

Nishiyama Yutaka

List of Publications (1986-2006)

Papers

80. Synthesis of 1,4-diketones: reaction of α -bromo ketones with tetrakis(dimethylamino)ethylene (TDAE)
Nishiyama, Yutaka; Kobayashi, Akihiro
Tetrahedron Letters **2006**, 47(31), 5565-5567.
79. A facile method for the synthesis of 1,3-oxathiolan-2-ones by reaction of oxiranes, sulfur, and carbon monoxide
Nishiyama, Yutaka; Katahira, Chisato; Sonoda, Noboru
Tetrahedron **2006**, 62(24), 5803-5807.
78. A new method for the synthesis of 2-aryl-1*H*-benzimidazoles: Selenium-catalyzed reductive *N*-heterocyclization of benzylidene(2-nitroaryl)amines with carbon monoxide
Nishiyama, Yutaka; Fujimoto, Mayu; Sonoda, Noboru
Synlett **2006**, (1), 109-111.
77. A new method for synthesis of *S*-aryl-*O*-alkyl thiolcarbonates. Selenium-catalyzed reaction of alcohols with carbon monoxide and diaryl disulfides
Nishiyama, Yutaka; Maehira, Ken; Nakase, Junko; Sonoda, Noboru
Tetrahedron Letters **2005**, 46(43), 7415-7417.
76. A new method for the synthesis of organotellurium compounds by the use of reductive cleavage of the tellurium-tellurium bond with lanthanum metal
Nishiyama, Yutaka; Okada, Mitsuo; Nishino, Toshiki; Sonoda, Noboru
Bulletin of the Chemical Society of Japan **2005**, 78(2), 341-343.
75. A Facile Method for the Synthesis of Thiocarbamates: Palladium-Catalyzed Reaction of Disulfide, Amine, and Carbon Monoxide
Nishiyama, Yutaka; Kawamatsu, Hiroaki; Sonoda, Noboru
Journal of Organic Chemistry **2005**, 70(7), 2551-2554.
74. Reductive debromination of 1,2-bis(bromomethyl)arenes using tetrakis(dimethylamino)ethylene (TDAE)
Nishiyama, Yutaka; Kawabata, Hiroshi; Kobayashi, Akihiro; Nishino, Toshiki; Sonoda, Noboru
Tetrahedron Letters **2005**, 46(5), 867-869.
73. Rhenium complex-catalyzed allylation of aldehydes with allyltributylstannane
Nishiyama, Yutaka; Kakushou, Fujio; Sonoda, Noboru
Tetrahedron Letters **2005**, 46(5), 787-789.
72. A new method for the synthesis of 1,3-oxathiolan-2-ones by the reaction of epoxides with sulfur and carbon monoxide
Nishiyama, Yutaka; Katahira, Chisato; Sonoda, Noboru
Tetrahedron Letters **2004**, 45(46), 8539-8540.
71. Synthesis and characterization of triphenylene-dione half-disc mesogens
Paraskos, Alexander J.; Nishiyama, Yutaka; Swager, Timothy M.
Molecular Crystals and Liquid Crystals **2004**, 411, 1405-1417.

