

## *List of Publications (Manabu Kuroboshi)*

### **Papers**

80. **Electroreductive Generation of Recyclable Organic Reductant from *N,N'*-Dioctyl-4,4'-bipyridinium and Pd-Catalyzed Reductive Coupling of Aryl Halides.**  
Kuroboshi, M.; Kobayashi, R.; Nakagawa, T.; Tanaka, H. *Synlett* **2009**, 85–88.
79. **Recyclable Electron Transfer System: Electroreduction of Viologen in Ionic Liquids and Pd-catalyzed Reductive Coupling of Aryl Halides.**  
Kuroboshi, M.; Kuwano, A.; Tanaka, H. *Electrochemistry* **2008**, *76*, 862–864.
78. **Electrooxidative Desulfurization/Chlorination. A Facile Synthesis of 4-Chloro-2-azetidinones, a Potent Intermediate for Carbapenems.**  
Kuroboshi, M.; Miyada, M.; Tateyama, S.; Tanaka, H.  
*Heterocycles* **2008**, *76*, 1471–1484.
77. **Electroorganic Synthesis in Oil-in-Water Nanoemulsion: TEMPO-Mediated Electrooxidation of Amphiphilic Alcohols in Water.**  
Yoshida, T.; Kuroboshi, M.; Oshitani, J.; Goto, K.; Tanaka, H.  
*Synlett* **2007**, 2691–2694.
76. **Diastereoselective Synthesis of 6-Bromo-6-(1-hydroxyethyl)penicillanate by Cross-Coupling of 6,6-Dibromopenicillanate and Acetaldehyde promoted with Grignard Reagents: Role of Amine Ligands.**  
Kuroboshi, M.; Mesaki, K.; Tateyama, S.; Tanaka, H.  
*Heterocycles* **2007**, *73*, 877–882.
75. **Electrooxidative *N*-Halogenation of 2-Azetidinone Derivatives.**  
Tanaka, H.; Arai, S.; Ishitobi, Y.; Kuroboshi, M.; Torii, S.  
*Electrochemistry* **2006**, *74*, 656–658.
74. **Electrooxidation of alcohols in an *N*-oxyl-immobilized rigid network polymer particles/water disperse system.**  
Kubota, J.; Ido, T.; Kuroboshi, M.; Tanaka, H.; Uchida, T.; Shimamura, K.  
*Tetrahedron* **2006**, *62*, 4769–4773.
73. **Electrooxidation of alcohols in an *N*-oxyl-immobilized poly(ethylene-co-acrylic acid)/water disperse system.**  
Tanaka, H.; Kubota, J.; Miyahara, S.; Kuroboshi, M.  
*Bull. Chem. Soc. Jpn.* **2005**, *78*, 1677–1684.
72. **Electrooxidative Glycosylation through C-S Bond Cleavage of 1-Arylthio-2,3-dideoxyglycosides. Synthesis of 2',3'-Dideoxynucleosides.**  
Mitsudo, K.; Kawaguchi, T.; Miyahara, S.; Matsuda, W.; Kuroboshi, M.; Tanaka, H.  
*Org. Lett.* **2005**, *7*, 4649–4652.
71. **Reductive coupling of aryl bromides using cat. Pd/TDAE system in ionic liquids.**  
Kuroboshi, M.; Takeda, T.; Motoki, R.; Tanaka, H.  
*Chem. Lett.* **2005**, *34*, 530–531.
70. ***N*-Oxyl-mediated electrooxidation in ionic liquid. A prominent approach to totally closed system.**  
Kuroboshi, M.; Fujisawa, J.; Tanaka, H.  
*Electrochemistry* **2004**, *72*, 846–848.
69. **The oxidation of alcohols in *N*-Oxyl-immobilized silica gel/aqueous NaOCl disperse systems. A prominent access to a column-flow system.**  
Tanaka, H.; Chou, J.; Mine, M.; Kuroboshi, M.  
*Bull. Chem. Soc. Jpn.* **2004**, *77*, 1745–1755.

