

307. K. Makiguchi, S. Kikuchi, K. Yanai, Y. Ogasawara, S. Sato, T. Satoh, T. Kakuchi, *Diphenyl Phosphate/4-Dimethylaminopyridine as an Efficient Binary Organocatalyst System for Controlled/Living Ring-Opening Polymerization of L-Lactide Leading to Diblock and End-Functionalized Poly(L-lactide)s*, *J. Polym. Sci., Part A: Polym. Chem.*,
306. K. Makiguchi, T. Yamanaka, T. Kakuchi, M. Terada, T. Satoh, *Binaphthol-Derived Phosphoric Acid as an Efficient Chiral Organocatalyst for the Enantiomer-Selective Polymerization of rac-Lactide*, *Chem. Comm.*, **50**, 2883 – 2885 (2014)
305. N. Sakai, M. Jin, S. Sato, T. Satoh, T. Kakuchi, *Synthesis of water-soluble polyisocyanates with the oligo(ethylene glycol) side-chain as new thermoresponsive polymers*, *Polym. Chem.*, **5**, 1057 – 1062 (2014)
304. T. Satoh, N. Nishikawa, D. Kawato, D. Suemasa, S. Jung, Y. Kim, M. Ree, T. Kakuchi, *Precise synthesis of a rod-coil type miktoarm star copolymer containing poly(n-hexyl isocyanate) and aliphatic polyester*, *Polym. Chem.*, **5**, 588 – 599 (2014)
303. T. Isono, I. Otsuka, D. Suemasa, C. Rochas, T. Satoh, R. Borsali, T. Kakuchi, *Synthesis, Self-Assembly, and Thermal Caramelization of Maltoheptaose-Conjugated Polycaprolactones Leading to Spherical, Cylindrical, and Lamellar Morphologies*, *Macromolecules*, **46**, 8932 – 8940 (2013)
302. T. Isono, Y. Kondo, I. Otsuka, Y. Nishiyama, R. Borsali, T. Kakuchi, T. Satoh, *Synthesis and Stereocomplex Formation of Star-Shaped Stereoblock Polylactides Consisting of Poly(L-lactide) and Poly(D-lactide) Arms*, *Macromolecules*, **46**, 8509 – 518 (2013)
301. C. Zhang, H. Wang, Q. Geng, T. Yang, L. Liu, R. Sakai, T. Satoh, T. Kakuchi, Y. Okamoto, *Synthesis of Helical Poly(phenylacetylene)s with Amide Linkage Bearing L-Phenylalanine and L-Phenylglycine Ethyl Ester Pendants and Their Applications as Chiral Stationary Phases for HPLC*, *Macromolecules*, **46**, 8406 – 8415 (2013)
300. Y-C. Chiu, C-L. Liu, W-Y. Lee, Y. Chen, T. Kakuchi, W-C. Chen, *Multilevel nonvolatile transistor memories using a star-shaped poly((4-diphenylamino)benzyl methacrylate) gate electret*, *NPG Asia Mater.*, **5**, e35 (2013)
299. 牧口孝祐, 覚知豊次, 佐藤敏文, 有機分子触媒を用いた環状エステル, 環状カーボネートおよび環状エーテルの開環重合, 有機合成化学協会誌, **71**, 706 – 715 (2013)
298. K. Fuchise, Y. Chen, T. Satoh, T. Kakuchi, *Recent progress in organocatalytic group transfer polymerization*, *Polym. Chem.*, **4**, 4278 – 4291 (2013)

297. T. Isono, K. Kamoshida, Y. Satoh, T. Takaoka, S. Sato, T. Satoh, T. Kakuchi, *Synthesis of Star- and Figure-Eight-Shaped Polyethers by *t*-Bu-P₄-Catalyzed Ring-Opening Polymerization of Butylene Oxide*, *Macromolecules*, **46**, 3841 – 3849 (2013)
296. K. Makiguchi, T. Satoh, T. Kakuchi, *Synthesis of Block and End-Functionalized Polyesters by Triflimide-Catalyzed Ring-Opening Polymerization of ϵ -Caprolactone, 1,5-Dioxepan-2-one, and *rac*-Lactide*, *J. Polym. Sci., Part A: Polym. Chem.*, **51**, 2455–2463 (2013)
295. C. Zhang, F. Liu, Y. Li, X. Shen, X. Xu, R. Sakai, T. Satoh, T. Kakuchi, Y. Okamoto, *Influence of Stereoregularity and Linkage Groups on Chiral Recognition of Poly(phenylacetylene) Derivatives Bearing L-Leucine Ethyl Ester Pendants as Chiral Stationary Phases for HPLC*, *J. Polym. Sci., Part A: Polym. Chem.*, **51**, 2271 – 2278 (2013)
294. G. Cui, Y. Li, T. Shi, Z. Gao, N. Qiu, T. Satoh, T. Kakuchi, Q. Duan, *Synthesis and characterization of Eu(III) complexes of modified cellulose and poly(*N*-isopropylacrylamide)*, *Carbohydr. Polym.* **94**, 77 – 81 (2013)
293. K. Makiguchi, Y. Ogasawara, S. Kikuchi, T. Satoh, T. Kakuchi, *Diphenyl Phosphate as an Efficient Acidic Organocatalyst for Controlled/Living Ring-opening Polymerization of Trimethylene Carbonates Leading to Block, End-functionalized, and Macrocylic Polycarbonates*, *Macromolecules*, **46**, 1772 – 1782 (2013)
292. T. Isono, I. Otsuka, Y. Kondo, S. Halila, S. Fort, C. Rochas, T. Satoh, R. Borsali, T. Kakuchi, *Sub-10 nm Nano-Organization in AB₂- and AB₃-type Miktoarm Star Copolymers Consisting of Maltoheptaose and Polycaprolactone*, *Macromolecules*, **46**, 1461 – 1469, (2013)
291. N. Xiao, Y. Chen, X. Shen, C. Zhang, S. Yano, M. Gottschaldt, U. Schubert, T. Kakuchi, T. Satoh, *Synthesis of miktoarm star copolymer Ru(II) complexes by click-to-chelate approach*, *Polym. J.*, **45**, 216-225 (2013)
290. Y. Cui, Y. Li, Q. Duan, T. Kakuchi, *Preparation of Hyaluronic Acid Micro-Hydrogel by Biotin–Avidin-Specific Bonding for Doxorubicin-Targeted Delivery*, *Appl Biochem Biotechnol*, **169**, 239 – 249 (2013)
289. C. Zhang, H. Wang, G. Su, R. Li, X. Shen, S. Zhang, Q. Geng, F. Liu, I. Otsuka, T. Satoh, T. Kakuchi, *Synthesis and conformation effects of poly(phenylacetylene)s having chiral and racemic polylactide pendants*, *Polym. Int.* 1158 – 1162 (2012)
288. W. Kwon, Y. Rho, K. Kamoshida, K. H. Kwon, Y. Ch. Jeong, J. Kim, H. Misaka, T. J. Shin, J. Kim, K.-W. Kim, K. S. Jin, T. Chang, H. Kim, T. Satoh, T. Kakuchi, M. Ree, *Well-Defined Functional Linear Aliphatic Diblock Copolyethers: A Versatile Linear Aliphatic Polyether Platform for Selective Functionalizations and Various Nanostructures*, *Adv. Funct. Mater.*, **22**, 5194 – 5208 (2012)

287. P. N. Shah, J. Min, C.-G. Chae, N. Nishikawa, D. Suemasa, T. Kakuchi, T. Satoh, J.-S. Lee, "Helicity Inversion": Linkage Effects of Chiral Poly(nhexylisocyanate)s, *Macromolecules*, **45**, 8961 – 8969 (2012)
286. Issei Otsuka, Takuya Isono, Cyrille Rochas, Sami Halila, Sebastien Fort, Toshifumi Satoh, Toyoji Kakuchi, Redouane Borsali, *10 nm Scale Cylinder-Cubic Phase Transition Induced by Caramelization in Sugar-Based Block Copolymers*, *ACS Macro Letters*, **1**, 1379 – 1382 (2012)
285. 覚知豊次, 瀧瀬啓太, 鎖末端にクリック反応性官能基を有する高分子の精密合成と機能性高分子への応用, *高分子*, **61**, 871 – 872 (2012)
284. Y. Mikata, M. Shibata, Y. Baba, T. Kakuchi, M. Nakai, S. Yano, *Synthesis and photodynamic properties of maltohexaose-conjugated porphyrins*, *J Porphyrins Phthalocyanines*, **16**, 1178 – 1185 (2012)
283. R. Sakai, E. B. Barasa, N. Sakai, S. Sato, T. Satoh, T. Kakuchi, *Colorimetric Detection of Anions in Water Using Poly(phenylacetylene) with Sulfonamide Receptors Activated by Electron Withdrawing Group*, *Macromolecules*, **45**, 8221 – 8227 (2012)
282. K. Fuchise, Y. Chen, K. Takada, T. Satoh, T. Kakuchi, *Effect of Counter Anions on Kinetics and Stereoregularity for the Strong Brønsted Acid-Promoted Group Transfer Polymerization of N,N-Dimethylacrylamide*, *Macromol. Chem. Phys.*, **213**, 1604 – 1611 (2012)
281. Y.-C. Chiu, Y. Chen, C.-C. Kuo, S.-H. Tung, T. Kakuchi, W.-C. Chen, *Synthesis, Morphology, and Sensory Applications of Multifunctional Rod-Coil-Coil Triblock Copolymers and Their Electrospun Nanofibers*, *ACS Applied Materials & Interfaces*, **4**, 3387 – 3395 (2012)
280. K. Takada, K. Fuchise, Y. Chen, T. Satoh, T. Kakuchi, *Controlled Polymerization of Methyl Acrylate for High Molecular Weight Polymers by Pentafluorophenylbis(triflyl)methane-Promoted Group Transfer Polymerization Using Triisopropylsilyl Ketene Acetal*, *J. Polym. Sci., Part A: Polym. Chem.*, **50**, 3560 – 3566 (2012)
279. A. Narumi, Y. Ohahashi, Y. Jinbo, Y. Izumi, K. Matsuda, T. Kakuchi, S. Kawaguchi, *Star Polymer with Cross-linked Core and Water-soluble Poly(N-hydroxyethylacrylamide)-Arms. Synthesis by Arm-first Method using ATRP and Characterizations by SEC-MALS and SAXS Measurement in Water*, *J. Polym. Sci., Part A: Polym. Chem.*, **50**, 3546 – 3559 (2012)
278. Y. Chen, K. Takada, K. Fuchise, T. Satoh, T. Kakuchi, *Synthesis of Syndiotactic-rich Star-shaped Poly(methyl*