70. A new synthetic method of 1,4-dihydro-2H-3,1-benzoxazin-2-ones. selenium-catalyzed reductive carbonylation of aromatic nitro compounds with carbon monoxide
Nishiyama, Yutaka; Naitoh, Yoshitaka; Sonoda, Noboru
Synlett **2004**, (5), 886-888.
69. A facile method for synthesis of alkyl phenyl selenides. The reaction of diphenyl diselenide with oxygen-containing compounds using La/Me₃SiCl/cat.I₂/cat.CuI system
Nishino, Toshiki; Nishiyama, Yutaka; Sonoda, Noboru
Chemistry Letters **2003**, 32(10), 918-919.
68. Dehalogenation of *o*-dihalo-substituted arenes and α,α' -dihalo-substituted *o*-xylenes with lanthanum metal
Nishiyama, Yutaka; Kawabata, Hiroshi; Nishino, Toshiki; Hashimoto, Kouji; Sonoda, Noboru
Tetrahedron **2003**, 59(34), 6609-6614.
67. Phenyl Tributylstannyl Selenide as a Promising Reagent for Introduction of the Phenylseleno Group
Nishiyama, Yutaka; Kawamatsu, Hiroaki; Funato, Saori; Tokunaga, Keiji; Sonoda, Noboru
Journal of Organic Chemistry **2003**, 68(9), 3599-3602.
66. Deoxygenative dimerization of benzylic and allylic alcohols, and their ethers and esters using lanthanum metal and chlorotrimethylsilane in the presence of a catalytic amount of iodine and copper(I) iodide
Nishino, Toshiki; Nishiyama, Yutaka; Sonoda, Noboru
Bulletin of the Chemical Society of Japan **2003**, 76(3), 635-641.
65. One-Pot Synthesis of Unsymmetrical Diorganyl Selenides: Reaction of Diphenyl Diselenide with Alkyl Halides in the Presence of Lanthanum Metal
Nishino, Toshiki; Okada, Mitsuo; Kuroki, Takamasa; Watanabe, Toshihisa; Nishiyama, Yutaka; Sonoda, Noboru
Journal of Organic Chemistry **2002**, 67(24), 8696-8698.
64. Reaction of Carbonyl Compounds with Trialkylsilyl Phenylselenide and Tributylstannyl Hydride under Radical Conditions
Nishiyama, Yutaka; Kajimoto, Hiroyuki; Kotani, Kazuya; Nishida, Takuma; Sonoda, Noboru
Journal of Organic Chemistry **2002**, 67(16), 5696-5700.
63. Reaction of 1,2-dihalogen substituted arenes with lanthanum metal: a new generation method of benzyne
Kawabata, Hiroshi; Nishino, Toshiki; Nishiyama, Yutaka; Sonoda, Noboru
Tetrahedron Letters **2002**, 43(28), 4911-4913.
62. Lanthanum metal-assisted deoxygenative coupling of alcohols
Nishino, Toshiki; Nishiyama, Yutaka; Sonoda, Noboru
Tetrahedron Letters **2002**, 43(20), 3689-3691.
61. Reductive dimerization and reduction of imines using lanthanum metal
Nishino, Toshiki; Nishiyama, Yutaka; Sonoda, Noboru
Heteroatom Chemistry **2002**, 13(2), 131-135.
60. Synthesis of 3,4-dihydroquinazolin-4-one: selenium-catalyzed reductive *N*-heterocyclization of *N*-(2-nitrobenzoyl)amides with carbon monoxide
Nishiyama, Yutaka; Hirose, Masaharu; Kitagaito, Wataru; Sonoda, Noboru
Tetrahedron Letters **2002**, 43(10), 1855-1858.

