

Shun-Ichi Murahashi

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#	Paper	IF	Citations
228	Ruthenium-Catalyzed Reactions for Organic Synthesis. <i>Chemical Reviews</i> , 1998 , 98, 2599-2660	68.1	859
227	Synthetic Aspects of Metal-Catalyzed Oxidations of Amines and Related Reactions. <i>Angewandte Chemie International Edition in English</i> , 1995 , 34, 2443-2465		448
226	Aerobic ruthenium-catalyzed oxidative cyanation of tertiary amines with sodium cyanide. <i>Journal of the American Chemical Society</i> , 2003 , 125, 15312-3	16.4	417
225	Ruthenium catalyzed biomimetic oxidation in organic synthesis inspired by cytochrome P-450. <i>Chemical Society Reviews</i> , 2008 , 37, 1490-501	58.5	379
224	Ruthenium-catalyzed oxidative cyanation of tertiary amines with molecular oxygen or hydrogen peroxide and sodium cyanide: sp ³ C-H bond activation and carbon-carbon bond formation. <i>Journal of the American Chemical Society</i> , 2008 , 130, 11005-12	16.4	314
223	Ruthenium-catalyzed oxidative cyanation of tertiary amines with hydrogen peroxide and sodium cyanide. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 6931-3	16.4	223
222	The reaction of π -vinylpalladium complexes with alkyllithiums. Stereospecific syntheses of olefins from vinyl halides and alkyllithiums. <i>Journal of Organometallic Chemistry</i> , 1975 , 91, C39-C42	2.3	204
221	Copper(I)-Catalyzed Amination of Propargyl Esters. Selective Synthesis of Propargylamines, 1-Alken-3-ylamines, and (Z)-Allylamines. <i>Journal of Organic Chemistry</i> , 1994 , 59, 2282-2284	4.2	195
220	Low-valent ruthenium and iridium hydride complexes as alternatives to Lewis acid and base catalysts. <i>Accounts of Chemical Research</i> , 2000 , 33, 225-33	24.3	179
219	Flavin catalyzed oxidations of sulfides and amines with molecular oxygen. <i>Journal of the American Chemical Society</i> , 2003 , 125, 2868-9	16.4	172
218	Asymmetric baeyer-villiger reaction with hydrogen peroxide catalyzed by a novel planar-chiral bisflavin. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 2366-8	16.4	161
217	Selenium dioxide catalyzed oxidation of secondary amines with hydrogen peroxide. Simple synthesis of nitrones from secondary amines. <i>Tetrahedron Letters</i> , 1987 , 28, 2383-2386	2	159
216	Ruthenium catalyzed synthesis of secondary or tertiary amines from amines and alcohols. <i>Tetrahedron Letters</i> , 1982 , 23, 229-232	2	156
215	Ruthenium-catalyzed aldol and Michael reactions of nitriles. Carbon-carbon bond formation by α -C-H activation of nitriles.. <i>Journal of the American Chemical Society</i> , 1995 , 117, 12436-12451	16.4	155
214	Ruthenium-Catalyzed Transformations of Amino Alcohols to Lactams. <i>Synlett</i> , 1991 , 1991, 693-694	2.2	148
213	An aerobic, organocatalytic, and chemoselective method for Baeyer-Villiger oxidation. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 1704-6	16.4	132
212	Ruthenium catalyzed transformation of alcohols to esters and lactones. <i>Tetrahedron Letters</i> , 1981 , 22, 5327-5330	2	116

211	Ruthenium-catalyzed oxidation of alkanes with tert-butyl hydroperoxide and peracetic acid. <i>Journal of Organic Chemistry</i> , 2000 , 65, 9186-93	4.2	112
210	Synthesis and Transformations of Nitrones for Organic Synthesis. <i>Chemical Reviews</i> , 2019 , 119, 4684-4716	6.1	109
209	Aerobic Ruthenium-Catalyzed Oxidative Transformation of Secondary Amines to Imines. <i>Synlett</i> , 2007 , 2007, 1675-1678	2.2	108
