

# Masahiko Hayashi

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102  
papers

2,600  
citations

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	Furoxan Incorporation into C-H Bonds Enabling Nitrogen-Containing Functional Group Installation into the Same. <i>Journal of Organic Chemistry</i> , <b>2021</b> , 86, 15807-15817	4.2	1
101	Regiodivergent Desymmetrization Reaction of -Azabicycloheptene Providing Two Enantioenriched Structural Isomers. <i>Organic Letters</i> , <b>2021</b> , 23, 2411-2414	6.2	2
100	Borylfuroxans: Synthesis and Applications. <i>Organic Letters</i> , <b>2021</b> , 23, 4317-4321	6.2	4
99	Synthesis, structure, and catalytic activity of [Cp*Ru( $\eta$ -ArCN) <sub>3</sub> ]PF <sub>6</sub> complexes. <i>Journal of Organometallic Chemistry</i> , <b>2021</b> , 933, 121653	2.3	3
98	Photocatalytic Reductive C-O Bond Cleavage of Alkyl Aryl Ethers by Using Carbazole Catalysts with Cesium Carbonate. <i>Journal of Organic Chemistry</i> , <b>2021</b> , 86, 2545-2555	4.2	7
97	Synthesis of Substituted Anilines from Cyclohexanones Using Pd/C-Ethylene System and Its Application to Indole Synthesis. <i>Organic Letters</i> , <b>2021</b> , 23, 1530-1534	6.2	7
96	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> , <b>2020</b> , 85, 9179-9189	4.2	2
95	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> , <b>2020</b> , 22, 1182-1187	6.2	10
94	Synthesis and Synthetic Application of Chloro- and Bromofuroxans. <i>Journal of Organic Chemistry</i> , <b>2020</b> , 85, 5959-5972	4.2	9
93	9-Aryl-3-aminocarbazole as an Environment- and Stimuli-Sensitive Fluorogen and Applications in Lipid Droplet Imaging. <i>Journal of Organic Chemistry</i> , <b>2019</b> , 84, 5535-5547	4.2	8
92	Activated Carbon-Promoted Dehydrogenation of Hydroquinones to Benzoquinones, Naphthoquinones, and Anthraquinones under Molecular Oxygen Atmosphere. <i>Journal of Organic Chemistry</i> , <b>2019</b> , 84, 2997-3003	4.2	6
91	A Fluorescent Naphthalenediimide-Alkoxyfuroxan Photoinduced Nitric Oxide Donor. <i>Bulletin of the Chemical Society of Japan</i> , <b>2019</b> , 92, 162-169	5.1	4
90	UVA- and Visible-Light-Mediated Generation of Carbon Radicals from Organochlorides Using Nonmetal Photocatalyst. <i>Journal of Organic Chemistry</i> , <b>2018</b> , 83, 9381-9390	4.2	35
89	Synthesis of Arylamines via Non-Aerobic Dehydrogenation Using a Palladium/Carbon-Ethylene System. <i>Advanced Synthesis and Catalysis</i> , <b>2018</b> , 360, 3297-3305	5.6	11
88	Synthesis of sulfonyloxy furoxans via hydroxyfuroxan ammonium salts. <i>Tetrahedron</i> , <b>2018</b> , 74, 3642-3651	1.4	5
87	Study on the Photoinduced Nitric-Oxide-Releasing Ability of 4-Alkoxy Furoxans. <i>Asian Journal of Organic Chemistry</i> , <b>2017</b> , 6, 619-626	3	11
86	Synthesis of alkynyl furoxans. Rare carbon-carbon bond-forming reaction on a furoxan ring. <i>Organic and Biomolecular Chemistry</i> , <b>2017</b> , 15, 1965-1969	3.9	11