59. Tributylstannyl Radical-Catalyzed Reaction of 1,2,3-Selenadiazoles with Olefins or Dienes
Nishiyama, Yutaka; Hada, Yasunobu; Anjiki, Masahiro; Miyake, Kazuya; Hanita, Sakiko; Sonoda, Noboru
Journal of Organic Chemistry **2002**, 67(5), 1520-1525.
58. Synthesis of selenol esters: palladium-catalyzed coupling of phenyl tributylstannyl selenide with aryl iodides and carbon monoxide
Nishiyama, Yutaka; Tokunaga, Keiji; Kawamatsu, Hiroaki; Sonoda, Noboru
Tetrahedron Letters **2002**, 43(8), 1507-1509.
57. Reduction of Organic Halides with Lanthanum Metal: A Novel Method for Generation of Alkyl Radicals
Nishino, Toshiki; Watanabe, Toshihisa; Okada, Mitsuo; Nishiyama, Yutaka; Sonoda, Noboru
Journal of Organic Chemistry **2002**, 67(3), 966-969.
56. Hydrosilylation of Carbonyl Compounds Using a PhSeSiMe₃/Bu₃SnH/AIBN System
Nishiyama, Yutaka; Kajimoto, Hiroyuki; Kotani, Kazuya; Sonoda, Noboru
Organic Letters **2001**, 3(20), 3087-3089.
55. Rhenium Complexes-Catalyzed Alkylation of Arenes with Alkyl Halides
Nishiyama, Yutaka; Kakushou, Fujio; Sonoda, Noboru
Bulletin of the Chemical Society of Japan **2000**, 73(12), 2779-2782.
54. The reaction of 1,2,3-selenadiazole with olefins
Nishiyama, Yutaka; Hada, Yasunobu; Iwase, Kuniko; Sonoda, Noboru
Journal of Organometallic Chemistry **2000**, 611(1-2), 488-493.
53. Reductive coupling of carbonyl compounds using lanthanum metal
Nishino, Toshiki; Nishiyama, Yutaka; Sonoda, Noboru
Heteroatom Chemistry **2000**, 11(1), 81-85.
52. New Synthetic Method of Diorganyl Selenides: Palladium-Catalyzed Reaction of PhSeSnBu₃ with Aryl and Alkyl Halides
Nishiyama, Yutaka; Tokunaga, Keiji; Sonoda, Noboru
Organic Letters **1999**, 1(11), 1725-1727.
51. Catalytic use of organostannyl radical: the reaction of 1,2,3-selenadiazole with olefins in the presence of a catalytic amount of tributyltin hydride
Nishiyama, Yutaka; Hada, Yasunobu; Anjiki, Masahiro; Hanita, Sakiko; Sonoda, Noboru
Tetrahedron Letters **1999**, 40(34), 6293-6296.
50. Synthesis of indoles: selenium-catalyzed reductive *N*-heterocyclization of 2-nitrostyrenes with carbon monoxide
Nishiyama, Yutaka; Maema, Ryo; Ohno, Kengou; Hirose, Masaharu; Sonoda, Noboru
Tetrahedron Letters **1999**, 40(31), 5717-5720.
49. Regioselective alkylation of 1-alkoxy-3-phenylseleno-1-alkenes
Nishiyama, Yutaka; Kishimoto, Yoshihiro; Itoh, Kazuyoshi; Sonoda, Noboru
Synlett **1999**, (5), 611-613.
48. Selective synthesis of 1-alkoxy-3-phenylseleno-1-alkenes and 3-phenylselenoalkanes by the reaction of diisobutylaluminum phenylselenolate with α,β -unsaturated acetals
Nishiyama, Yutaka; Asano, Tomoyuki; Kishimoto, Yoshihiro; Itoh, Kazuyoshi; Ishii, Yasutaka
Tetrahedron Letters **1998**, 39(47), 8685-8686.