208	Palladium(II)-catalyzed amidation of alkenes. <i>Tetrahedron Letters</i> , 1992 , 33, 6643-6646	2	106
207	Synthetische Aspekte metallkatalysierter Oxidationen von Aminen und verwandte Reaktionen. <i>Angewandte Chemie</i> , 1995 , 107, 2670-2693	3.6	104
206	Ruthenium-catalysed oxidation of secondary amines to imines using t-butyl hydroperoxide. <i>Journal of the Chemical Society Chemical Communications</i> , 1985 , 613		95
205	Ruthenium-catalyzed oxidation of tertiary amines with hydrogen peroxide in the presence of methanol. <i>Tetrahedron Letters</i> , 1992 , 33, 6991-6994	2	90
204	Aerobic oxidation of alkanes and alkenes in the presence of aldehydes catalyzed by copper salts and copper-crown ether. <i>Journal of Molecular Catalysis A</i> , 1997 , 117, 21-37		87
203	Fe ₂ O ₃ -catalyzed baeyer-villiger oxidation of ketones with molecular oxygen in the presence of aldehydes. <i>Tetrahedron Letters</i> , 1992 , 33, 7557-7560	2	87
202	Ruthenium-catalyzed cytochrome P-450 type oxidation of alkanes with alkyl hydroperoxides. <i>Tetrahedron Letters</i> , 1993 , 34, 1299-1302	2	87
201	Palladium(O)-catalyzed allylic alkylation and amination of allylic phosphates. <i>Tetrahedron Letters</i> , 1982 , 23, 5549-5552	2	87
200	Rhodium complex-catalyzed reaction of isonitriles with carbonyl compounds: catalytic synthesis of pyrroles. <i>Organic Letters</i> , 2001 , 3, 421-4	6.2	82
199	Aerobic oxidations of alkanes and alkenes in the presence of aldehydes catalysed by copper salts. <i>Journal of the Chemical Society Chemical Communications</i> , 1993 , 139		81
198	Metalloporphyrin-Catalyzed Oxidation of Alkanes with Molecular Oxygen in the Presence of Acetaldehyde. <i>Tetrahedron Letters</i> , 1995 , 36, 8059-8062	2	80
197	Palladium-catalyzed cross-coupling reaction of organic halides with Grignard reagents, organolithium compounds and heteroatom nucleophiles. <i>Journal of Organometallic Chemistry</i> , 2002 , 653, 27-33	2.3	78
196	Ruthenium-catalyzed hydration of nitriles and transformation of Eketonitriles to ene-lactams: total synthesis of (±)-pumiliotoxin C. <i>Tetrahedron</i> , 1993 , 49, 8805-8826	2.4	77
195	The First Isolation and Characterization of a Palladium-Copper Heterometallic Complex Bearing a μ-Oxo Atom Derived from Molecular Oxygen. <i>Journal of the American Chemical Society</i> , 1996 , 118, 3990-3991	16.4	76
194	Enantioselective addition of ketene silyl acetals to nitrones catalyzed by chiral titanium complexes. Synthesis of optically active beta-amino acids. <i>Journal of the American Chemical Society</i> , 2002 , 124, 2888-2891	16.4	74

- 193 Ruthenium-Catalyzed Oxidation of Phenols with Alkyl Hydroperoxides. A Novel, Facile Route to 2-Substituted Quinones. *Journal of the American Chemical Society*, **1996**, 118, 2509-2510 16.4 72
- 192 Palladium-Catalyzed Asymmetric Alkylation of 2,3-Alkadienyl Phosphates. Synthesis of Optically Active 2-(2,3-Alkadienyl)malonates. *Chemistry Letters*, **2002**, 31, 140-141 1.7 71
- 191 Ruthenium-Catalyzed Oxidative Cyanation of Tertiary Amines with Hydrogen Peroxide and Sodium Cyanide. *Angewandte Chemie*, **2005**, 117, 7091-7093 3.6 69
- 190 A New Way for Efficient Catalysis by Using Low Valent Ruthenium Complexes as Redox Lewis Acid and Base Catalysts. *Bulletin of the Chemical Society of Japan*, **1996**, 69, 1805-1824 5.1 69
- 189 Conversion of alcohols into unsymmetrical secondary or tertiary amines by a palladium catalyst. Synthesis of N-substituted pyrroles. *Journal of the Chemical Society Chemical Communications*, **1974**, 931 68