- methacrylate*) by Core-first Group Transfer Polymerization using *N*-(Trimethylsilyl)bis(trifluoromethanesulfonyl)imide, *J. Polym. Sci., Part A: Polym. Chem.*, **50**, 3277 – 3285 (2012)
277. R. Sakai, A. Nagai, Y. Tago, S. Sato, Y. Nishimura, T. Arai, T. Satoh, T. Kakuchi, *Fluorescence Turn-on Sensing of Anions Based on Disassembly Process of Urea-Functionalized Poly(phenylenebutadiynylene) Aggregates*, *Macromolecules*, **45**, 4122 – 4127 (2012)
276. Z. Gao, J. Liang, X. Tao, Y. Cui, T. Satoh, T. Kakuchi, Q. Duan, *Synthesis of star-shaped poly(*N*-isopropylacrylamide) via atom transfer radical polymerization and its photocatalytic oxidation of Rhodamine B*, *Macromolecular Research*, **20**, 508 – 514 (2012)
275. T. Satoh, R. Ihara, D. Kawato, N. Nishikawa, D. Suemasa, Y. Kondo, K. Fuchise, R. Sakai, T. Kakuchi, *Precise synthesis of clickable poly(*n*-hexyl isocyanate)*, *Macromolecules*, **45**, 3677 – 3686 (2012)
274. H. Misaka, E. Tamura, K. Makiguchi, K. Kamoshida, R. Sakai, T. Satoh, T. Kakuchi, *Phosphazene Base-Catalyzed Ring-Opening Polymerization of 1,2-Butylene Oxide and Glycidyl Ether*, *J. Polym. Sci., Part A: Polym. Chem.*, **50**, 1941 – 1952 (2012)
273. H. Misaka, R. Sakai, T. Satoh, T. Kakuchi, *Synthesis of High Molecular Weight and End-Functionalized Poly(styrene oxide) by Living Ring-Opening Polymerization of Styrene Oxide using the Alcohol/Phosphazene Base Initiating System*, *Macromolecules*, **44**, 9099 – 9107 (2011)
272. Y. Chen, K. Fuchise, A. Narumi, S. Kawaguchi, T. Satoh, Toyoji Kakuchi, *Core-First Synthesis of Three-, Four-, and Six-Armed Star-Shaped Poly(methyl methacrylate)s by Group Transfer Polymerization Using Phosphazene Base*, *Macromolecules*, **44**, 9091 – 9098 (2011)
271. X. Han, Y. Satoh, T. Satoh, T. Kakuchi, S. Taguchi, T. Dairi, M. Munekata, K. Tajima, *Chemo-enzymatic synthesis of polyhydroxyalkanoate (PHA) incorporating 2-hydroxybutyrate by wild-type Class I PHA synthase from *Ralstonia eutropha**, *Appl. Microbiol. Biotechnol.*, **92**, 509 – 517 (2011)
270. C. Zhang, F. Liu, Q. Geng, S. Zhang, X. Shen, R. Kakuchi, H. Misaka, T. Kakuchi T. Satoh, R. Sakai, *Synthesis of a novel one-handed helical poly(phenylacetylene) bearing poly(*L*-lactide) side chains*, *Eur. Polym. J.*, **47**, 1923 – 1930 (2011)
269. S. Umeda, H. Nakade, T. Kakuchi, *Preparation of superabsorbent hydrogels from poly(aspartic acid) by chemical crosslinking*, *Polym. Bull.*, **67**, 1285 – 1292 (2011)

268. Z. Gao, X. Tao, Y. Cui, T. Satoh, T. Kakuchi, Q. Duan, *Synthesis of end-functionalized poly(N-isopropylacrylamide) with group of asymmetrical phthalocyanine via atom transfer radical polymerization and its photocatalytic oxidation of Rhodamine B*, *Polym. Chem.*, **2**, 2590 – 2596 (2011)
267. X. Tao, Z. Gao, T. Satoh, Y. Cui, T. Kakuchi, Q. Duan, *Synthesis and characterization of well-defined thermo- and light-responsive diblock copolymers by atom transfer radical polymerization and click chemistry*, *Polym. Chem.*, **2**, 2068 – 2073 (2011)
266. N. T. Hoai, A. Sasaki, M. Sasaki, H. Kaga, T. Satoh, T. Kakuchi, *Selective synthesis of 1,6-anhydro- β -D-mannopyranose and -mannofuranose using microwave-assisted heating*, *Carbohydr. Res.*, **346**, 1747 – 1751 (2011)
265. K. Makiguchi, T. Satoh, T. Kakuchi, *Synthesis of Various End-Functionalized Polyesters by Controlled/Living Ring-Opening Polymerization of Lactones using Pentafluorophenylbis(triflyl)methane as an Efficient Cationic Organocatalyst*, *J. Polym. Sci., Part A: Polym. Chem.*, **49**, 3769 – 3777 (2011)
264. X. Tao, R. Zhang, Z. Gao, T. Satoh, T. Kakuchi, Q. Duan, *Synthesis and property study on Eu(III) complexes of modified poly(N-isopropylacrylamide)*, *J Mater Sci.*, **46**, 6396 – 6401 (2011)
263. D. Wan, F. Chen, T. Kakuchi, T. Satoh, *Guest Release and Solution Behavior of a Hydrogen-bonding Physical Micelle during Chemoresponsive Shell Disruption*, *Polymer*, **52**, 3405 – 3412 (2011)
262. D. Wan, S. Ohta, T. Kakuchi, T. Satoh, *A Hydrophilic Unimolecular Nanocapsule with Cyclodextrin Moieties in the Core: Chemically Triggered On-demand Release and pH-Response*, *Soft Matter*, **7**, 6422-6425 (2011)
261. J.-C. Hsu, Y. Chen, T. Kakuchi, W.-C. Chen, *Synthesis of Linear and Star-shaped Poly[4-(diphenylamino)benzyl methacrylate]s by Organocatalyzed Group Transfer Polymerization and Their Electrical Memory Device Applications*, *Macromolecules*, **44**, 5168 – 5177 (2011)
260. T. Kakuchi, Y. Chen, J. Kitakado, K. Mori, K. Fuchise, T. Satoh, *Organic Superbase as an Efficient Catalyst for Group Transfer Polymerization of Methyl Methacrylate*, *Macromolecules*, **44**, 4641 – 4647, (2011)
259. T. Isono, T. Satoh, T. Kakuchi, *One-pot Synthesis of Polyrotaxane by Clipping and Cyclopolymerization of α,ω -Diethynyl Isophthalamide with Pyridiniumdicarboxamide Chloride*, *J. Polym. Sci., Part A: Polym. Chem.*, **49**, 2353 – 2365 (2011)

258. R. Sakai, N. Sakai, T. Satoh, W. Li, A. Zhang, T. Kakuchi, *Strict Size Specificity in Colorimetric Anion Detection Based on Poly(phenylacetylene) Receptor Bearing Second Generation Lysine Dendrons*, *Macromolecules*, **44**, 4249 – 4257 (2011)
257. 覚知豊次, 島田遼太郎, *アニオンを識別する π 共役らせんポリマーの設計と合成*, *未来材料*, 5 – 12 (2011)
256. N. T. Hoai, A. Sasaki, M. Sasaki, H. Kaga, T. Satoh, T. Kakuchi, *Synthesis, characterization, and lectin recognition of hyperbranched polysaccharide obtained from 1,6-anhydro-D-hexofuranose*, *Biomacromolecules*, **12**, 1891 – 1899 (2011)
255. T. Satoh, M. Tamaki, T. Taguchi, H. Misaka, N. To Hoai, R. Sakai, T. Kakuchi, *Synthesis of Novel Hyperbranched Polymer through Cationic Ring-opening Multibranching Polymerization of 2-Hydroxymethyloxetane*, *J. Polym. Sci., Part A: Polym. Chem.*, **49**, 2353 – 2365 (2011)
254. K. Makiguchi, T. Satoh, T. Kakuchi, *Diphenyl Phosphate as an Efficient Cationic Organocatalyst for Controlled/Living Ring-Opening Polymerization of δ -Valerolactone and ϵ -Caprolactone*, *Macromolecules*, **44**, 1999 – 2005 (2011)
253. A. Hirao, R. Inushima, T. Nakayama, T. Watanabe, H.-S. Yoo, T. Ishizone, K. Sugiyama, T. Kakuchi, S. Carlotti, A. Deffieux, *Precise synthesis of thermo-responsive and water-soluble star-branched polymers and star block copolymers by living anionic polymerization*, *Eur. Polym. J.*, **47**, 713 – 722 (2011)
252. F. Shozui, K. Matsumoto¹, R. Motohashi, T. Satoh, T. Kakuchi, S. Taguchi, *Biosynthesis of a lactate (LA)-based polyester with a 96 mol% LA fraction and its application to stereocomplex formation*, *Polym. Degrad. Stab.*, **96**, 499 – 504 (2011)
251. C. Zhang, X. Shen, R. Sakai, M. Gottschaldt, U. S. Schubert, S. Hirohara, M. Tanihara, S. Yano, M. Obata, N. Xiao, T. Satoh, T. Kakuchi, *Syntheses of 3- and 4-Arm Star-Branched Polystyrene Ru(II) Complexes by the Click-to-Chelate Approach*, *J. Polym. Sci., Part A: Polym. Chem.*, **49**, 746 – 753 (2011)
250. I. Otsuka, B. Blanchard, R. Borsali, A. Imberty, T. Kakuchi, *Enhancement of Lectin Binding Affinity by Three-dimensional Organized Cluster Glycosides Constructed on Helical Poly(phenylacetylene) Backbones*, *ChemBioChem*, **11**, 2399 – 2408 (2010)
249. R. Sakai, S. Okade, E. B. Barasa, R. Kakuchi, M. Ziabka, S. Umeda, K. Tsuda, T. Satoh, T. Kakuchi, *Efficient Colorimetric Anion Detection Based on Positive Allosteric System of Urea-Functionalized Poly(phenylacetylene) Receptor*, *Macromolecules*, **43**, 7406 – 7411 (2010)
248. R. Kakuchi, Y. Tsuji, K. Chiba, K. Fuchise, R. Sakai, T. Satoh, T. Kakuchi, *Living Ring Opening Polymerization of*

δ-Valerolactone using Triflylimide as an Efficient Cationic Organocatalyst, *Macromolecules*, **43**, 7090 – 7094 (2010)

247. K. Fuchise, M. Sone, Y. Miura, R. Sakai, A. Narumi, S. Sato, T. Satoh, T. Kakuchi, *Precise Synthesis of Poly(1-Adamantyl Methacrylate) by Atom Transfer Radical Polymerization*, *Polym. J.*, **42**, 626 – 631 (2010)

246. K. Fuchise, R. Kakuchi, A. Narumi, R. Sakai, T. Satoh, S. Kawaguchi, T. Kakuchi, *Group Transfer Polymerization of N,N-Dimethylacrylamide Using the Nobel Efficient System Consisting of Dialkylamino Silyl Enol Ether as an Initiator and Strong Brønsted Acid as an Organocatalyst*, *Macromolecules*, **43**, 5589 – 5594 (2010)