47. Stereoselective reductive coupling of carbonyl compounds by a Sm/Et₂Al system
Nishiyama, Yutaka; Shinomiya, Eiji; Kimura, Shouji; Itoh, Kazuyoshi; Sonoda, Noboru
Tetrahedron Letters **1998**, 39(22), 3705-3708.
46. Activation of Sn-Se bond: regioselective ring opening reaction of epoxides with tributylstannyl phenylselenolate in the presence of a Lewis acid
Nishiyama, Yutaka; Ohashi, Hironori; Itoh, Kazuyoshi; Sonoda, Noboru
Chemistry Letters **1998**, (2), 159-160.
45. Stereoselective Synthesis of 2,2,5-Trisubstituted Tetrahydrofurans *via* the Lewis Acid Assisted Reaction of Cyclic Hemiketals with Nucleophiles
Nishiyama, Yutaka; Katoh, Takeshi; Deguchi, Katsuya; Morimoto, Yorikazu; Itoh, Kazuyoshi
Journal of Organic Chemistry **1997**, 62(26), 9339-9341.
44. Stereoselective Reduction of β -Hydroxy Ketones with Aldehydes *via* Tishchenko Reactions Catalyzed by Zirconocene Complexes
Umekawa, Yuuji; Sakaguchi, Satoshi; Nishiyama, Yutaka; Ishii, Yasutaka
Journal of Organic Chemistry **1997**, 62(10), 3409-3412.
43. Stereoselective synthesis of *trans*-2,5-disubstituted tetrahydrofurans *via* the Lewis acid mediated reduction of cyclic hemiketals with triphenylsilane
Nishiyama, Yutaka; Tujino, Takashi; Yamano, Tadamichi; Hayashishita, Masayoshi; Itoh, Kazuyoshi
Chemistry Letters **1997**, (2), 165-166.
42. Molybdovanadophosphate (NPMoV)/hydroquinone/O₂ system as an efficient reoxidation system in palladium-catalyzed oxidation of alkenes
Yokota, Takahiro; Fujibayashi, Shinya; Nishiyama, Yutaka; Sakaguchi, Satoshi; Ishii, Yasutaka
Journal of Molecular Catalysis A: Chemical **1996**, 114(1-3), 113-122.
41. Aldol type condensation of imines catalyzed by samarium complexes
Shiraishi, Hiroyuki; Kawasaki, Yumi; Sakaguchi, Satoshi; Nishiyama, Yutaka; Ishii, Yasutaka
Tetrahedron Letters **1996**, 37(40), 7291-7294.
40. An efficient aerobic oxidation of various organic compounds catalyzed by mixed addenda heteropolyoxometalates containing molybdenum and vanadium
Fujibayashi, Shin-ya; Nakayama, Kouichi; Hamamoto, Masatoshi; Sakaguchi, Satoshi; Nishiyama, Yutaka; Ishii, Yasutaka
Journal of Molecular Catalysis A: Chemical **1996**, 110(2), 105-117.
39. Selective Oxidation of Monoterpenes with Hydrogen Peroxide Catalyzed by Peroxotungstophosphate (PCWP)
Sakaguchi, Satoshi; Nishiyama, Yutaka; Ishii, Yasutaka
Journal of Organic Chemistry **1996**, 61(16), 5307-5311.
38. Alkane Oxidation with Molecular Oxygen Using a New Efficient Catalytic System: *N*-Hydroxyphthalimide (NHPI) Combined with Co(acac)_{*n*} (*n* = 2 or 3)
Ishii, Yasutaka; Iwahama, Takahiro; Sakaguchi, Satoshi; Nakayama, Kouichi; Nishiyama, Yutaka
Journal of Organic Chemistry **1996**, 61(14), 4520-4526.
37. Oxidation of organic substrates with molecular oxygen catalyzed by vanadomolybdophosphate (NPV₆Mo₆) combined with *N*-hydroxyphthalimide (NHPI)
Sakaguchi, Satoshi; Nakayama, Koichi; Nishiyama, Yutaka; Ishii, Yasutaka
Technology Reports of the Kansai University **1996**, 38, 123-131.