85	Dehydrogenative Formation of Resorcinol Derivatives Using Pd/C-Ethylene Catalytic System. <i>Journal of Organic Chemistry</i> , <b>2017</b> , 82, 2630-2640	4.2	12
84	Synthesis of Enantiomerically Pure (8S,9S,10R,6Z)-Trihydroxyoctadec-6-enoic Acid. <i>Journal of Organic Chemistry</i> , <b>2017</b> , 82, 5146-5154	4.2	1
83	Recent topics on catalytic asymmetric 1,4-addition. <i>Tetrahedron Letters</i> , <b>2017</b> , 58, 1793-1805	2	36
82	Photosensitization of Fluorofuroxans and Its Application to the Development of Visible Light-Triggered Nitric Oxide Donor. <i>Journal of Organic Chemistry</i> , <b>2017</b> , 82, 9647-9654	4.2	15
81	Inositol Hexakis Phosphate is the Seasonal Phosphorus Reservoir in the Deciduous Woody Plant <i>Populus alba</i> L. <i>Plant and Cell Physiology</i> , <b>2017</b> , 58, 1477-1485	4.9	5
80	Synthesis of cyanofuroxans from 4-nitrofuroxans via C C bond forming reactions. <i>Tetrahedron Letters</i> , <b>2017</b> , 58, 3337-3340	2	11
79	Conversion of Cyclohexanones to Alkyl Aryl Ethers by Using a Pd/C-Ethylene System. <i>European Journal of Organic Chemistry</i> , <b>2017</b> , 2017, 409-413	3.2	8
78	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> , <b>2016</b> , 18, 6058-6061	6.2	1
77	Fluorofuroxans: Synthesis and Application as Photoinduced Nitric Oxide Donors. <i>Asian Journal of Organic Chemistry</i> , <b>2016</b> , 5, 886-890	3	14
76	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> , <b>2016</b> , 11, 2006-10	4.5	15
75	Synthesis of Furoxans (1,2,5-oxadiazole 2-oxides) from Styrenes and Nitrosonium Tetrafluoroborate in Non-Acidic Media and Mechanistic Study. <i>Journal of Heterocyclic Chemistry</i> , <b>2016</b> , 53, 1094-1105	1.9	5
74	Progress of Chiral Schiff Bases with C Symmetry in Metal-Catalyzed Asymmetric Reactions. <i>Chemical Record</i> , <b>2016</b> , 16, 2708-2735	6.6	3
73	A Concise Synthesis of Asymmetrically 4,5-Disubstituted 9,9-Dimethyl-9H-xanthenes. <i>Synthesis</i> , <b>2015</b> , 47, 187-192	2.9	0
72	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> , <b>2014</b> , 2014, 244-253	3.2	1
71	Revisiting the Saito Photochemical Reduction and the Development of a One-Pot Deoxygenation of Alcohols. <i>Asian Journal of Organic Chemistry</i> , <b>2014</b> , 3, 1054-1057	3	4
70	Synthesis of novel nucleosides and stereoselectivity of N-glycosidation. <i>Tetrahedron</i> , <b>2013</b> , 69, 595-599	2.4	4
69	Enantioselective alkylation of aldehydes using dialkylzincs catalyzed by simple chiral diols derived from naturally occurring monosaccharides. <i>Tetrahedron</i> , <b>2013</b> , 69, 4221-4225	2.4	11
68	Practical preparation of chiral keto-imine type ONO Schiff base ligands. <i>Tetrahedron: Asymmetry</i> , <b>2013</b> , 24, 543-547		4