245. R. Kakuchi, R. Shimada, Y. Tago, R. Sakai, T. Satoh, T. Kakuchi, *Pendant Structure Governed Anion Sensing Property for Sulfonamide-Functionalized Poly(phenylacetylene)s Bearing Various α -Amino Acids*, *J. Polym. Sci., Part A: Polym. Chem.*, **48**, 1683 – 1689 (2010)

244. I. Otsuka, K. Fuchise, S. Halila, S. Fort, K. Aissou, I. Paintrand, Y. Chen, A. Narumi, T. Kakuchi, R. Borsali, *Thermo-responsive Vesicular Morphologies Obtained by Self-assemblies of Hybrid Oligosaccharide-block-Poly(N-Isopropylacrylamide) Copolymer Systems*, *Langmuir*, **26**, 2325 – 2332 (2010)

243. M. Tamaki, T. Taguchi, S. Nakabayashi, K. Mori, Y. Kitajyo, R. Sakai, T. Kakuchi, T. Satoh, *Synthesis, Structure and Characteristic of Hyperbranched 5,6-Glucan as Reducing Sugar Ball*, *Polymer Chemistry*, **1**, 82 – 92 (2010)

242. R. Sakai, T. Yonekawa, I. Otsuka, R. Kakuchi, T. Satoh, T. Kakuchi, *Host-Guest Complexation-Triggered Chiroptical Change of Poly(phenylacetylene)s Bearing Binaphthocrown Ether Moieties on the Main Chain*, *J. Polym. Sci., Part A: Polym. Chem.*, **48**, 1197 – 1206 (2010)

241. Y. Mikata, T. Sawaguchi, T. Kakuchi, M. Gottschaldt, U. S. Schubert, H. Ohi, S. Yano, *Control of aggregation property of tris(maltohexaose)-linked porphyrins with an alkyl chain*, *Eur. J. Org. Chem.*, 663 – 671 (2010)

240. Y. H. Na, K. Aida, R. Sakai, T. Kakuchi, H. Orihara, *Response of shear stress to ac electric fields under steady shear flow in a droplet-dispersed phase*, *Phys. Rev. E*, **80**, 061803 (2009)

239. Z. Li, S. O. Kyeremateng, K. Fuchise, R. Kakuchi, R. Sakai, T. Kakuchi, J. Kressler, *Thermodynamics and Kinetics of LCST-Behavior of Poly(N-isopropylacrylamide) in Water Using a Short Perfluoroalkyl Segment*, *Macromol. Chem. Phys.*, **210**, 2138 – 2147 (2009)

238. H. Satoh, H. Kaga, T. Kakuchi, T. Satoh, K. Takahash, *Formation of Anhydroglucose in Ionic Liquids by Microwave*

Heating -Temperature and Chloride Ion Effects-, Chem. Lett., **38**, 1178 – 1179 (2009)

237. M. Tamaki, T. Taguchi, Y. Kitajyo, K. Takahashi, R. Sakai, T. Kakuchi, T. Satoh, *LCST-type Liquid-liquid and Liquid-solid Phase Transition Behaviors of Hyperbranched Polyglycerol Bearing Imidazolium Salt*, J. Polym. Sci., Part A: Polym. Chem., **47**, 7032 – 7042 (2009)

236. R. Kakuchi, K. Chiba, K. Fuchise, R. Sakai, T. Satoh, and T. Kakuchi, *Strong Brønsted Acid as a Highly Efficient Promoter for Group Transfer Polymerization of Methyl Methacrylate*, Macromolecules, **42**, 8747 – 8750 (2009)

235. K. Fuchise, R. Kakuchi, R. Sakai, T. Satoh, S.-T. Lin, W.-C. Chen, T. Kakuchi, *Control of Thermoresponsive Property of Urea End-Functionalized Poly(*N*-isopropylacrylamide) Based on the Hydrogen Bond Assisted Self-Assembly in Water*, J. Polym. Sci., Part A: Polym. Chem., **47**, 6259 – 6268 (2009)

234. S.-T. Lin, K. Fuchise, Y. Chen, R. Sakai, T. Satoh, T. Kakuchi, W.-C. Chen, *Synthesis, Thermomorphic Characteristics, and Fluorescent Properties of Poly[2,7-(9,9-dihexylfluorene)]-block-poly(*N*-isopropylacrylamide)-block-poly(*N*-hydroxyethylacrylamide) Rod-Coil-Coil Triblock Copolymers*, Soft Matter, **5**, 3761 – 3770 (2009)

233. T. Kiba, H. Suzuki, K. Hosokawa, H. Kobayashi, S. Baba, T. Kakuchi, S. Sato, *Supramolecular J-aggregate assembly of a covalently linked zinc porphyrin- β -cyclodextrin conjugate in a water/ethanol binary mixture*, J. Phys. Chem., **113**, 11560 – 11563 (2009)

232. K. Takahashi, H. Satoh, T. Satoh, T. Kakuchi, M. Miura, A. Sasaki, M. Sasaki, H. Kaga, *Formation kinetics of levoglucosan from glucose in high temperature water*, Chem. Eng. J., **153**, 170 – 174 (2009)

231. H. Misaka, R. Kakuchi, C. Zhang, R. Sakai, T. Satoh, T. Kakuchi, *Synthesis of Well-Defined Macrocyclic Poly(δ -valerolactone) by “Click Cyclization”*, Macromolecules, **42**, 5073 – 5079 (2009)

230. R. Kakuchi, Y. Tago, R. Sakai, T. Satoh, T. Kakuchi, *Effect of the Pendant Structure on Anion Signaling Property of Poly(phenylacetylene)s Conjugated to α -Amino Acids through Urea Groups*, Macromolecules, **42**, 4430 – 4435 (2009)

229. R. Kakuchi, T. Kodama, R. Shimada, Y. Tago, R. Sakai, T. Satoh, T. Kakuchi, *Optical and Chiroptical Output of Anion Recognition Event Using Clustered Sulfonamide Groups Organized on Poly(phenylacetylene) Backbone*, Macromolecules, **42**, 3892 – 3897 (2009)

228. T. Satoh, Y. Kitajyo, R. Sakai, A. Narumi, K. Takahashi, H. Kaga, N. Kaneko, T. Kakuchi, *Size-Selective Encapsulation Property of Unimolecular Reverse Micelle Consisting of Hyperbranched D-Glucan Core and L-Leucine Ethyl Ether Shell*, *Macromol. Symp.*, **279**, 145 – 150 (2009)
227. Y. Chen, M. Sone, K. Fuchise, R. Sakai, R. Kakuchi, Q. Duan, J. Sun, A. Narumi, T. Satoh, T. Kakuchi, *Structural effect of a series of block copolymers consisting of poly(N-isopropylacrylamide) and poly(N-hydroxyethylacrylamide) on thermoresponsive behavior*, *React. Funct. Polym.*, **69**, 463 – 469 (2009)
226. K. Tajima, Y. Satoh, T. Satoh, R. Itoh, X. Han, S. Taguchi, T. Kakuchi, M. Munekata, *Chemo-enzymatic synthesis of poly(lactate-co-(3-hydroxybutyrate)) by a Lactate-polymerizing enzyme*, *Macromolecules*, **42**, 1985 – 1989 (2009)
225. R. Kakuchi, S. Nagata, Y. Tago, R. Sakai, I. Otsuka, T. Satoh, T. Kakuchi, *Efficient Anion Recognition Property of Three Dimensionally Clustered Amide Groups Organized on Poly(phenylacetylene) Backbone*, *Macromolecules*, **42**, 1476 – 1481 (2009)
224. A. Narumi, Y. Chen, M. Sone, K. Fuchise, R. Sakai, T. Satoh, Q. Duan, S. Kawaguchi, T. Kakuchi, *Poly(N-hydroxyethylacrylamide) Prepared by Atom Transfer Radical Polymerization as a Nonionic, Water-Soluble, and Hydrolysis-Resistant Polymer and/or Segment of Block Copolymer with a Well-Defined Molecular Weight*, *Macromol. Chem. Phys.*, **210**, 349 – 358 (2009)
223. C. Giacomelli, V. Schmidt, J. Putaux, A. Narumi, T. Kakuchi, R. Borsali, *Aqueous self-assembly of polystyrene chains end-functionalized with β -cyclodextrin*, *Biomacromolecules*, **10**, 449 – 453 (2009)
222. R. Kakuchi, S. Nagata, R. Sakai, I. Otsuka, H. Nakade, T. Satoh, T. Kakuchi, *Size-Specific, Colorimetric Detection of Counter Anions using Helical Poly(phenylacetylene) Conjugated to L-Leucine groups through Urea acceptors*, *Chem. Eur. J.*, **14**, 10259 – 10266 (2008)
221. O. Nishizawa, H. Misaka, R. Sakai, T. Kakuchi, T. Satoh, *Copolymerization of Ethylene and Norbornene using Cyclopentadienylzirconium Trichloride Activated by Isobutyl-modified Methylaluminoxane*, *J. Polym. Sci., Part A: Polym. Chem.*, **46**, 7411 – 7418 (2008)
220. I. Otsuka, R. Sakai, R. Kakuchi, T. Satoh, T. Kakuchi, *Chiroptical Switching System Based on the Host-Guest Interaction Between Metal Cations and Poly(phenylacetylene)s Bearing Polycarbohydrate Ionophore*, *Eur. Polym. J.*, **44**, 2971 – 2979 (2008)