- 188 Palladium-catalyzed asymmetric amination and imidation of 2,3-allenyl phosphates. *Organic Letters*, **2005**, 7, 5837-9 6.2 65
- 187 Transition-metal-based Lewis acid and base ambiphilic catalysts of iridium hydride complexes: multicomponent synthesis of glutarimides. *Angewandte Chemie - International Edition*, **2003**, 42, 3302-4 16.4 65
- 186 Palladium-catalyzed Carbonylation of Allylamines. Synthesis of β -unsaturated amides by one-carbon homologation of Allylamines. *Tetrahedron*, **1994**, 50, 453-464 2.4 65
- 185 Flavin-catalyzed oxidation of amines and sulfides with molecular oxygen: biomimetic green oxidation. *Chemistry - an Asian Journal*, **2006**, 1, 136-47 4.5 63
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- 182 Tungstate-Catalyzed Decarboxylative Oxidation of N-Alkyl- α -amino Acids: An Efficient Method for Regioselective Synthesis of Nitrones. *Journal of Organic Chemistry*, **1994**, 59, 6170-6172 4.2 58
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- 180 Asymmetric BaeyerVilliger Reaction with Hydrogen Peroxide Catalyzed by a Novel Planar-Chiral Bisflavin. *Angewandte Chemie*, **2002**, 114, 2472-2474 3.6 56
- 179 Palladium(O) catalyzed azidation and amination of allyl acetates. Selective synthesis of allyl azides and primary allylamines. *Tetrahedron Letters*, **1986**, 27, 227-230 2 55
- 178 Palladium(0)-catalyzed carbonylation of allyl phosphates and allyl acetates. Selective synthesis of β -unsaturated esters. *Tetrahedron Letters*, **1988**, 29, 4945-4948 2 55
- 177 Iridium Hydride Complex Catalyzed Addition of Nitriles to CarbonNitrogen Triple Bonds of Nitriles. *Journal of the American Chemical Society*, **1998**, 120, 4244-4245 16.4 52
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- 175 Palladium(II)-catalyzed cyclization of β -unsaturated alcohols synthesis of 2-vinyltetrahydrofurans. *Tetrahedron Letters*, **1976**, 17, 1821-1824 2 52
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- 172 Palladium(II)-catalysed oxidation of carbon-carbon double bonds of allylic compounds with molecular oxygen; regioselective formation of aldehydes. *Journal of the Chemical Society Chemical Communications*, **1991**, 1559-1560 50
- 171 Ruthenium catalyzed oxidation of cyanohydrins to acyl cyanides useful reagents for selective N-benzoylation of aminoalcohols. *Tetrahedron Letters*, **1985**, 26, 925-928 2 50
- 170 Palladium-Catalyzed Double and Single Carbonylations of β -Amino Alcohols. Selective Synthesis of Morpholine-2,3-diones and Oxazolidin-2-ones and Applications for Synthesis of α -Oxo Carboxylic Acids. *Bulletin of the Chemical Society of Japan*, **1996**, 69, 2079-2090 5.1 49
- 169 Novel method for β -substitution of amines via N-Methoxycarbonyl- β -butyldioxyamines. *Tetrahedron Letters*, **1990**, 31, 7475-7478 2 49
- 168 Aerobic oxidation of alkanes in the presence of acetaldehyde catalysed by copper-crown ether. *Tetrahedron Letters*, **1996**, 37, 1633-1636 2 48
- 167 Flavin-catalyzed aerobic oxidation of sulfides and thiols with formic acid/triethylamine. *Chemical Communications*, **2014**, 50, 10295-8 5.8 47
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- 164 Synthesis of Oxygen-containing Heterocycles Using Palladium(II) Catalysts. *Heterocycles*, **1992**, 33, 1079-1088 4.8 45
