorporation into C-H Bonds Enabling Nitrogen-Containing Functional Group Installation into the Same. <i>Journal of Organic Chemistry</i> , 2021 , 86, 15807-15817	4.2	1
2	A Concise Synthesis of Asymmetrically 4,5-Disubstituted 9,9-Dimethyl-9H-xanthenes. <i>Synthesis</i> , 2015 , 47, 187-192	2.9	0
1	Carbon-Carbon Bond Forming Reaction of Diketene with Benzaldehyde Catalyzed by Aluminum Alkoxides and Its Application to Asymmetric Reaction by Use of Diisopropyl L(+)-Tartrate-Aluminum Complexes. <i>Synthetic Communications</i> , 1994 , 24, 3249-3254	1.7	0