219. A. Narumi, K. Fuchise, R. Kakuchi, A. Toda, T. Satoh, S. Kawaguchi, K. Sugiyama, A. Hirao, T. Kakuchi, *A Versatile Method for Adjusting Thermoresponsivity: Synthesis and 'Click' Reaction of an Azido End-Functionalized Poly(N-isopropylacrylamide)*, *Macromol. Rapid Commun.*, **29**, 1126 – 1133 (2008)
218. T. Satoh, Y. Kinugawa, M. Tamaki, Y. Kitajyo, R. Sakai, T. Kakuchi, *Synthesis, Structure, and Characteristics of Hyperbranched Polyterpene Alcohols*, *Macromolecules*, **41**, 5265 – 5271 (2008)
217. A. Narumi, T. Kakuchi, *Synthesis of Glycoconjugated Branched Macromolecular Architectures*, *Polym. J.*, **40**, 383 – 397 (2008)
216. M. Sasaki, K. Takahashi, Y. Haneda, H. Satoh, A. Sasaki, A. Narumi, T. Satoh, T. Kakuchi, H. Kaga, *Thermochemical transformation of glucose to 1,6-anhydroglucose in high-temperature steam*, *Carbohydrate Research*, **343**, 848 – 854 (2008)
215. O. Nishizawa, H. Misaka, T. Kakuchi, T. Satoh, *Vinyl addition polymerization of norbornene using cyclopentadienylzirconiumtrichloride activated by isobutyl-modified methylaluminoxane*, *J. Polym. Sci., Part A: Polym. Chem.*, **46**, 1185 – 1191 (2008)
214. K. Hosokawa, Y. Miura, T. Kiba, T. Kakuchi, S. Sato, *Fluorescence resonance energy transfer in host-guest inclusion complexes of cyclodextrin-porphyrin composite in aqueous solution*, *Chem. Lett.*, **37**, 60 – 61 (2008)
213. Y. Kitajyo, Y. Kinugawa, M. Tamaki, H. Kaga, N. Kaneko, T. Satoh, T. Kakuchi, *Synthesis, Characterization, and Functionalization of Hyperbranched Poly(3,4-epoxycyclohexanemethanol)*, *Macromolecules*, **40**, 9313 – 9321 (2007)
212. A. Narumi, R. Sakai, S. Ishido, M. Sone, T. Satoh, H. Kaga, H. Nakade, T. Kakuchi, *Enantiomer-Selective Radical Polymerization of Bis(4-vinylbenzoate)s with Chiral Atom Transfer Radical Polymerization Initiating Systems*, *Macromolecules*, **40**, 9272 – 9278 (2007)
211. I. Otsuka, T. Hongo, H. Nakade, A. Narumi, R. Sakai, T. Satoh, H. Kaga, T. Kakuchi, *Chiroptical and Lectin Recognition Properties of Glycoconjugated Poly(phenylacetylene)s Featuring Variable Saccharide Functionalities*, *Macromolecules*, **40**, 8930 – 8937 (2007)
210. Y. Kitajyo, Y. Nawa, M. Tamaki, H. Tani, K. Takahashi, H. Kaga, T. Satoh, T. Kakuchi, *A unimolecular nanocapsule: Encapsulation property of amphiphilic polymer based on hyperbranched polythreitol*, *Polymer*, **48**, 4683-4690, (2007)
209. T. Satoh, T. Kakuchi, *Synthesis of Hyperbranched Carbohydrate Polymers by Ring-Opening Multibranching*

Polymerization of Anhydro Sugar, *Macromolecular Bioscience*, **7**, 999 – 1009 (2007)

208. R. Sakai, T. Kakuchi, *Synthesis and helicity induction of poly(phenylacetylene)s bearing crown ether pendants. Reversible on-off switching of the induced helical chirality tunable with temperature*, *Macromolecular Symposia*, **249/250** (Advanced Polymers for Emerging Technologies), 81 – 85, (2007)

207. Y. Kitajyo, T. Imai, Y. Sakai, M. Tamaki, H. Tani, K. Takahashi, H. Kaga, N. Kaneko, T. Satoh, T. Kakuchi, *Amphiphilic Hyperbranched Polysaccharide. Synthesis of Hyperbranched D-Glucan with L-Leucine Moiety as a Unimolecular Reverse Micelle Possessing an Encapsulation-Release Property toward Dye Molecules*, *Polymer*, **48**, 1237 – 1244 (2007)

206. S. Sato, T. Nakamura, S. Nitobe, T. Kiba, K. Hosokawa, T. Kasajima, I. Otsuka, S. Akimoto, T. Kakuchi, *Structure and Excitation Relaxation Dynamics of Dimethylantracene Dimer in a γ -Cyclodextrin Nanocavity in Aqueous Solution*, *J. Phys. Chem., B*, **110**, 21444 – 21449 (2006)

205. A. Narumi, Y. Miura, S. Yamane, I. Otsuka, T. Satoh, A. Hirao, N. Kaneko, H. Kaga, T. Kakuchi, *End-Functionalization of Polystyrene by Malto-Oligosaccharide Generating Aggregation-Tunable Polymeric Reverse Micelle*, *J. Polym. Sci., Part A: Polym. Chem.*, **44**, 4864 – 4879 (2006)

204. 堺井亮介, 大塚一世, 覚知亮平, 佐藤敏文, 覚知豊次, ホスト・ゲスト相互作用に基づくらせんポリマーの合成, 反転, および不斉認識, 高分子論文集, **63**, 315 – 324 (2006)

203. 覚知 豊次, キラリティーを選択するラジカル重合, 高分子, **55**, 275 (2006)

202. R. Sakai, I. Otsuka, T. Satoh, R. Kakuchi, H. Kaga, T. Kakuchi, *Thermoresponsive On-off Switching of Chiroptical Property Induced in Poly(4'-ethynylbenzo-15-crown-5)/ α -Amino Acid System*, *Macromolecules*, **39**, 4032 – 4037 (2006)

201. A. Narumi, H. Kaga, Y. Miura, I. Otsuka, T. Satoh, N. Kaneko, T. Kakuchi, *Polystyrene Microgel Amphiphilicities with Maltotetraose. Synthesis, Characterization, and Potential Application*, *Biomacromolecules*, **7**, 1496 – 1501 (2006)

200. A. Narumi, I. Otsuka, T. Matsuda, Y. Miura, T. Satoh, N. Kaneko, H. Kaga, T. Kakuchi, *Glycoconjugated Polymer. Synthesis and Characterization of Poly(vinyl saccharide)-block-polystyrene-block-poly(vinyl saccharide) as Amphiphilic ABA Triblock Copolymer*, *J. Polym. Sci., Part A: Polym. Chem.*, **44**, 3978 – 3985 (2006)

199. T. Satoh, K. Saitoh, S. Umeda, K. Tsuda, T. Kakuchi, *Chromatographic Application of 3,4-Di-O-alkyl-(1 \rightarrow 6)-2,5-anhydro-D-glucitol for Separation of Alkali and Alkaline Earth Metal Ions*, *Polym. J.*, **38**, 490 – 494

(2006)

198. A. Narumi, H. Kaga, Y. Miura, T. Satoh, N. Kaneko, T. Kakuchi, *Synthesis of polystyrene microgel with glucose as hydrophilic segment via controlled free-radical polymerization*, *Polymer*, **47**, 2269 – 2273 (2006)

197. Q. Duan, A. Narumi, Y. Miura, X. Shen, S. Sato, T. Satoh, T. Kakuchi, *Thermoresponsive Property Controlled by End-Functionalization of Poly(*N*-isopropylacrylamide) with Phenyl, Biphenyl, and Triphenyl Groups*, *Polym. J.*, **38**, 306 – 310 (2006)

196. X. Shen, Y. Kitajyo, Q. Duan, A. Narumi, H. Kaga, N. Kaneko, T. Satoh, T. Kakuchi, *Synthesis and Photocrosslinking Reaction of *N*-Allylcarbamoylmethyl Cellulose leading to Hydrogel*, *Polym. Bull.*, **56**, 137 – 143 (2006)

195. Y. Miura, T. Satoh, A. Narumi, O. Nishizawa, Y. Okamoto, T. Kakuchi, *Synthesis of Well-Defined Syndiotactic Poly(Methyl Methacrylate) using Low Temperature Atom Transfer Radical Polymerization in Fluoroalcohol*, *J. Polym. Sci., Part A: Polym. Chem.*, **44**, 1436 – 1446 (2006)

194. Q. Duan, Y. Miura, A. Narumi, X. Shen, T. Satoh, T. Kakuchi, *Synthesis and Thermoresponsive Property of End-Functionalized Poly(*N*-isopropylacrylamide) with Pyrenyl Group*, *J. Polym. Sci., Part A: Polym. Chem.*, **44**, 1117 – 1124 (2006)

193. T. Satoh, M. Tamaki, Y. Kitajyo, T. Maeda, H. Ishihara, T. Imai, H. Kaga, T. Kakuchi, *Synthesis of unimolecular reversed micelle consisting of poly-*L*-lactide shell and hyperbranched *D*-mannan core*, *J. Polym. Sci., Part A: Polym. Chem.*, **44**, 406 – 413(2006)

192. R. Sakai, I. Otsuka, T. Satoh, R. Kakuchi, H. Kaga, T. Kakuchi, *Chiral Discrimination of Helically Organized Crown Ether Array Parallel to the Helix Axis of Polyisocyanate*, *J. Polym. Sci., Part A: Polym. Chem.*, **44**, 325 – 334 (2006)

191. I. Otsuka, R. Sakai, T. Satoh, R. Kakuchi, H. Kaga, T. Kakuchi, *Metal Cation-Induced Chiroptical Switching for Poly(phenylacetylene) Bearing Macromolecular Ionophore as Graft Chain*, *J. Polym. Sci., Part A: Polym. Chem.*, **43**, 5855 – 5863 (2005)

190. T. Satoh, T. Imai, S. Umeda, K. Tsuda, H. Hashimoto, T. Kakuchi, *Regio- and Stereoselective Cyclizations of Dianhydro Sugar Alcohol Catalyzed by Chiral (*salen*)CoIII Complex leading to Cyclic Sugar Alcohol*, *Carbohydr. Res.*, **340**, 2677 – 2681 (2005)

189. R. Kakuchi, R. Sakai, I. Otsuka, T. Satoh, H. Kaga, T. Kakuchi, *Poly(phenylacetylene) Derivatives Bearing a Crown Cavity on the Main Chain*, *Macromolecules*, **38**, 9441 – 9447 (2005)
188. X. Shen, N. Sugie, Q. Duan, Y. Kitajyo, T. Satoh, T. Kakuchi, *Synthesis and Characterization of Cellulose Carbamates Having α -Amino Acid Moieties*, *Polym. Bull.*, **55**, 317 – 322 (2005)
187. A. Narumi, S. Yamane, Y. Miura, H. Kaga, T. Satoh, T. Kakuchi, *Star-shaped Polystyrenes with Glycoconjugated Periphery and Interior. Synthesis and Entrapment of Hydrophilic Molecule*, *J. Polym. Sci., Part A: Polym. Chem.*, **43**, 4373 – 4381 (2005)
186. Y. Miura, A. Narumi, S. Matsuya, T. Satoh, Q. Duan, H. Kaga, T. Kakuchi, *Synthesis of Well-defined AB₂₀-type Star Polymers with Cyclodextrin-Core by Combination of NMP and ATRP*, *J. Polym. Sci., Part A: Polym. Chem.*, **43**, 4271 – 4279 (2005)
185. T. Satoh, T. Imai, N. Sugie, K. Yokota, T. Kakuchi, *Polymerization of 1,2:5,6-diethylthio-3,4-di-O-methyl-1,2,5,6-tetra-deoxy-D-mannitol, -L-Iditol, and -allitol using zinc complexes. The regio- and stereoselectivities and asymmetric synthesis of thiosugar polymers*, *J. Polym. Sci., Part A: Polym. Chem.*, **43**, 4118 – 4125 (2005)
184. M. Obata, Y. Tanaka, N. Araki, S. Yano, M. Harada, K. Mitsuo, K. Asai, T. Kakuchi, C. Ohtsuki, *Synthesis of Poly(isobutyl methacrylate-co-2,2,2-trifluoroethyl methacrylate) having Tetraphenylporphinato Platinum(II) Moiety as an Oxygen-Sensing Dye for Pressure Sensitive Paint (PSP)*, *J. Polym. Sci., Part A: Polym. Chem.*, **43**, 2997 – 3006 (2005)
183. T. Satoh, T. Imai, H. Ishihara, T. Maeda, Y. Kitajyo, Y. Sakai, H. Kaga, N. Kaneko, F. Ishii, T. Kakuchi, *Synthesis, Branched Structure, and Solution Property of Hyperbranched D-Glucan and D-Galactan*, *Macromolecules*, **38**, 4202 – 4210 (2005)
182. K. Yoshida, T. Anyashiki, T. Kakuchi, *Synthesis and flexibility-hardness of polymer coatings based on melamine with mesogenic groups*, *Prog. Org. Coat.*, **52**, 227 – 237 (2005)
181. K. Yoshida, T. Kakuchi, *UV curable coatings with mesogenic side groups*, *Prog. Org. Coat.*, **52**, 165 – 172 (2005)
180. T. Imai, Y. Nawa, Y. Kitajyo, T. Satoh, H. Kaga, N. Kaneko, T. Kakuchi, *Synthesis of Hyperbranched Polytetritol by Ring-Opening Multibranching Polymerizations of 2,3-Anhydroerythritol and 2,3-Anhydro-DL-threitol*, *Macromolecules*, **38**, 1648 – 1654 (2005)