67	Cleavage of 4,6-O-Benzylidene Acetal Using Sodium Hydrogen Sulfate Monohydrate. <i>Synthesis</i> , <b>2013</b> , 45, 1519-1523	2.9	4
66	O- and N-Glycosidation of d-glycals using Ferrier rearrangement under Mitsunobu reaction conditions. Application to N-nucleoside synthesis. <i>Tetrahedron</i> , <b>2012</b> , 68, 1092-1096	2.4	8
65	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> , <b>2012</b> , 41, 138-139	1.7	1
64	Enantioselective copper-catalyzed 1,4-addition of dialkylzincs to enones using a novel N,N,P-Cu(II) complex. <i>Tetrahedron: Asymmetry</i> , <b>2012</b> , 23, 959-964		17
63	Oxidation of Secondary Benzylic Alcohols to Ketones and Benzylic Oxygenation of Alkylarenes with Hydrogen Peroxide in the Presence of Activated Carbon. <i>Synlett</i> , <b>2012</b> , 23, 1683-1685	2.2	9
62	Simple Preparation of $\beta$ -Amino Alcohols Possessing a tert-Butyl Group at the $\beta$ -Carbon. <i>Synthesis</i> , <b>2012</b> , 44, 1625-1627	2.9	6
61	Formal total synthesis of (-)-oseltamivir phosphate. <i>Journal of Organic Chemistry</i> , <b>2011</b> , 76, 5477-9	4.2	19
60	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> , <b>2011</b> , 84, 640-647	5.1	18
59	Effect of ortho-substituents on the stereochemistry of 2-(o-substituted phenyl)-1H-imidazole-palladium complexes. <i>Journal of Organometallic Chemistry</i> , <b>2010</b> , 695, 2022-2029 <sup>2-3</sup>		10
58	Dehydrogenation of 1,2,3,4-tetrahydroquinoline and its related compounds: comparison of Pd/C $\beta$ ethylene system and activated carbon/D <sub>2</sub> system. <i>Tetrahedron Letters</i> , <b>2010</b> , 51, 4633-4635	2	27
57	Oxidative transformation of thiols to disulfides promoted by activated carbon/air system. <i>Tetrahedron Letters</i> , <b>2010</b> , 51, 6734-6736	2	33
56	Synthesis of heteroaromatic compounds by oxidative aromatization using an activated carbon/molecular oxygen system. <i>Molecules</i> , <b>2009</b> , 14, 3073-93	4.8	29
55	Copper(I)-2-(2'-pyridyl)benzimidazole catalyzed N-arylation of indoles. <i>Tetrahedron</i> , <b>2009</b> , 65, 10459-10462	4.7	36
54	Asymmetric desymmetrization of 4,5-epoxycyclohex-1-ene by enantioselective allylic oxidation. <i>Organic Letters</i> , <b>2009</b> , 11, 3314-7	6.2	24
53	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> , <b>2009</b> , 82, 482-488	5.1	23
52	Novel N,N,P-tridentate ligands for the highly enantioselective copper-catalyzed 1,4-addition of dialkylzincs to enones. <i>Organic Letters</i> , <b>2008</b> , 10, 3509-12	6.2	51
51	2-Phenylimidazole-PdCl <sub>2</sub> and 2-Phenylimidazole-PdCl <sub>2</sub> Complexes: Single-Crystal and Powder X-ray Diffraction, <sup>1</sup> H NMR Spectra, and Comparison of Catalytic Activities in Coupling Reactions. <i>Organometallics</i> , <b>2008</b> , 27, 3748-3752	3.8	35
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> , <b>2008</b> , 73, 9161-3	4.2	14