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- 162 Regioselectivity of Palladium(II)-Induced Intramolecular Cyclization of 2-(3-Methyl-2-butenyl)phenol. *Bulletin of the Chemical Society of Japan*, **1976**, 49, 3662-3665 5.1 44
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- 156 Palladium-induced pyridine synthesis from unsaturated ketoximes. *Tetrahedron Letters*, **1976**, 17, 383-386 42
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- 150 Oxidation of primary amines to oximes with molecular oxygen using 1,1-diphenyl-2-picrylhydrazyl and $\text{WO}_3/\text{Al}_2\text{O}_3$ as catalysts. *Journal of Organic Chemistry*, **2013**, 78, 2301-10 4.2 38
- 149 Manganese catalyzed asymmetric oxidation of alkanes to optically active ketones bearing asymmetric center at the β -position. *Tetrahedron Letters*, **1998**, 39, 7921-7924 2 37
- 148 Manganese-catalyzed enantioselective oxidation of C β bonds of alkanes and silyl ethers to optically active ketones. *Tetrahedron: Asymmetry*, **2005**, 16, 3527-3535 35
- 147 Rhodium Catalyzed Hydrogenation of Quinolines and Isoquinolines under Water-Gas Shift Conditions. *Bulletin of the Chemical Society of Japan*, **1989**, 62, 2968-2976 5.1 35
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- 143 Catalysis of Pd(II)-Catalyzed Acetalization of Alkenes with Diols. *Bulletin of the Chemical Society of Japan*, **1990**, 63, 166-169 5.1 34
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- 141 The Electron Spin Resonance of Triplet Dihydrodibenzo[a,d]cycloheptenyliidene, Dibenzo[a,d]cycloheptenyliidene, and Tribenzo[a,c,e]cycloheptenyliidene. *Journal of the American Chemical Society*, **1967**, 89, 1259-1260 16.4 34
- 140 Palladium(II)-catalyzed oxygenation of the carbon-carbon double bond by molecular oxygen: A probe for involvement of a palladium hydroperoxide species. *Journal of Molecular Catalysis*, **1992**, 74, 489-498 33

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138	Titanium (III) induced transformations of N,N-disubstituted hydroxylamines to imines and secondary amines. <i>Tetrahedron Letters</i> , 1985 , 26, 4633-4636	2	33
137	Ruthenium-catalysed oxidation of alkanes with peracetic acid in trifluoroacetic acid: ruthenium as an efficient catalyst for the oxidation of unactivated C-H bonds. <i>Chemical Communications</i> , 2001 , 65-66	5.8	31
136	Iridium-catalyzed reactions of trifluoromethylated compounds with alkenes: a C(sp ³)-H bond activation alpha to the trifluoromethyl group. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 2047-2050	16.4	30
135	A novel oxidative ring-opening reaction of isoxazolidines: syntheses of β -amino ketones and β -amino acid esters from secondary amines. <i>Tetrahedron Letters</i> , 1988 , 29, 5949-5952	2	30
134	Palladium(0) catalyzed 3-aza-cope rearrangement of N-allylenamines. <i>Tetrahedron Letters</i> , 1985 , 26, 5563-5566	3	30
133	Ruthenium-catalyzed oxidation of alkanes with peracids. <i>Tetrahedron Letters</i> , 1994 , 35, 7953-7956	2	29
132	SYNTHESIS OF NATURAL AND UNNATURAL FRONTALIN. <i>Chemistry Letters</i> , 1985 , 14, 1529-1530	1.7	29
131	The reaction of β -unsaturated ketoximes into isoxazoles with palladium complexes. <i>Tetrahedron Letters</i> , 1973 , 14, 5075-5076	2	28
130	Asymmetric Synthesis of β -Amino Acids by Addition of Chiral Enolates to Nitrones via N-Acyloxyiminium Ions. <i>Bulletin of the Chemical Society of Japan</i> , 2000 , 73, 2423-2444	5.1	27
129	Ruthenium-Catalyzed Oxidation of Alcohols with Peracids. <i>Synlett</i> , 1995 , 1995, 733-734	2.2	27