179. Y. Miura, T. Satoh, A. Narumi, O. Nishizawa, Y. Okamoto, T. Kakuchi, *Atom Transfer Radical Polymerization of Methyl Methacrylate in Fluoroalcohol: Simultaneous Control of Molecular Weight and Tacticity*, *Macromolecules*, **38**, 1041 – 1043 (2005)
178. 石戸 総、青木 登和子、佐藤 敏文、覚知 豊次、キラル開始系を用いたビス(4-ビニルベンゾエート)誘導体の不斉選択ラジカル重合、高分子加工、**54**, 2–6 (2005)
177. 佐藤 敏文、今井 知子、北城 喜一、覚知 豊次、無水糖のカチオン開環重合によるハイパーブランチ多糖の合成、食品・食品添加物研究誌 (Foods & Food Ingredients Journal of Japan), **209**, 397 – 403 (2004)
176. H. Kaga, S. Yamane, A. Narumi, T. Satoh, T. Kakuchi, *Synthesis of Star-Shaped Polystyrenes with Glucose in the Chain-End and Core*, *Macromol. Symp.*, Volume **217**, Contributions from 6th Austrian Polymer Meeting, Edited by W.H. Binder, WILEY-VCH Verlag GmbH, Weinheim, Germany, 29 – 38 (2004)
175. T. Satoh, T. Imai, Y. Kitajyo, T. Maeda, A. Narumi, H. Kaga, N. Kaneko, T. Kakuchi, *Synthesis of Hyperbranched Polysaccharide by Thermally Induced Cationic Polymerization of 1,6-Anhydrohexopyranose*, *Macromol. Symp.*, Volume **217**, Contributions from 6th Austrian Polymer Meeting, Edited by W.H. Binder, WILEY-VCH Verlag GmbH, Weinheim, Germany, 39 – 46 (2004)
174. M. Obata, S. Yano, K. Kamino, K. Yokota, T. Kakuchi, *Asymmetric Radical Cyclization of (2S,3S)-2,3-Butanediyl, (2S,4S)-2,4-Pentanediyl, and (2S,5S)-2,5-Hexanediyl Bis(4-vinylbenzoate)s as a Model Reaction for Asymmetric Cyclopolymers*, *J. Polym. Sci., Part A: Polym. Chem.*, **42**, 4671 – 4681 (2004)
173. M. Tsuji, T. Aoki, R. Sakai, T. Satoh, H. Kaga, T. Kakuchi, *Enantiomer-selective radical cyclopolymers of rac-2,4-pentanediyl dimethacrylate using a ruthenium-mediated chiral atom transfer radical polymerization initiating system*. *J. Polym. Sci., Part A: Polym. Chem.*, **42**, 4563 – 4569 (2004)
172. R. Sakai, T. Satoh, R. Kakuchi, H. Kaga, T. Kakuchi, *Helicity Induction of Polyisocyanate with a Crown Cavity on the Main Chain Synthesized by Cyclopolymers of α,ω -Diisocyanate*, *Macromolecules*, **37**, 3996 – 4003 (2004)
171. T. Imai, T. Satoh, H. Kaga, N. Kaneko, T. Kakuchi, *Synthesis of Hyperbranched Carbohydrate Polymer by Ring-Opening Multibranching Polymerization of 1,4-Anhydroerythritol and 1,4-Anhydro-L-threitol*, *Macromolecules*, **37**, 3113 – 3119 (2004)
170. M. Miura, H. Kaga, A. Sakurai, T. Kakuchi, K. Takahashi, *Rapid pyrolysis of wood block by microwave heating*, *J. Anal.*

Appl. Pyrol., **71**, 187 – 199 (2004)

169. 辻雅司、堺井亮介、青木登和子、佐藤敏文、覚知豊次、光学活性な Ru 開始系を用いた 2,4-ペンタンジイルメタクリレートのエナンチオマー選択ラジカル重合、高分子論文集、 **61**, 269 – 274 (2004)

168. 高橋憲司、覚知豊次、超臨界二酸化炭素中での高分子合成、未来材料、 **4**, 20 – 27 (2004)

167. T. Satoh, T. Kakuchi, *Cyclopolymerization of dianhydro sugar leading to novel carbohydrate polymers as macromolecular ionophores*, Prog. Polym. Sci., **29**, 13 – 43 (2004)

166. M. Okimoto, Y. Takahashi, T. Kakuchi, *Electrochemical formation of methoxy- and cyano(phenylazo)alkanes from aldehyde and ketone phenylhydrazones*, Synthesis, 2057 – 2063 (2003)

165. T. Satoh, T. Imai, H. Ishihara, T. Maeda, Y. Kitajyo, A. Narumi, H. Kaga, N. Kaneko, T. Kakuchi, *Synthesis of hyperbranched polysaccharide by thermally induced cationic polymerization of 1,6-anhydro- β -D-mannopyranose*, Macromolecules, **36**, 6364 – 6370 (2003)

164. T. Imai, T. Satoh, H. Kaga, N. Kaneko, T. Kakuchi, *Synthesis of Hyperbranched 2,5-Anhydro-D-glucitol by Proton-Transfer Cyclopolymerization of 1,2:5,6-Dianhydro-D-mannitol*, Macromolecules, **36**, 6359 – 6363 (2003)

163. M. Sharfuddin, A. Narumi, Y. Iwai, K. Miyazawa, S. Yamada, T. Kakuchi, H. Kaga, *Lipase-catalyzed dynamic kinetic resolution of hemiaminals*, Tetrahedron: Asymmetry, **14**, 1581 – 1585 (2003)

162. 鳴海敦、覚知豊次、高分子化学におけるマルトオリゴ糖の活用、食品・食品添加物研究誌 (Foods & Food Ingredients Journal of Japan), **208**, 251 – 258 (2003)

161. T. Kakuchi, A. Narumi, T. Matsuda, Y. Miura, N. Sugimoto, T. Satoh, H. Kaga, *Glycoconjugated Polymer. 5. Synthesis and Characterization of a Seven-Arm Star Polystyrene with a β -Cyclodextrin Core Based on TEMPO-Mediated Living Radical Polymerization*, Macromolecules, **36**, 3914 – 3920 (2003)

160. T. Kakuchi, A. Narumi, Y. Miura, S. Matsuya, N. Sugimoto, T. Satoh, H. Kaga, *Glycoconjugated Polymer. 4. Synthesis and Aggregation Property of Well-Defined End-Functionalized Polystyrene with β -Cyclodextrin*, Macromolecules, **36**, 3909 – 3913 (2003)

159. R. Sakai, T. Satoh, R. Kakuchi, H. Kaga, T. Kakuchi, *Macromolecular Helicity Induction in Novel Optically Inactive Poly(phenylisocyanate) Bearing Crown Ether Based on the Host-Guest Complexation*, *Macromolecules*, **36**, 3709 – 3713 (2003)
158. A. Narumi, K. Kawasaki, H. Kaga, T. Satoh, N. Sugimoto, T. Kakuchi, *Glycoconjugated polymer 6. Synthesis of poly[styrene-block-(styrene-graft-amylose)] via potato phosphorylase-catalyzed polymerization*, *Polym. Bull.*, **49**, 405 – 410 (2003)
157. M. Okimoto, Y. Takahashi, T. Kakuchi, *Electrooxidative Formation of 1,2-Diaroylcyclopropanes from 1,3-Diaroylpropanes in the Presence of KI*, *Bull. Chem. Soc. Jap.*, **76**, 207 – 208 (2003)
156. 高橋憲司, 覚知豊次, *超臨界二酸化炭素中の重合および高分子反応*, *高分子*, **52**, 269 (2003)
155. Y. Tachibana, M. Kurisawa, H. Uyama, T. Kakuchi, S. Kobayashi, *Thermoresponsive Hydrogels Based on Biodegradable Poly(amino acid)s*, *Chem. Lett.*, **32**, 374 – 375 (2003)
154. T. Kakuchi, M. Tsuji, T. Satoh, *Asymmetric Atom Transfer Radical Polymerization: Enantiomer-Selective Cyclopolymerization of rac-2,4-Pentanediyyl Dimethacrylate Using Chiral ATRP Initiator*, ACS Symposium Series **854** – Advances in Controlled/Living Radical Polymerization, Edited by Krzysztof Matyjaszewski, 206 – 220, American Chemical Society, Washington, DC, (2003)
153. T. Satoh, H. Ishihara, H. Sasaki, H. Kaga, T. Kakuchi, *A Novel Ladder Polymer. Two-Step Polymerization of Oxetanyl Oxirane Leading to a "Fused 15-Crown-4 Polymer" Having a High Li⁺-Binding Ability*, *Macromolecules*, **36**, 1522 – 1525 (2003)
152. N. Sugimoto, A. Narumi, T. Satoh, H. Kaga, T. Kakuchi, *A convenient synthesis of functionalized alkoxyamines as initiators for living free radical polymerization*, *Polym. Bull.*, **49**, 337 – 340 (2003)
151. M. Tsuji, R. Sakai, T. Satoh, H. Kaga, T. Kakuchi, *Enantiomer-Selective Radical Polymerization of rac-2,4-Pentanediyyl Dimethacrylate by 2,2'-Azobisisobutyronitrile/Copper(II) Trifluoromethanesulfonate/Chiral Diamine as Asymmetric Reverse Atom Transfer Radical Polymerization Initiating System*, *Polym. J.*, **35**, 84 – 87 (2003)
150. Y. Tachibana, M. Kurisawa, H. Uyama, T. Kakuchi, Toyoji, S. Kobayashi, *Biodegradable thermoresponsive poly(amino acid)s*, *Chem. Comm.*, 106 – 107 (2003)