49	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> , <b>2008</b> , 76, 715	0.8	11
48	Catalytic Enantioselective Reformatsky Reaction of Alkyl Iodoacetate with Aldehydes Catalyzed by Chiral Schiff Base. <i>Chemistry Letters</i> , <b>2008</b> , 37, 1298-1299	1.7	18
47	Oxidation using activated carbon and molecular oxygen system. <i>Chemical Record</i> , <b>2008</b> , 8, 252-67	6.6	40
46	Novel N,N-Bidentate Ligands for Enantioselective Copper(I)-Catalyzed Allylic Oxidation of Cyclic Olefins. <i>Advanced Synthesis and Catalysis</i> , <b>2008</b> , 350, 2639-2644	5.6	35
45	Chiral Schiff bases as highly active and enantioselective catalysts in catalytic addition of dialkylzinc to aldehydes. <i>Chemistry - an Asian Journal</i> , <b>2008</b> , 3, 1465-71	4.5	27
44	Tris(2,4,6-Trimethoxyphenyl)phosphine: Base Catalyst in the Transformation of $\alpha$ -Unsaturated Aldehydes to Saturated Carboxylic-Acid Derivatives. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , <b>2007</b> , 182, 433-445	1	6
43	Ligand Effects of 2-(2-Pyridyl)benzazole-Pd Complexes on the X-ray Crystallographic Structures, $^1$ H NMR Spectra, and Catalytic Activities in Mizoroki-Bleek Reactions. <i>Organometallics</i> , <b>2007</b> , 26, 6551-6555	3.8	56
42	New Approach for Complete Reversal of Enantioselection Using Schiff Base Ligand. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , <b>2007</b> , 65, 969-976	0.2	3
41	Imidazole and Imidazoline Derivatives as N-Donor Ligands for Palladium-Catalyzed Mizoroki-Bleek Reaction. <i>Advanced Synthesis and Catalysis</i> , <b>2007</b> , 349, 833-835	5.6	54
40	An efficient synthesis of 2-arylimidazoles by oxidation of 2-arylimidazolines using activated carbon $\alpha$ 2 system and its application to palladium-catalyzed Mizoroki-Bleek reaction. <i>Tetrahedron</i> , <b>2007</b> , 63, 2414-2417	2.4	40
39	Efficient Synthesis of Substituted Indoles and Benzazoles by Oxidative Aromatization Using Activated Carbon-Molecular Oxygen System. <i>Heterocycles</i> , <b>2007</b> , 74, 629	0.8	20
38	Oxidation of Secondary Benzylic Alcohols to Ketones by Activated Carbon-Molecular Oxygen System. <i>Chemistry Letters</i> , <b>2007</b> , 36, 1414-1415	1.7	18
37	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> , <b>2006</b> , 17, 2672-2677		17
36	New chiral Schiff base as a tridentate ligand for catalytic enantioselective addition of diethylzinc to aldehydes. <i>Journal of Organic Chemistry</i> , <b>2006</b> , 71, 7091-3	4.2	67
35	A simple synthesis of 2-arylbenzothiazoles and its application to palladium-catalyzed Mizoroki-Bleek reaction. <i>Tetrahedron Letters</i> , <b>2006</b> , 47, 4231-4233	2	50
34	Nitrobenzene as hydrogen acceptor in Pd/C-catalyzed hydrogen transfer reaction. <i>Tetrahedron Letters</i> , <b>2005</b> , 46, 4989-4991	2	17
33	Use of isopropyl alcohol as a solvent in Ti(O-i-Pr) $_4$ -catalyzed Knoevenagel reactions. <i>Tetrahedron</i> , <b>2005</b> , 61, 7981-7985	2.4	66
32	Benzylic oxygenation of alkylarenes with molecular oxygen in the presence of activated carbon. <i>Tetrahedron Letters</i> , <b>2004</b> , 45, 5457-5459	2	23