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125	Mechanism of the interconversions between C- and N-bound transition metal alpha-cyanocarbanions. <i>Journal of the American Chemical Society</i> , 2002 , 124, 6842-3	16.4	26
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123	Palladium-Promoted Transformation of β -Amino Ketones to Enaminones. <i>Bulletin of the Chemical Society of Japan</i> , 1987 , 60, 3285-3290	5.1	25
122	Asymmetric Synthesis of β -Amino Acids by Addition of Chiral Enolates to N-Acyloxyiminium Ions and Application for Synthesis of Optically Active 5-Substituted 8-Methylindolizidines. <i>Organic Letters</i> , 1999 , 1, 107-110	6.2	24

121	Selective transformation of organoboranes to grignard reagents by using pentane-1,5-di(magnesium bromide). Syntheses of the pheromones of southern armyworm moth and Douglas fir tussock moth. <i>Tetrahedron Letters</i> , 1979 , 20, 1237-1240	2	24
120	Chlorinated Phthalocyanine Iron(II) Complex Catalyzed Oxidation of Alkanes and Alkenes with Molecular Oxygen in the Presence of Acetaldehyde. <i>Synlett</i> , 2003 , 2003, 0321-0324	2.2	23
119	Transition-Metal-Based Lewis Acid and Base Ambiphilic Catalysts of Iridium Hydride Complexes: Multicomponent Synthesis of Glutarimides. <i>Angewandte Chemie</i> , 2003 , 115, 3424-3426	3.6	23
118	Hydrogenation and Transfer Hydrogenation 2005 , 3-52		23
117	Asymmetric hydrosilylation of nitrones using ruthenium(II) phosphine complex catalysts; syntheses of optically active N,N-disubstituted hydroxylamines and secondary amines. <i>Journal of the Chemical Society Chemical Communications</i> , 1994 , 725		23
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115	Amine Oxidation 497-507		22
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110	Palladium(II)-Catalyzed Diastereoselective Acetalization of Hydroxyalkenes. <i>Chemistry Letters</i> , 1990 , 19, 1387-1390	1.7	20
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108	Palladium-Catalyzed Reaction of 2-Vinyl-2,3-dihydrobenzofurans and Chroman with Nucleophiles. <i>Bulletin of the Chemical Society of Japan</i> , 1986 , 59, 2191-2193	5.1	20
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106	The Heck reaction in the presence of molecular oxygen. <i>Tetrahedron Letters</i> , 2002 , 43, 9323-9325	2	19
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104	cis-Oxypalladation Complexes Derived from (1R,5R)-2(10),3-Pinadiene and Their Utilization in Pd(II)-catalyzed Enantioselective Cyclization of 2-(trans-2-Butenyl)phenols. <i>Bulletin of the Chemical Society of Japan</i> , 1985 , 58, 3282-3290	5.1	19

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95	Ruthenium complex catalysed condensation of nitriles with alcohols. <i>Journal of the Chemical Society Chemical Communications</i> , 1994 , 1359		17
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91	Switchable C- and N-bound isomers of transition-metal cyanocarbanions: synthesis and interconversions of cyclopentadienyl ruthenium complexes of phenylsulfonylacetonitrile anions. <i>Chemistry - A European Journal</i> , 2008 , 14, 2482-98	4.8	16
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89	Preparation and characterisation of a palladium-copper heterometallic complex and its catalytic activity towards oxidation of alkenes. <i>Journal of the Chemical Society Chemical Communications</i> , 1994 , 1433-1434		16
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