68. **Electrooxidation of alcohols in a disperse system with *N*-oxyl-immobilized polyethylene particles as disperse phase and aqueous NaHCO<sub>3</sub>/NaBr as disperse media: A totally closed electrolysis system.**  
Tanaka, H.; Kubota, J.; Itogawa, S.; Ido, T.; Kuroboshi, M.; Shimamura, K.; Uchida, T.  
*Synlett* **2003**, 951–954.
67. **Palladium-Catalyzed Tetrakis(dimethylamino)ethylene-Promoted Reductive Coupling of Aryl Halides.**  
Kuroboshi, M.; Waki, Y.; Tanaka, H.  
*J. Org. Chem.* **2003**, *68*, 3938–3942.
66. **Tetrakis(dimethylamino)ethylene (TDAE)-Pd promoted reductive homo-coupling of aryl halides.**  
Kuroboshi, M.; Waki, Y.; Tanaka, H.  
*Synlett* **2002**, 637–639.
65. **Electrochemical asymmetric epoxidation of olefins by using an optically active Mn-salen complex.**  
Tanaka, H.; Kuroboshi, M.; Takeda, H.; Kanda, H.; Torii, S.  
*J. Electroanal. Chem.* **2001**, *507*, 75–81.
64. **Substitution vs. addition. Regioselective electro-bromination of benzofuran.**  
Tanaka, H.; Kawakami, Y.; Kuroboshi, M.; Torii, S.  
*Heterocycles* **2001**, *54*, 825–831.
63. **An aqueous silica gel disperse electrolysis system. *N*-Oxyl-mediated electrooxidation of alcohols.**  
Tanaka, H.; Kawakami, Y.; Goto, K.; Kuroboshi, M.  
*Tetrahedron Lett.* **2001**, *42*, 445–448.
62. **Electro-oxidative kinetic resolution of *sec*-alcohols by using an optically active *N*-oxyl mediator.**  
Kuroboshi, M.; Yoshihisa, H.; Cortona, M. N.; Kawakami, Y.; Gao, Z.; Tanaka, H.  
*Tetrahedron Lett.* **2000**, *41*, 8131–8135.
61. **A convenient synthesis of trifluoromethyl ethers by oxidative desulfurization-fluorination of dithiocarbonates.**  
Kanie, K.; Tanaka, Yoichiro; Suzuki, Kazundo; Kuroboshi, Manabu; Hiyama, Tamejiro.  
*Bull. Chem. Soc. Jpn.* **2000**, *73*, 471–484.
60. **Tetrakis(dimethylamino)ethylene (TDAE) as a potent organic electron source: alkenylation of aldehydes using an Ni/Cr/TDAE redox system.**  
Kuroboshi, M.; Tanaka, M.; Kishimoto, S.; Goto, K.; Mochizuki, M.; Tanaka, H.  
*Tetrahedron Lett.* **2000**, *41*, 81–84.
59. **Tetrakis(dimethylamino)ethylene (TDAE) as a potent electron source for Cr-mediated allylation of aldehydes and ketones.**  
Kuroboshi, M.; Goto, K.; Mochizuki, M.; Tanaka, H.  
*Synlett* **1999**, *12*, 1930–1932.
58. **Barbier-type allylation of carbonyl derivatives by use of aluminum as an electron pool. Double allylation of carboxylic esters.**  
Tanaka, H.; Nakahata, S.; Watanabe, H.; Zhao, J.; Kuroboshi, M.; Torii, S.  
*Inorg. Chim. Acta* **1999**, *296*, 204–207.
57. **Generation and reaction of copper(I) hydride in the copper(I) chloride-tributyltin hydride-NMP system: synthesis of 3-norcephalosporin.**  
Tanaka, H.; Yamaguchi, Y.; Sumida, S.; Kuroboshi, M.; Mochizuki, M.; Torii, S.  
*J. Chem. Soc., Perkin Trans. 1* **1999**, 3463–3468.
56. **Syntheses and Properties of Novel Liquid Crystals Containing a Trifluoromethylamino Group.**

Kanie, K.; Mizuno, K.; Kuroboshi, M.; Takehara, S.; Hiyama, T.  
*Bull. Chem. Soc. Jpn.* **1999**, *72*, 2523-2535.