36. Reduction of aromatic nitro compounds by the Sm/R_nSiCl_{4-n}/NaI system: control of reducing ability of low valent samarium species
Nishiyama, Yutaka; Hatano, Tadashi; Emoto, Tetsuya; Muromachi, Akifumi; Ishii, Yasutaka
Technology Reports of the Kansai University **1996**, *38*, 113-121.
35. Acylation of Alcohols and Amines with Vinyl Acetates Catalyzed by Cp₂Sm(thf)₂
Ishii, Yasutaka; Takeno, Mitsuhiro; Kawasaki, Yumi; Muromachi, Akifumi; Nishiyama, Yutaka; Sakaguchi, Satoshi
Journal of Organic Chemistry **1996**, *61*(9), 3088-3092.
34. Oxidative esterification of primary alcohols by NaBrO₃/NaHSO₃ reagent in aqueous medium
Takase, Kiyoshi; Masuda, Haruhoshi; Kai, Osamu; Nishiyama, Yutaka; Sakaguchi, Satoshi; Ishii, Yasutaka
Chemistry Letters **1995**, (10), 871-872.
33. Aerobic oxidation of alcohols to carbonyl compounds catalyzed by *N*-hydroxyphthalimide (NHPI) combined with Co(acac)₃
Iwahama, Takahiro; Sakaguchi, Satoshi; Nishiyama, Yutaka; Ishii, Yasutaka
Tetrahedron Letters **1995**, *36*(38), 6923-6926.
32. A New Coupling Reaction of Vinyl Esters with Aldehydes Catalyzed by Organosamarium Compounds
Takeno, Mitsuhiro; Kikuchi, Shirou; Morita, Ken-Ichi; Nishiyama, Yutaka; Ishii, Yasutaka
Journal of Organic Chemistry **1995**, *60*(16), 4974-4975.
31. Novel Catalysis by *N*-Hydroxyphthalimide in the Oxidation of Organic Substrates by Molecular Oxygen
Ishii, Yasutaka; Nakayama, Kouichi; Takeno, Mitsuhiro; Sakaguchi, Satoshi; Iwahama, Takahiro; Nishiyama, Yutaka
Journal of Organic Chemistry **1995**, *60*(13), 3934-3935.
30. A direct conversion of vic-diols into 1,2-diketones with aqueous hydrogen peroxide catalyzed by peroxotungstophosphate (PCWP)
Iwahama, Takahiro; Sakaguchi, Satoshi; Nishiyama, Yutaka; Ishii, Yasutaka
Tetrahedron Letters **1995**, *36*(9), 1523-1526.
29. New Generation Method for a Samarium(II) Equivalent: Me₃SiX (X = Br and I)/Sm-Assisted Intermolecular Carbon-Carbon Bond Forming Reactions of Carbonyl Compounds
Akane, Noriyuki; Hatano, Tadashi; Kusui, Hiroko; Nishiyama, Yutaka; Ishii, Yasutaka
Journal of Organic Chemistry **1994**, *59*(25), 7902-7907.
28. A New Synthetic Method of Preparing Iodohydrin and Bromohydrin Derivatives through in situ Generation of Hypohalous Acids from H₅IO₆ and NaBrO₃ in the Presence of NaHSO₃
Masuda, Haruyoshi; Takase, Kiyoshi; Nishio, Masahiro; Hasegawa, Akira; Nishiyama, Yutaka; Ishii, Yasutaka
Journal of Organic Chemistry **1994**, *59*(19), 5550-5555.
27. Oxidation of Allenes and Alkynes with Hydrogen Peroxide Catalyzed by Cetylpyridinium Peroxotungstophosphate (PCWP)
Sakaguchi, Satoshi; Watase, Seiji; Katayama, Yuji; Sakata, Yasuyuki; Nishiyama, Yutaka; Ishii, Yasutaka
Journal of Organic Chemistry **1994**, *59*(19), 5681-5686.
26. Oxidation of phenols and hydroquinones by dioxygen catalyzed by mixed addenda heteropolyoxometalate on active carbon (NPV₆Mo₆/C)
Fujibayashi, Shinya; Nakayama, Kouichi; Nishiyama, Yutaka; Ishii, Yasutaka
Chemistry Letters **1994**, (7), 1345-1348.