- 31 Novel Knövenagel-type reaction via titanium enolate derived from Ti(O-i-Pr)<sub>4</sub> and diketene. *Tetrahedron*, **2004**, 60, 6777-6783 2.4 17
- 30 Stereoselective C-glycosidation of unprotected D-glycals with trimethylsilyl cyanide. *Chirality*, **2003**, 15, 10-6 2.1 4
- 29 Oxidative aromatization of 9,10-dihydroanthracenes using molecular oxygen promoted by activated carbon. *Journal of Organic Chemistry*, **2003**, 68, 8272-3 4.2 37
- 28 Direct and practical synthesis of 2-arylbenzoxazoles promoted by activated carbon. *Organic Letters*, **2003**, 5, 3713-5 6.2 207
- 27 Lewis base-catalyzed transformation of  $\alpha$ -unsaturated aldehydes to saturated carboxylic acids, esters and amides. *Tetrahedron Letters*, **2002**, 43, 5645-5647 2 27
- 26 Environmentally Benign Oxidation of Alcohols using Transition Metal Catalysts.. *Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry*, **2002**, 60, 137-144 0.2 12
- 25 Oxidative aromatization of 1,3,5-trisubstituted pyrazolines and Hantzsch 1,4-dihydropyridines by Pd/C in acetic acid. *Organic Letters*, **2002**, 4, 3955-7 6.2 217
- 24 Tris(2,4,6-trimethoxyphenyl)phosphine (TTMPP): A Novel Catalyst for Selective Deacetylation. *Chemistry Letters*, **2001**, 30, 934-935 1.7 21
- 23 Reaction of D-glycals with azidotrimethylsilane. *Carbohydrate Research*, **2001**, 333, 153-8 2.9 19
- 22 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. *Israel Journal of Chemistry*, **2001**, 41, 241-246 3.4 21
- 21 Thermal C-glycosylation of D-glucal with trimethylsilyl cyanide. *Carbohydrate Research*, **2000**, 325, 68-71 2.9 9
- 20 Palladium-catalyzed stereoselective C-glycosidation of unprotected enones derived from d-glucal with trimethylsilyl cyanide. *Tetrahedron Letters*, **2000**, 41, 2591-2594 2 17
- 19 HF<sub>2</sub>Pyridine promoted Friedel-Crafts type arylation of 2-acetoxy-D-glucal. Stereoselective synthesis of 1-arylhex-3-enopyranosiduloses. *Chemical Communications*, **2000**, 1329-1330 5.8 12
- 18 Catalytic hydrogen-transfer reactions of benzylic and allylic alcohols with palladium compounds in the presence of vinyl acetate or under an ethylene atmosphere. *Journal of the Chemical Society, Perkin Transactions 1*, **2000**, 1501-1503 33
- 17 Environmentally benign oxidation using a palladium catalyst system. *Green Chemistry*, **2000**, 2, 257-260 10 59
- 16 Dehydrogenation of d-Glycals by Palladium Supported on Activated Charcoal under Ethylene Atmosphere: Synthesis of 1,5-Anhydrohex-1-en-3-uloses. *Synthesis*, **1999**, 1999, 1869-1871 2.9 20
- 15 Hydrogen transfer of d-glycals by palladium complexes under ethylene atmosphere. *Tetrahedron Letters*, **1999**, 40, 1171-1174 2 20
- 14 C-Glycosidation of unprotected d-glycals with trimethylsilyl cyanide. *Tetrahedron Letters*, **1999**, 40, 1729-1730 7

13	Practical and catalytic synthesis of 1,5-anhydrohex-1-en-3-uloses. <i>Tetrahedron</i> , <b>1999</b> , 55, 8331-8340	2.4	22
12	Efficient synthesis of carbohydrate-containing carbocyclic compounds based on palladium-catalyzed vinylation of sugars and subsequent Diels-Alder reaction. <i>Tetrahedron</i> , <b>1999</b> , 55, 12287-12294	2.4	15
11	Efficient synthesis of unsaturated branched-chain sugars in aqueous media by Heck-type reaction. <i>Journal of the Chemical Society Perkin Transactions 1</i> , <b>1999</b> , 239-240		12
10	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> , <b>1995</b> , 6, 1833-1836		24
9	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> , <b>1995</b> , 6, 2511-2516		17
8	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> , <b>1994</b> , 24, 3249-3254	1.7	0
7	Asymmetric carbon-carbon bond forming reactions catalyzed by chiral Schiff base-titanium alkoxide complexes. <i>Tetrahedron</i> , <b>1994</b> , 50, 4385-4398	2.4	90
6	Novel enantioselective reaction of diketene with aldehydes promoted by chiral Schiff base-titanium alkoxide complex. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1994</b> , 341-342		32
5	Asymmetric Carbon-Carbon Bond Forming Reactions Catalyzed by Chiral Schiff-Base-Titanium Alkoxide Complexes.. <i>Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry</i> , <b>1994</b> , 52, 488-497	0.2	6
4	Enantioselective trimethylsilylcyanation of some aldehydes catalyzed by chiral Schiff base-titanium alkoxide complexes. <i>Journal of Organic Chemistry</i> , <b>1993</b> , 58, 1515-1522	4.2	185
3	Enantioselective trimethylsilylcyanation of some aldehydes by chiral titanium Schiff base complexes. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1991</b> , 1752		79
2	Condensation of 1-Fluorofuranoses and Silylated Nucleobases Catalyzed by Tetrafluorosilane. <i>Chemistry Letters</i> , <b>1987</b> , 16, 57-60	1.7	14
1	SIMPLE SYNTHESIS OF GLYCOSYL FLUORIDES. <i>Chemistry Letters</i> , <b>1984</b> , 13, 1747-1750	1.7	127