55. **Synthesis and electro-optical properties of 3-substituted phenyl trifluoromethyl ethers.**  
Kanie, K.; Kuroboshi, M.; Takehara, S.; Hiyama, T.  
*J. Fluorine Chem.* **1999**, *97*, 201-206.
54. **A facile synthesis of trifluoromethyl- and 3,3,3-trifluoropropenyl-substituted aromatic compounds by the oxidative desulfurization-fluorination of the corresponding carbodithioates.**  
Furuta, S.; Kuroboshi, M.; Hiyama, T.  
*Bull. Chem. Soc. Jpn.* **1999**, *72*, 805-819.
53. **Ni/Cr/Al multi-metal redox-mediated alkenylation of aldehydes.**  
Kuroboshi, M.; Tanaka, M.; Kishimoto, S.; Goto, K.; Tanaka, H.; Torii, S.  
*Tetrahedron Lett.* **1999**, *40*, 2785-2788.
52. **Electrochemical regeneration of chromium(II). Alkenylation of carbonyl compounds.**  
Kuroboshi, M.; Tanaka, M.; Kishimoto, S.; Tanaka, H.; Torii, S.  
*Synlett* **1999**, 69-70.
51. **Generation and Carbonyl Addition Reactions of Dibromofluoromethyl lithium Derived from Tribromofluoromethane as Applied to the Stereoselective Synthesis of Fluoro Olefins and 2-Bromo-2-fluoro-1,3-alkanediols.**  
Shimizu, M.; Yamada, N.; Takebe, Y.; Hata, T.; Kuroboshi, M.; Hiyama, T.  
*Bull. Chem. Soc. Jpn.* **1998**, *71*, 2903-2921.
50. **Facile Synthesis of  $\alpha$ -Fluoroalkyl Sulfides under Oxidative Desulfurization-Fluorination Conditions.**  
Furuta, S.; Kuroboshi, M.; Hiyama, T.  
*Bull. Chem. Soc. Jpn.* **1998**, *71*, 2687-2694.
49. **A facile synthesis of trifluoromethylamines by oxidative desulfurization-fluorination of dithiocarbamates.**  
Kanie, K.; Mizuno, K.; Kuroboshi, M.; Hiyama, T.  
*Bull. Chem. Soc. Jpn.* **1998**, *71*, 1973-1991.
48. **Fluorination of orthothioesters through oxidative desulfurization-fluorination.**  
Furuta, S.; Kuroboshi, M.; Hiyama, T.  
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47. **Synthesis of 5-substituted 4,4-disubstituted 2-cyclohexen-1-ones by electro-generated base promoted Michael addition of 4,4-disubstituted 2,5-cyclohexadien-1-ones.**  
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46. **Synthesis of terminal-biradical compounds consisting of two N-oxyl groups connected by conjugated  $\pi$ -systems.**  
Torii, S.; Hase, T.; Kuroboshi, M.; Amatore, C.; Jutand, A.; Kawafuchi, H.  
*Tetrahedron Lett.* **1997**, *38*, 7391-7394.
45. **Oxidative desulfurization-fluorination of alkanol xanthates. Control of the reaction pathway to fluorination or trifluoromethoxylation.**  
Kanie, K.; Tanaka, Y.; Shimizu, M.; Kuroboshi, M.; Hiyama, T.  
*Chem. Commun.* **1997**, 309-310.
44. **Diastereoselective generation of lithium carbenoid reagent and its reaction with electrophiles.**  
Shimizu, M.; Takebe, Y.; Kuroboshi, M.; Hiyama, T.  
*Tetrahedron Lett.* **1996**, *37*, 7387-7390.
43. **Synthesis of 5-substituted pyrimidine nucleosides through a palladium-catalyzed**

**cross-coupling of alkylhalosilanes.**

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*Heterocycles* **1996**, *42*, 375–384.