25. Baeyer-Villiger Oxidation of Ketones Using Molecular Oxygen and Benzaldehyde in the Absence of Metal Catalysts
Kaneda, Kiyotomi; Ueno, Shinji; Imanaka, Toshinobu; Shimotsuma, Emi; Nishiyama, Yutaka; Ishii, Yasutaka
Journal of Organic Chemistry **1994**, 59(11), 2915-2917.
24. Oxidation of benzylic derivatives with dioxygen catalyzed by mixed addenda metallophosphate containing vanadium and molybdenum
Nakayama, Kouichi; Hamamoto, Masatoshi; Nishiyama, Yutaka; Ishii, Yasutaka
Chemistry Letters **1993**, (10), 1699-1702.
23. Oxidation of organic substrates by a molecular oxygen/aldehyde/heteropolyoxometalate system
Hamamoto, Masatoshi; Nakayama, Kouichi; Nishiyama, Yutaka; Ishii, Yasutaka
Journal of Organic Chemistry **1993**, 58(23), 6421-6425.
22. Selectivity in oxidation of sulfides with hydrogen peroxide by $[\pi\text{-C}_5\text{H}_5\text{N}^+(\text{CH}_2)_{15}\text{CH}_3]_3\text{PM}_{12}\text{O}_{40}^{3-}$ and $[\pi\text{-C}_5\text{H}_5\text{N}^+(\text{CH}_2)_{15}\text{CH}_3]_3\{\text{PO}_4[\text{M}(\text{O})(\text{O}_2)_2]_4\}^{3-}$ (M = Mo or W)
Ishii, Yasutaka; Tanaka, Hiroyuki; Nishiyama, Yutaka
Chemistry Letters **1994**, (1), 1-4.
21. Selective dimerization of aldehydes to esters catalyzed by zirconocene and hafnocene complexes
Morita, Kenichi; Nishiyama, Yutaka; Ishii, Yasutaka
Organometallics **1993**, 12(9), 3748-3752.
20. Intermolecular radical addition of 1-alkoxyalkyl radicals to vinyl derivatives
Nishiyama, Yutaka; Yamamoto, Hisayuki; Nakata, Shinji; Ishii, Yasutaka
Chemistry Letters **1993**, (5), 841-844.
19. Oxidation of aromatic amines with hydrogen peroxide catalyzed by cetylpyridinium heteropolyoxometalates
Sakae, Sigeki; Tsubakino, Takashi; Nishiyama, Yutaka; Ishii, Yasutaka
Journal of Organic Chemistry **1993**, 58(14), 3633-3638.
18. Direct synthesis of polysubstituted cyclopentenones from ketones and aldehydes catalyzed by zirconium compounds
Yuki, Tsuyoshi; Hashimoto, Motochika; Nishiyama, Yutaka; Ishii, Yasutaka
Journal of Organic Chemistry **1993**, 58(16), 4497-4499.
17. Generation and reaction of samarium(II) iodide equivalent from samarium and chlorotrimethylsilane/sodium iodide system in acetonitrile
Akane, Noriyuki; Kanagawa, Yoshinori; Nishiyama, Yutaka; Ishii, Yasutaka
Chemistry Letters **1992**, (12), 2431-2434.
16. A convenient synthesis of epoxides from olefins using molecular oxygen in the absence of metal catalysts
Kaneda, Kiyotomi; Haruna, Shigeru; Imanaka, Toshinobu; Hamamoto, Masatoshi; Nishiyama, Yutaka; Ishii, Yasutaka
Tetrahedron Letters **1992**, 33(45), 6827-6830.
15. Selenium-assisted reduction of α - and β -diketones with carbon monoxide and water
Nishiyama, Yutaka; Inoue, Jun; Teranishi, Kazuyo; Moriwaki, Masami; Hamanaka, Sawako
Tetrahedron Letters **1992** 33(42), 6347-6350.