149. M. Tsuji, R. Sakai, T. Satoh, H. Kaga, T. Kakuchi, *Enantiomer-Selective Radical Cyclopolymerization of rac-2,4-Pentanediyyl Dimethacrylate Using ATRP Initiating System with Chiral Amine Ligand*, *Macromolecules*, **35**, 8255 – 8257 (2002)
148. T. Imai, K. Hayakawa, T. Satoh, H. Kaga, T. Kakuchi, *Enantiomer-Selective Polymerization of (RS)-(Phenoxyethyl)thiirane with Diethylzinc/L-Amino Acid*, *J. Polym. Sci., Part A: Polym. Chem.*, **40**, 3443 – 3448, (2002)
147. T. Fukuoka, H. Uyama, T. Kakuchi, S. Kobayashi, *Synthesis of a New Class of High-Molecular-Weight Soluble Poly(amino acid)s by Oxidative Polymerization of Polyfunctional Macromolecules*, *Macromol. Rapid Commun.*, **23**, 698 – 702 (2002)
146. Y. Arima, S. Akimoto, T. Yamazaki, M. Shibata, S. Hirohara, S. Yano, T. Kakuchi, I. Yamazaki, *Excitation relaxation dynamics and molecular dispersion of maltohexaose-linked tetraphenylporphyrins in aqueous solution*, *Chem. Phys. Lett.*, **361**, 152 – 158 (2002)
145. A. Kusuno, M. Mori, T. Satoh, M. Miura, H. Kaga, T. Kakuchi, *Enantioseparation Property of (1→6)- α -D-Glucopyranan and (1→6)- α -D-Mannopyranan Tris(phenylcarbamate)s as Chiral Stationary Phases in HPLC*, *Chirality*, **14**, 498 – 502 (2002)
144. H. Kaga, A. Narumi, T. Satoh, T. Matsuda, M. Sharfuddin, T. Kakuchi, *Synthesis of Star-Shaped Polystyrenes with Glucose- and Maltohexaose-Conjugated Core through Nitroxide-Controlled Free-Radical Polymerization*, *Macromol. Symp.*, Volume **181**, *Chemical and Physical Aspects of Polymer Science and Engineering*, Edited by N. Aust, K. Lederer, WILEY-VCH Verlag GmbH, Weinheim, Germany, 95 – 100 (2002)
143. T. Kakuchi, A. Kusuno, M. Mori, T. Satoh, M. Miura, M. Sharfuddin, H. Kaga, *Precision Synthesis of (1→6)- α -D-Glucopyranan by Cationic Ring-Opening Polymerization of 1,6-Anhydro-2,3,4-Tri-O-Allyl- β -D-Glucopyranose*, *Macromol. Symp.*, Volume **181**, *Chemical and Physical Aspects of Polymer Science and Engineering*, Edited by N. Aust, K. Lederer, WILEY-VCH Verlag GmbH, Weinheim, Germany, 101 – 106 (2002)
142. T. Kakuchi, N. Sugimoto, *Reversed-Type Micelle Formation Property of End-Glycosidated Polystyrene*, *ACS Symposium Series 812 - Synthetic Macromolecules with Higher Structural Order*, Edited by I. M. Khan, 177 – 184, American Chemical Society, Washington, DC, 2002
141. A. Narumi, T. Matsuda, H. Kaga, T. Satoh, and T. Kakuchi, *Synthesis of amphiphilic triblock copolymer of polystyrene and poly(4-vinylbenzyl glucoside) via TEMPO-mediated living radical polymerization*, *Polymer*, **43**, 4835 – 4840 (2002)

140. T. Kakuchi, M. Obata, *Synthesis and Mechanism of a Main-Chain Chiral Polymer Based on Asymmetric Cyclopolymerization*, *Macromol. Rapid Commun.*, **23**, 395 – 406 (2002)
139. T. Satoh, T. Imai, N. Sugie, R. Nonokawa, K. Yokota, T. Kakuchi, *Bulk Cyclopolymerization of 1,2:5,6-Diepithio-3,4-di-O-methyl-1,2:5,6-tetra-deoxy-D-mannitol with Quaternary Ammonium Salts Leading to Gel-Free Thiosugar Polymer*, *J. Polym. Sci., Part A: Polym. Chem.*, **40**, 965 – 970 (2002)
138. A. Hamazawa, I. Kinoshita, B. Breedlove, K. Isobe, M. Shibata, Y. Baba, T. Kakuchi, S. Hirohara, M. Obata, Y. Mikata, S. Yano, *meso-Tetraphenylporphyrin Having Hexas-maltosyl and Decyl Chain as an Amphiphilic Photosensitizer toward Photodynamic Therapy*, *Chem. Lett.*, 388 – 389 (2002)
137. A. Narumi, T. Satoh, M. Miura, H. Kaga, T. Kakuchi, *Glycoconjugated Polymer 3. Synthesis and Amphiphilic Property of Core-Glycoconjugated Star-Shaped Polystyrene*, *Macromolecules*, **35**, 699 – 705 (2002)
136. A. Kusuno, Y. Kakuchi, *Novel syntheses of poly(aspartic acid) and related polymers as biodegradable materials*, *Research Advances in Macromolecules*, **2**, 29 – 39 (2001)
135. 覚知豊次, 三浦雄樹, 高橋憲司, 井戸川清, 加我晴生, 佐々木皇美, *超臨界流体を利用したセルロースカルバメーの合成*, *高分子論文集*, **58**, 502 – 506 (2001)
134. 覚知豊次, *超臨界流体を反応溶媒とした多糖誘導体の合成*, *Cellulose Commun.*, **8**, 66 – 70, (2001)
133. A. Narumi, T. Matsuda, T. Satoh, H. Kaga, T. Kakuchi, *Glycoconjugated Polymer II. Synthesis of Polystyrene-block-poly(4-vinylbenzyl glucoside) and Polystyrene-block-poly(4-vinylbenzyl maltohexaoside) via 2,2,6,6-Tetramethylpiperidine-1-oxyl-Mediated Living Radical Polymerization*, *Polym. J.*, **33**, 939 – 945 (2001)
132. A. Narumi, H. Kaga, K. Kawasaki, Y. Taniguchi, T. Satoh, T. Kakuchi, *Glycoconjugated Polymer. 1. Synthesis and Characterization of Amphiphilic Polystyrenes with Glucose, Maltose, and Maltohexaose as Hydrophilic Segments*, *J. Polym. Sci., Part A: Polym. Chem.*, **39**, 4061 – 4067 (2001)
131. H. Nakade, M. Obata, M. Tsuji, A. Narumi, T. Satoh, K. Yokota, T. Kakuchi, *Chirality induction in cyclopolymerization. 16. Synthesis of Optically Active Poly(methyl acrylate-co-dimethyl fumarate) by Radical Cyclopolymerization of Asymmetrical Nonconjugated Diene Having Chiral Pentanediol (Dedicated to Prof. Kazuaki Yokota on the occasion of his happy retirement)*, *Polym. J.*, **33**, 946 – 951 (2001)

130. A. Kusuno, M. Mori, M. Miura, H. Kaga, T. Kakuchi, *Synthesis and Optical Resolution Property of (1→6)- α -D-Glucopyranan Tris(Phenylcarbamate) as Chiral Stationary Phase in HPLC*, *Enantiomer*, **6**, 27 – 33 (2001)
129. T. Kakuchi, M. Tsuji, H. Shimomura, M. Obata, K. Yokota, *Chirality induction in cyclocopolymerization. 15. Enhancement of chirality induction during cyclocopolymerization of (2S,3S)-2,3-butanediyl bis(4-vinylbenzoate) with styrene using alkylaluminum compounds*, *Polymer*, **42**, 5159 – 5163 (2001)
128. T. Kakuchi, A. Narumi, H. Kaga, Y. Yamauchi, M. Obata, T. Uesaka, K. Yokota, *Chirality Induction in Cyclocopolymerization. 14. Template Effect of 1,2-Cycloalkanediol in the Cyclocopolymerization of Bis(4-vinylbenzoate)s with Styrene*, *Macromolecules*, **34**, 38 – 43 (2001)
127. K. Yokota, H. Hashimoto, T. Satoh, S. Umeda, T. Kakuchi, *Syntheses of novel carbohydrate polymers via regio- and stereoselective cyclopolymerization of 1,2:5,6-dianhydrohexitols*, *Current Trends in Polymer Science*, **5**, 63 – 77 (2001)
126. 高橋憲司， 覚知豊次， *超臨界流体とグリーンケミストリー*， *食品・食品添加物研究誌 (Foods & Food Ingredients Journal of Japan)*, **186**, 16 – 25 (2000)
125. 覚知豊次， 梅田哲， 佐藤敏文， 横田和明， *液膜による光学分割*， *膜*， **25**, 273 – 276 (2000)
124. 覚知豊次， 小幡誠， 横田和明， *キラルジオールをテンプレートとした不斉ラジカル環化共重合における主鎖不斉ポリマーの生成機構*， *有機合成化学協会誌*， **58**, 306 – 315 (2000)
123. 覚知豊次， 高橋憲司， 佐々木皇美， *超臨界二酸化炭素を反応溶媒としたセルロースのフェニルカーバメート化反応*， *Jasco Report*， *超臨界最新技術特集第4号 反応；合成特集*， 7 – 10 (2000)
122. K. Yokota, T. Kakuchi, T. Satoh, S. Umeda, M. Kamada, *Synthesis of a novel polymeric carbohydrate via regio- and stereoselective cyclopolymerization of 1,2:5,6-dianhydrohexitol*, *Macromolecular Symposia*, **157**, 13 – 20 (2000)
121. S. Umeda, T. Satoh, K. Saitoh, H. Kanai, M. Kamada, K. Yokota, T. Kakuchi, *A Novel Chiral Stational Phase in HPLC. Optical Resolution of Racemic Amino Compounds by (1→6)-2,5-Anhydro-3,4-di-O-ethyl-D-Glucitol Bound on Silica Gel*, *Enantiomer*, **5**, 473 – 479 (2000)
120. T. Satoh, D. Kitazawa, R. Nonokawa, M. Kamada, K. Yokota, H. Hashimoto, T. Kakuchi, *Cyclopolymerization of*

1,2:5,6-Diepiithio-3,4-di-O-methyl-1,2,5,6-tetra-deoxy-D-mannitol and -L-iditol Leading to a Novel Thio-Sugar Polymer,
Macromolecules, **33**, 5303 – 5307 (2000)

119. T. Nakato, M. Tomida, M. Suma, Y. Morishima, A. Kusuno, T. Kakuchi, *Preparation and characterization of dodecylamine-modified poly(aspartic acid) as biodegradable water-soluble polymeric material*, Polym. Bull., **44**, 385 – 391 (2000)

118. T. Nakato, A. Kusuno, T. Kakuchi, *Synthesis of Poly(succinimide) by Bulk Polycondensation of L-Aspartic Acid using Acid-Catalyst*, J. Polym. Sci., Part A: Polym. Chem., **38**, 117 – 122 (2000)