42. **Fluoro-Pummerer rearrangement under oxidative desulfurization fluorination conditions. Facile synthesis of oligofluoroalkyl sulfides.**  
Furuta, S.; Kuroboshi, M.; Hiyama, T.  
*Tetrahedron Lett.* **1995**, *36*, 8243–8246.
41. **Generation and carbonyl addition of dibromofluoromethylithium.**  
Kuroboshi, M.; Yamada, N.; Takebe, Y.; Hiyama, T.  
*Synlett* **1995**, 987–988.
40. **Stereoselective synthesis of (E)-ArCF=CFR and (E)-ArCH=CFR from ArCH(OH)CFBr<sub>2</sub>.**  
Kuroboshi, M.; Yamada, N.; Takebe, Y.; Hiyama, T.  
*Tetrahedron Lett.* **1995**, *36*, 6271–6274.
39. **Catalytic asymmetric hydrosilylation of 1,3-dienes with difluoro(phenyl)silane.**  
Ohmura, H.; Matsuhashi, H.; Tanaka, M.; Kuroboshi, M.; Hiyama, T.; Hatanaka, Y.; Goda, K.  
*J. Organomet. Chem.* **1995**, *499*, 167–171.
38. **Oxidative desulfurization-fluorination of 1-substituted 2,2,2-tris(methylthio)ethanol induces difluorination under oxidation or rearrangement.**  
Kuroboshi, M.; Furuta, S.; Hiyama, T.  
*Tetrahedron Lett.* **1995**, *36*, 6121–6122.
37. **Synthesis and properties of new liquid crystals containing trifluoromethylamino group.**  
Kanie, K.; Mizuno, K.; Kuroboshi, M.; Takehara, S.; Hiyama, T.  
*Chem. Lett.* **1995**, 683–684.
36. **Halofluorination of alkenes using dilute hydrofluoric acid.**  
Kuroboshi, M.; Hiyama, T.  
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35. **Palladium-catalyzed cross-coupling of allylic carbonates with alkenylfluorosilanes in the absence of fluoride ion.**  
Matsuhashi, H.; Hatanaka, Y.; Kuroboshi, M.; Hiyama, T.  
*Tetrahedron Lett.* **1995**, *36*, 1539–1540.
34. **Synthesis of trifluoromethylamino-substituted pyridines and pyrimidines by oxidative desulfurization-fluorination.**  
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33. **Synthesis of perfluoroalkyl-substituted arenes by oxidative desulfurization-fluorination.**  
Kuroboshi, M.; Hiyama, T.  
*J. Fluorine Chem.* **1994**, *69*, 127–128.
32. **Asymmetric reduction of 2-fluoro-2-(trifluoromethyl)-3-hydroxy ketones with lithium aluminum hydride or diisobutylaluminum hydride. Highly stereoselective synthesis of 2-fluoro-2-(trifluoromethyl)-1,3-diols.**  
Ishihara, T.; Yamaguchi, K.; Kuroboshi, M.; Utimoto, K.  
*Tetrahedron Lett.* **1994**, *35*, 5263–5266.
31. **Palladium catalyzed cross-coupling reaction of functionalized alkyltrifluorosilanes with aryl halides.**  
Matsuhashi, H.; Kuroboshi, M.; Hatanaka, Y.; Hiyama, T.  
*Tetrahedron Lett.* **1994**, *35*, 6507–6510.
30. **A convenient synthesis of perfluoroalkylated amines by oxidative desulfurization-fluorination.**  
Kuroboshi, M.; Hiyama, T.  
*Tetrahedron Lett.* **1994**, *35*, 3983–3984.