14. α -Selective coupling reactions of allylic alcohols with aldehydes using trimethylsilyl chloride/sodium iodide/water-tin
Kanagawa, Yoshinori; Nishiyama, Yutaka; Ishii, Yasutaka
Journal of Organic Chemistry **1992**, 57(25), 6988-6991.
13. Synthetic application of selenostannanes: selenoalkoxylation of acetals
Nishiyama, Yutaka; Aoyama, Satoshi; Hamanaka, Sawako
Phosphorus, Sulfur and Silicon and the Related Elements **1992**, 67(1-4), 267-270.
12. Oxidation of aliphatic and aromatic amines with hydrogen peroxide catalyzed by peroxoheteropoly oxometalates
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Chemistry Letters **1992**, (2), 289-292.
11. Synthesis of monoselenoacetals using diisobutylaluminum benzeneselenolate
Nishiyama, Yutaka; Nakata, Shinji; Hamanaka, Sawako
Chemistry Letters **1991**, (10), 1775-1776.
10. New agents for the selective reduction of the carbon-carbon double bond of α,β -unsaturated carbonyl compounds
Nishiyama, Yutaka; Yoshida, Masanori; Ohkawa, Shigeo; Hamanaka, Sawako
Journal of Organic Chemistry **1991**, 56(23), 6720-6722.
9. Synthesis utilizing reducing ability of carbon monoxide: a new method for selective synthesis of diorgano selenides and diselenides using selenium-carbon monoxide-water reaction system
Nishiyama, Yutaka; Katsuura, Akio; Negoro, Atsuhito; Hamanaka, Sawako; Miyoshi, Noritaka; Yamana, Yoshihiro; Ogawa, Akiya; Sonoda, Noboru
Journal of Organic Chemistry **1991**, 56(12), 3776-3780.
8. Selenium-catalyzed debromination of *vic*-dibromoalkanes and α -bromo ketones with carbon monoxide and water
Nishiyama, Yutaka; Katsuen, Susumu; Jounen, Hiroshi; Hamanaka, Sawako; Ogawa, Akiya; Sonoda, Noboru
Heteroatom Chemistry **1990**, 1(6), 467-474.
7. Reactions of diphenyl alkanes with carbon monoxide in the presence of aluminum chloride-hydrochloric acid
Okada, Takashi; Namba, Osamu; Kubo, Chikako; Nishiyama, Yutaka; Hamanaka, Sawako; Ogawa, Masaya
Chemistry Express **1990**, 5(5), 293-296.
6. Bis(acyl) diselenides as convenient acylating reagents
Nishiyama, Yutaka; Katsuura, Akio; Okamoto, Youji; Hamanaka, Sawako
Chemistry Letters **1989**, (10), 1825-1826.
5. Selective reduction of α,β -unsaturated carbonyl compounds with carbon monoxide and water assisted by selenium
Nishiyama, Yutaka; Makino, Yasuhiko; Hamanaka, Sawako; Ogawa, Akiya; Sonoda, Noboru
Bulletin of the Chemical Society of Japan **1989**, 62(5), 1682-1684.
4. Selenium, carbon monoxide, and water as a new reduction system: reductive cleavage of disulfides and diselenides to thiols and selenols
Ogawa, Akiya; Nishiyama, Yutaka; Kambe, Nobuaki; Murai, Shinji; Sonoda, Noboru
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3. Reductive thiolation of aromatic ketones and aldehyde with sulfur, carbon monoxide and water leading to thiols

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Nippon Kagaku Kaishi **1987**, (7), 1502-1504.

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1. Reductive selenation of aliphatic ketones and aldehydes by selenium, carbon monoxide, and water leading to symmetrical diselenides

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4. Utilization of phenyl trialkylstannyl selenide as a promising reagent for introduction of the phenylseleno group

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3. Development of new synthetic reactions using samarium compounds as catalysts

Nishiyama, Yutaka; Sakaguchi, Satoshi; Ishii, Yasutaka
Yuki Gosei Kagaku Kyokaishi **2000**, 58(2), 129-137.

2. Reductions with selenium reagents

Nishiyama, Yutaka; Sonoda, Noboru, Edited by Back, Thomas G
Organoselenium Chemistry **1999**, 113-129.

1. Development of new synthetic reactions using samarium compounds as catalysts

Ishii, Yasutaka; Nishiyama, Yutaka; Kawasaki, Yumi; Tashiro, Daisuke; Shiraishi, Hiroyuki; Sakaguchi, Satoshi

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Others

2. New generation method of carbon radicals and unstable intermediates by using lanthanum metal

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Act. Dioxygen Homogeneous Catal. Oxid., [Proc. Int. Symp.], 5th, **1993**, 473.