117. T. Kakuchi, R. Nonokawa, S. Umeda, T. Satoh, K. Yokota, *Ring-Opening and Ring-Forming Polymerization of 1,2:5,6:9,10-Triepoxydecane Leading to Highly Regioselective Polymer Consisting of Octahydrobifuranyl Unit*, Macromolecules, **33**, 246 – 247 (2000)

116. T. Kakuchi, A. Kusuno, H. Kaga, T. Ishibashi, M. Obata, K. Yokota, *Chirality Induction in Cyclocopolymerization. 13. Structural Effect of 1,3-Diol as Chiral Templates in the Cyclocopolymerization of Bis(4-vinylbenzoate)s with Styrene*, Macromolecules, **33**, 3964 – 3969 (2000)

115. T. Kakuchi, A. Kusuno, M. Miura, H. Kaga, *Cationic ring-opening polymerization of 1,6-anhydro-2,3,4-tri-O-allyl- β -D-glucopyranose as a convenient synthesis of dextran*, Macromol. Rapid Commun., **21**, 1003 – 1006 (2000)

114. 覚知豊次, 横田和明, 不斉ラジカル重合, 高分子, **48**, 502 – 505 (1999)

113. K. Yokota, T. Uesaka, M. Obata, H. Shomomura, T. Kakuchi, *Chirality Induction in Cyclocopolymerization. XI. Bulkiness Effect of 1,2-Diol Templates on Cyclocopolymerizations of Bis(4-vinylbenzoate)s with Styrene*, Polym. J., **11**, 1037 – 1040 (1999)

112. S. Yano, S. Inoue, Y. Yasuda, T. Tanase, Y. Mikata, T. Kakuchi, T. Tsubomura, M. Yamasaki, I. Kinoshita, M. Doee, *First synthesis and characterization of zinc(II) complexes containing N-glycosides derived from ethylenediamine and D-glucosamine*, J. Chem. Soc. DALTON Trans, 1851 – 1855 (1999)

111. T. Uesaka, Y. Sugiura, M. Obata, A. Narumi, K. Yokota, T. Kakuchi, *Chirality Induction in Cyclopolymerization. 10. Structural Effect of Three D-Mannitol Templates in the Cyclocopolymerization of Bis(4-vinylbenzoate) with Styrene*, Polym. J., **31**, 342 – 347 (1999)

110. T. Satoh, K. Shibata, K. Yokota, T. Kakuchi, *Regio- and stereoselective cyclopolymerization of 1,2:4,5-dianhydro-3-O-methyl-xylitol Leading to a novel polycarbohydrate of (2→5)-1,4-anhydro-3-O-methyl-pentitol*, *Macromol. Rapid Commun.*, **20**, 55 – 58 (1999)
109. M. Obata, K. Yokota, T. Kakuchi, *Chirality Induction in Cyclocopolymerization. 12. Conformational Effect of Monomer on Asymmetric Cyclocopolymerization of 2,3-bis-O-(4-vinylbenzoyl)-L-tartarates with Styrene*, *Enantiomer*, **4**, 419 – 429 (1999)
108. T. Nakato, K. Oda, M. Yoshitake, M. Tomida, T. Kakuchi, *Synthesis and characterization of poly(aspartic acid) and its derivatives as biodegradable materials*, *J. Macromol. Sci., Pure Appl. Chem.*, **A36**, 949 – 961 (1999)
107. M. Miyajima, N. Sugimoto, K. Tsuda, T. Kakuchi, K. Yokota, *Cyclopolymerization of N,N'-bis(phenylsulfonyl)-N,N'-divinylethylenediamine and the Related Monomer*, *Polym. J.*, **31**, 442 – 446 (1999)
106. M. Kamada, T. Satoh, T. Kakuchi, K. Yokota, *Asymmetric Cyclization of meso-Diepoxides using Chiral (salen)Co(III)OAc Catalyst forming Optically Active 1,4-Anhydropentitols and 2,5-Anhydrohexitols*, *Tetrahedron Asymmetry*, **10**, 3667 – 3669 (1999)
105. M. Kamada, T. Satoh, T. Kakuchi, K. Yokota, *Regio- and Stereoselective Cyclopolymerization of 1,2:5,6-Dianhydroallitol and 1,2:5,6-Dianhydrogalactitol Leading to a Novel Carbohydrate Polymer of (2→6)-1,5-Anhydro-DL-galactitol*, *Macromolecules*, **32**, 5755 – 5759 (1999)
104. T. Kakuchi, A. Kusuno, M. Shibata, T. Nakato, *Synthesis and radical polymerization of end-methacrylated poly(succinimide) leading to poly(aspartic acid) hydrogel*, *Macromol. Rapid Commun.*, **20**, 410 – 414 (1999)
103. T. Kakuchi, T. Hatakeyama, H. Kanai, T. Satoh, K. Yokota, H. Kaga, K. Haraguchi, *Macromolecular Ionophore.2. Metal Cation-Binding Property of (1→6)-2,5-Anhydro-D-glucitol*, *Polym. J.*, **31**, 293 – 295 (1999)
102. F. Ishii, S. Matsunami, M. Shibata, T. Kakuchi, *Cis-Trans Isomerization and ¹³C-NMR Chemical Shift of Polyphenylacetylene*, *J. Polym. Sci., Part B: Polym. Phys.*, **37**, 1657 – 1664 (1999)
101. F. Ishii, S. Matsunami, M. Shibata, T. Kakuchi, *UV-Vis Absorption Study of cis- and trans-Poly(phenylacetylene)s Based on CNDO/S Calculation*, *Polym. J.*, **31**, 84 – 88 (1999)
100. F. Ishii, W. Hirahata, K. Yokota, K. Tsuda, A. Hirao, T. Kakuchi, *Fixed Crosslink Formation and Viscoelasticity of Polystyrene Networks*, *J. Polym. Sci., Part B: Polym. Phys.*, **37**, 3319 – 3327 (1999)

99. S. Yano, S. Inoue, R. Nouchi, K. Mogami, Y. Shinohara, Y. Yasuda, M. Kato, T. Tanase, T. Kakuchi, Y. Mikata, T. Suzuki, Y. Yamamoto, *Antifungal nickel(II) complexes derived from amino sugars against pathogenic yeast, Candida albicans*, J. Inorg. Biochem., **69**, 15 – 23 (1998)
98. S. Umeda, T. Satoh, T. Hatakeyama, K. Yokota, T. Kakuchi, *Synthesis of (1→6)-2,5-Anhydro-D-glucitol through Cyclopolymerization of 3,4-Di-O-allyl-1,2:5,6-dianhydro-D-mannitol and Optical Resolution Ability of Its Derivative in HPLC*, J. Polym. Sci., Part A: Polym. Chem., **36**, 901 – 909 (1998)
97. K. Tsuda, K. Tsutsumi, M. Yaegashi, M. Miyajima, T. Ishizone, A. Hirao, T. Kakuchi, *Radical polymerization of (phenylethynyl)styrenes and characterization of poly(phenylethynyl)styrenes as a thermally curable material*, Polym. Bull., **40**, 651 – 658 (1998)
96. T. Satoh, Y. Tanaka, K. Yokota, T. Kakuchi, *Enantioselective permeability of the membranes prepared from polyacrylonitrile-graft-(1→6)-2,5-anhydro-D-glucitol*, React. Funct. Polym., **37**, 293 – 298 (1998)
95. M. Obata, T. Tanaka, K. Yokota, T. Kakuchi, *Chirality Induction in Cyclocopolymerization. 9. Characterization of Chirality Induction during the Cyclocopolymerizations of (2S,3S)-2,3-Butanediyl, (2S,4S)-2,4-Pentanediyl, and (2S,5S)-2,5-Hexanediyl Bis(4-vinylbenzoate)s with Styrene*, Macromolecules, **31**, 4403 – 4409 (1998)
94. T. Nakato, M. Yoshitake, K. Matsubara, M. Tomida, T. Kakuchi, *Relationships between Structure and Properties of Poly(aspartic acid)s*, Macromolecules, **31**, 2107 – 2113 (1998)
93. T. Nakato, M. Tomida, A. Kusuno, M. Shibata, T. Kakuchi, *Synthesis of poly(succinimide-amide) by acid catalyzed polycondensation of L-aspartic acid and aromatic aminocarboxylic acid*, Polym. Bull., **40**, 647 – 650 (1998)
92. Y. Mikata, Y. Onchi, M. Shibata, T. Kakuchi, H. Ono, S. Ogura, I. Okura, S. Yano, *Synthesis and Phototoxic Property of Tetra- and Octa-Glycoconjugated Tetraphenylchlorins*, Bioorg. Med. Chem. Lett., **8**, 3543 – 3548 (1998)
91. T. Kakuchi, S. Matsunami, K. Tsuda, F. Ishii, *Crowned polyacetylene. 4. Solid state NMR studies on molecular motions and cis-trans isomerization of poly(4'-ethynylbenzo-15-crown-5)*, Polym. Bull., **40**, 533 – 540 (1998)
90. H. Kaga, Y. Yamauchi, A. Narumi, K. Yokota, T. Kakuchi, *Practical kinetic resolution of trans-1,2-cycloalkanediols by Lipase-catalysed transesterification*, Enantiomer, **3**, 203 – 205 (1998)

89. T. Hatakeyama, M. Kamada, T. Satoh, K. Yokota, T. Kakuchi, "Living" Nature in Anionic Cyclopolymerization of 1,2:5,6-Dianhydro-3,4-di-O-methyl-D-mannitol Using the Potassium tert-Butoxide/18-Crown-6 Initiating System, *Macromolecules*, **31**, 2889 – 2893 (1998)
88. M. Shibata, A. Kusuno, T. Kakuchi, T. Nakato, M. Yoshikawa, M. Tomida, Acid-catalyzed copolymerization of aspartic acid with ω -amino acid. Biodegradability and Ca^{2+} chelating ability of poly(aspartic acid-co- ω -amino acid), *Macromolecular Symposia*, **130**, 229 – 244 (1998)
87. 覚知豊次, 上坂貴洋, 小幡誠, 横田和明, キラルテンプレートを用いた不斉環化重合, *高分子論文集*, **54**, 684 – 695 (1997)
86. 覚知豊次, 佐藤敏文, 横田和明, 1,2:5,6-ジアニドロヘキントールの精密環化重合による新規糖ポリマーの合成, *有機合成化学協会誌*, **55**, 290 – 300 (1997)
85. K. Yokota, T. Kakuchi, T. Uesaka, M. Obata, Chirality induction in cyclopolymerization, *Acta Polymerica*, **48**, 459 – 470 (1997)
84. K. Yokota, T. Kakuchi, N. Fukui, T. Kuroda, Y. Morimoto, E. Hamaya, I. Murase, R. Sonoda, Synthesis of Poly(arylenesiloxane) via Reactions of Oligocyclic Carbonate and Polycarbonate with Cyclosiloxanes, *Polym. J.*, **29**, 58 – 64 (1997)
83. T. Uesaka, O. Haba, E. Hamaya, K. Yokota, T. Kakuchi, Chirality Induction in Cyclopolymerization. 7. Asymmetric Cyclopolymerization of-1,2:5,6-Di-O-isopropylidene-3,4-bis-O-(4-vinylbenzoyl)-D-iditol with Styrene, *Enantiomer*, **2**, 215 – 223 (1997)
82. K. Tsuda, W. Hirahata, K. Yokota, T. Kakuchi, T. Ishizone, A. Hirao, Radical polymerization of (trimethylsilylethynyl)styrene and thermal properties of polystyrene with ethynyl group, *Polym. Bull.*, **39**, 173 – 178 (1997)
81. M. Tomida, T. Nakato, S. Matsunami, T. Kakuchi, Convenient synthesis of high molecular weight poly(succinimide) by acid-catalyzed polycondensation of L-aspartic acid, *Polymer*, **38**, 4733 – 4736 (1997)
80. T. Satoh, T. Miura, T. Hatakeyama, K. Yokota, T. Kakuchi, Synthesis of end-functionalized (1 \rightarrow 6)-2,5-anhydro-D-glucitols via anionic cyclopolymerization of 1,2:5,6-dianhydro-3,4-di-O-methyl-D-mannitol for preparing graft copolymers, *Macromol. Rapid Commun.*, **18**, 1041 – 1048 (1997)