29. **A facile synthesis of  $\alpha, \alpha$ -difluoroalkyl ethers and carbonyl fluoride acetals by oxidative desulfurization-fluorination.**  
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*Synlett* **1994**, 251–252.
28. **Optically active fluorocyclopropanes and trifluoromethylcyclopropanes as chiral dopants for ferroelectric liquid crystals.**  
Kusumoto, T.; Sato, K.; Kuroboshi, M.; Hiyama, T.; Takehara, S.; Osawa, M.; Nakamura, K.  
*Nippon Kagaku Kaishi* **1992**, 10, 1189–1196.
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Kuroboshi, M.; Hiyama, T.  
*Tetrahedron Lett.* **1992**, 33, 4177–4178.
25. **Oxidative desulfurization-fluorination of methyl arenedithiocarboxylates. A convenient synthesis of trifluoromethylated aromatic compounds.**  
Kuroboshi, M.; Hiyama, T.  
*Chem. Lett.* **1992**, 827–830.
24. **A facile synthesis of difluoromethylene compounds by oxidative fluorodesulfurization of dithioacetals using tetrabutylammonium dihydrogen trifluoride and N-halo compounds.**  
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*Synlett* **1991**, 909–910.
23. **Halofluorination of alkenes using tetrabutylammonium dihydrogen trifluoride.**  
Kuroboshi, Manabu; Hiyama, Tamejiro.  
*Tetrahedron Lett.* **1991**, 32, 1215–1218.
22. **Dilute hydrofluoric acid as a fluorinating agent: iodofluorination of olefins with dilute hydrofluoric acid, N-iodosuccinimide, and a phase transfer catalyst.**  
Kuroboshi, M.; Hiyama, T.  
*Synlett* **1991**, 185–186.
21. **Zinc-copper(I) chloride or -silver acetate promoted coupling reaction of 2-[(trimethylsilyl)methyl]-3-chloro-3,3-difluoropropene with carbonyl compounds. Highly efficient access to 2,2-difluoro homoallyl alcohols.**  
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*Tetrahedron Lett.* **1991**, 32, 1069–1072.
20. **A facile stereoselective synthesis of (E)-1-aryl-1,2,3,3,3-pentafluoropropenes and (E)-1-aryl-2-chloro-1,3,3,3-tetrafluoropropenes.**  
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19. **An efficient generation and selective aldol reaction of the boryl enolates of N,N-dialkyl-2,3,3,3-tetrafluoropropanamides.**  
Kuroboshi, M.; Ishihara, T.  
*Bull. Chem. Soc. Jpn.* **1990**, 63, 1191–1195.
18. **Diastereoselective reduction of  $\alpha, \alpha$ -difluoro  $\beta$ -hydroxy ketones to syn- and anti-2,2-difluoro-1,3-diols.**  
Kuroboshi, M.; Ishihara, T.  
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17. **An efficient and general method for the Reformatskii-type reaction of chlorodifluoromethyl ketones with carbonyl compounds giving  $\alpha, \alpha$ -difluoro- $\beta$ -hydroxy ketones.**  
Kuroboshi, Manabu; Ishihara, Takashi.  
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16. **Stereoselective generation and aldol reaction of tetrafluoropropanamide boron enolates leading to threo-2-fluoro-2-trifluoromethyl-3-hydroxy alkanamides.**  
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15. **An efficient generation of the aluminum enolates of 1H-perfluoroalkyl ketones from 1-substituted-1-perfluoroalkenyl phosphates and their aldol reaction with aldehydes.**  
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14. **Dephosphorylation of 1-substituted F-1-alkenyl phosphates with diisobutylaluminum hydride. A new highly efficient method for generating F-alkyl ketone aluminum(III) enolates.**  
Ishihara, T.; Yamaguchi, K.; Kuroboshi, M.  
*Chem. Lett.* **1989**, 1191–1194.
13. **A new tin(II) chloride-silver(I) acetate or -lead(II) bromide reagent for the addition of F-alkyl iodides to alkenes.**  
Ishihara, T.; Kuroboshi, M.  
*Synth. Commun.* **1989**, *19*, 1611–1617.
12. **Generation of perfluoroalkyl-substituted vinyl thionium ion intermediates and their reaction with silyl enol ethers. A new route to  $\delta$ -perfluoroalkyl- $\alpha, \beta, \gamma, \delta$ -unsaturated carbonyl compounds.**  
Ishihara, T.; Shinozaki, T.; Kuroboshi, M.  
*Chem. Lett.* **1989**, 1369–1372.
11. **Facile transformation of 1-substituted F-1-alkenyl phosphates into polyfluorinated 1,3-dienes by use of phosphonium ylides.**  
Okada, Y.; Kuroboshi, M.; Ishihara, T.  
*J. Fluorine Chem.* **1988**, *41*, 435–438.
10. **Reaction of fluorinated ketones with dialkyl phosphites. An efficient and selective transformation of aryl perfluoroalkyl ketones into dialkyl aryl(perfluoroalkyl)methyl phosphates.**  
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9. **Selective preparation of 1-substituted 2,2-difluoroethenyl phosphates or 1-hydroxyalkanephosphonates through the reaction of chlorodifluoromethyl ketones with dialkyl or diaryl phosphites.**  
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7. **Addition reactions of perfluoroalkyl iodides to carbon-carbon double bonds promoted by metallic tin(0)-metal salt systems.**  
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6. **Zinc-copper(I) chloride or -silver(I) acetate promoted aldol reaction of chlorodifluoromethyl ketones with carbonyl compounds. A general and effective route to  $\alpha, \alpha$ -difluoro- $\beta$ -hydroxy ketones.**  
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5. **A new efficient method for the generation of perfluoroalkyl ketone metal enolates by using copper(II) bromide-lithium aluminum hydride reagent and their aldol reaction with carbonyl compounds.**  
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4. **Highly effective dephosphorylation of F-1-alkenyl phosphates with copper halide-lithium aluminum hydride reagent: a new access to 1-hydril-F-alkyl ketones from F-alkyl ketones.**  
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3. **A convenient synthesis of fluorine-containing highly-substituted furans through new fluoride ion-catalyzed reaction of 1-alkyl-F-1-alkenyl phosphates.**  
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1. **New efficient palladium-catalyzed perfluoroalkylation of carbon-carbon multiple bonds with F-alkyl iodides. An expedient route to F-alkylated alkyl and alkenyl iodides.**  
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## Proceedings

- P5. **Asymmetric dihydroxylation of olefins in a chiral ligand-immobilized silica-gel/water disperse system.**  
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- P4. **Electrooxidation of alcohols in an n-oxyl immobilized rigid polymer particles disperse water system.**  
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*Proceedings - Electrochemical Society* **2003**, *2003–2012*, 65–68.
- P3. **N-Oxyl-mediated electrooxidation of alcohols in silica gel-aqueous NaOCl disperse systems (ex-cell method). A column-flow system.**  
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- P2. **Polymer supported N-oxyl mediated electrooxidation of alcohols in aqueous NaBr/NaHCO<sub>3</sub>.**  
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- P1. **Carbon-carbon bond formation using tetrakis(dimethylamino)ethylene (TDAE) as reductant/mediator.**  
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## Reviews

- R6. **Aluminium as an electron pool for organic synthesis. Multi-metal redox-promoted reactions.**  
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- R5. Oxidative desulfurization-fluorination: a facile entry to a wide variety of organofluorine compounds leading to novel liquid-crystalline materials.**  
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- R4. If electrode surfaces are modified with optically functional molecules?**  
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- R3. Fluorination reactions based on hydrogen fluoride.**  
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- R2. Syntheses of organofluorine compounds by oxidative fluorination reaction.**  
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- R1. Tris(dialkylamino)sulfonium difluorotrimethylsilicate.**  
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### **Book Chapter**

- B1. 水系／微粒子分散水系電解合成**  
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『有機電解合成の新展開』  
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