79. T. Satoh, D. Kitazawa, H. Hashimoto, K. Yokota, T. Kakuchi, *Cyclopolymerization of (2S,3S,4S,5S)-1,2:5,6-Diepithio-3,4-dimethoxyhexane Leading to a Novel Polymer with Cyclic Sulfide Unit Possessing High Ag⁺- and Cu²⁺-Binding Characteristics*, *Macromolecules*, **30**, 2802 – 2804 (1997)
78. M. Obata, T. Kakuchi, K. Yokota, *Chirality induction in cyclopolymerization. 8. Cyclocopolymerization of 1,2:5,6-Di-O-isopropylidene-3,4-di-O-methacryloyl-D-mannitol with styrene*, *Macromolecules*, **30**, 348 – 353 (1997)
77. S. Matsunami, T. Kakuchi, F. Ishii, *Deuterium Nuclear Quadrupole Coupling and cis-trans Isomerization in Poly(phenylacetylene-d₁)*, *Macromolecules*, **30**, 1074 – 1078 (1997)
76. T. Kakuchi, T. Watanabe, S. Matsunami, H. Kamimura, O. Haba, K. Yokota, *Crowned polyacetylene. 3. Synthesis and cation-binding property of polyphenylacetylene with azacrown cavity by cyclopolymerization of α,ω -bis(4'-ethynylphenoxy)oligooxyethylene containing a pyridyl unit*, *Polymer*, **38**, 1233 – 1238 (1997)
75. T. Kakuchi, M. Shibata, S. Matsunami, T. Nakato, M. Tomida, *Synthesis and Characterization of Poly(succinimide-co-6-aminocaproic acid) by Acid-Catalyzed Polycondensation of L-Aspartic Acid and 6-Aminocaproic Acid*, *J. Polym. Sci., Part A: Polym. Chem.*, **35**, 285 – 289 (1997)
74. T. Kakuchi, T. Satoh, H. Kanai, S. Umeda, T. Hatakeyama, K. Yokota, *Chromatographic Optical Resolution of Racemic Amine and Amino Acid by (1 \rightarrow 6)-2,5-Anhydro-3,4-di-O-methyl-D-glucitol bound on Silica Gel*, *Enantiomer*, **2**, 273 – 276 (1997)
73. T. Kakuchi, W. Hirahata, S. Yano, H. Kaga, *Synthesis and characterization of polyamides based on cubane-1,4-dicarboxylic acid*, *Polym. Bull.*, **38**, 651 – 655 (1997)
72. O. Haba, M. Obata, K. Yokota, T. Kakuchi, *Chirality Induction in Cyclopolymerization. 6. Enantioselective Cationic Cyclopolymerization of Divinyl Ethers with Chiral 10-Camphorsulfonic Acid/Zinc Chloride Initiating System*, *J. Polym. Sci., Part A: Polym. Chem.*, **35**, 353 – 359 (1997)
71. K. Yokota, T. Satoh, T. Kakuchi, *Molecular recognition (Macromolecular ionophore)*, *Polymeric Material Encyclopedia*, J. C. Solomon Ed. CRC Press, Inc., N. Y., **7**, 4464 – 4468 (1996)
70. M. Tomida, T. Nakato, M. Shibata, S. Matsunami, T. Kakuchi, *Novel method of synthesizing poly(succinimide) and its copolymeric derivatives by acid-catalyzed polycondensation of L-aspartic acid*, *Polymer*, **37**, 4435 – 4437 (1996)
69. T. Satoh, T. Hatakeyama, S. Umeda, K. Yokota, T. Kakuchi, *Regio- and Stereoselective Cyclopolymerization of*

- 1,2:5,6-Dianhydro-3,4-di-O-methyl-D-glucitol Leading to Polymers with 2,5-Anhydro-3,4-di-O-methyl-D-mannitol and/or -L-iditol Units*, Polym. J., **28**, 520 – 526 (1996)
68. T. Satoh, T. Hatakeyama, S. Umeda, M. Kamada, K. Yokota, T. Kakuchi, *Anionic Cyclopolymerization of 1,2:5,6-Dianhydro-3,4-di-O-methyl-L-iditol Leading to (6→1)-2,5-Anhydro-3,4-di-O-methyl-D-glucitol*, Macromolecules, **29**, 6681 – 6684 (1996)
67. T. Satoh, T. Hatakeyama, S. Umeda, H. Hashimoto, K. Yokota, T. Kakuchi, *A novel polymeric carbohydrate. Synthesis of (1→6)-2,5-anhydro-D-glucitol by regio- and stereoselective anionic cyclopolymerization of 1,2:5,6-dianhydro-D-mannitol*, Macromolecules, **29**, 3447 – 3452 (1996)
66. S. Matsunami, T. Watanabe, H. Kamimura, F. Ishii, K. Tsuda, K. Kakuchi, *Thermal isomerization of cis-poly(phenylacetylene). Scission of polymer main-chain and formation of 1,3,5-triphenylbenzene as a pyrolysis product*, Polymer, **37**, 4853 – 4855 (1996)
65. K. Kakuchi, T. Watanabe, H. Kamimura, S. Matsunami, K. Yokota, *Synthesis and Ag⁺-binding property of polyphenylacetylene with aza-crown cavity by cyclopolymerization of 2,6-bis[7'-(4"-ethynylphenoxy)-2',5'-dioxahexyl]pyridine*, Polymer, **37**, 3767 – 3769 (1996)
64. T. Kakuchi, S. Umeda, T. Satoh, K. Yokota, T. Yuhta, A. Kikuchi, S. Murabayashi, *Lymphocyte activation effect of (1→6)-2,5-anhydro-D-glucitol and its derivatives substituted with 3,4-di-O-methyl and sulfate groups*, Int. J. Bio. Macromol., **18**, 147 – 148 (1996)
63. T. Kakuchi, T. Satoh, J. Mata, S. Umeda, H. Hashimoto, K. Yokota, *Synthesis and cation-binding properties of (1→6)-2,5-anhydro-D-glucitol with 3,4-di-O-pentyl and decyl groups by cyclopolymerization of 1,2:5,6-dianhydro-D-mannitols*, J. Macromol. Sci. Pure Appl. Chem., **A33**, 325 – 336 (1996)
62. T. Kakuchi, T. Satoh, H. Kanai, S. Umeda, T. Hatakeyama, H. Hashimoto, K. Yokota, *Regio- and Stereoselectivity in Cyclopolymerization of (2S,5S)-1,2:5,6-Diepoxyhexane*, Macromolecules, **29**, 4490 – 4493 (1996)
61. T. Kakuchi, O. Haba, T. Uesaka, Y. Yamauchi, M. Obata, Y. Morimoto, K. Yokota, *Chirality induction in cyclopolymerization. 5. Template effect of chiral acyclic 1,2-glycols on the cyclocopolymerizations of (S)-1,2-propanediyl and (2S,3S)-2,3-butanediyl bis(4-vinylbenzoate)s with styrene*, Macromol. Chem. Phys., **197**, 2931 – 2942 (1996)
60. T. Kakuchi, O. Haba, T. Uesaka, M. Obata, Y. Morimoto, K. Yokota, *Chirality Induction in Cyclopolymerization. 3.*

Template Effect of Chiral Acyclic 1,3-Glycols on the Cyclocopolymerizations of (S)-1,3-Butanediyl and (2S,4S)-2,4-Pentanediyl Bis(4-vinylbenzoate)s with Styrene, *Macromolecules*, **29**, 3812 – 3817 (1996)

59. T. Kakuchi, O. Haba, E. Hamaya, T. Naka, T. Uesaka, K. Yokota, *Chirality Induction in Cyclopolymerization. 2. Synthesis of Optically Active Poly[(methyl 4-vinylbenzoate)-co-styrene] by Cyclocopolymerization of 1,2:5,6-Di-O-isopropylidene-3,4-bis-O-(4-vinylbenzoyl)-D-mannitol and -D-glucitol with Styrene*, *Macromolecules*, **29**, 3807 – 3811 (1996)

58. T. Kakuchi, O. Haba, N. Fukui, T. Uesaka, M. Obata, K. Yokota, *Chirality induction in cyclopolymerization. 4. Using three diastereomeric templates, methyl 4,6-O-isopropylidene- α -D-glucopyranoside, manno-, and altropyranoside in the cyclocopolymerization of bis(4-vinylbenzoate) with styrene*, *Polymer*, **37**, 5703 – 5709 (1996)

57. O. Haba, K. Yokota, T. Kakuchi, *Enantioselective cationic cyclopolymerization*, *Polymeric Material Encyclopedia*, J. C. Solomon Ed. CRC Press, Inc., N. W., **2**, 1765 – 1770 (1996)

56. O. Haba, Y. Morimoto, T. Uesaka, K. Yokota, T. Kakuchi, *(s)-1,2-Propanediol as the Simplest Acyclic Template for the Asymmetric Induction in Cyclocopolymerization*, *Polym. J.*, **28**, 467 – 469 (1996)

55. K. Yokota, O. Haba, T. Satoh, T. Kakuchi, *Cyclopolymerization. Chirality induction for synthesis of chiroselective corand/ionophore ligands*, *Macromol. Chem. Phys.*, **196**, 2383 – 2416 (1995)

54. T. Satoh, K. Yokota, T. Kakuchi, *Synthesis of (1 \rightarrow 6)-2,5-Anhydro-3,4-di-O-methyl-D-glucitol via Highly Regio- and Stereospecific Cyclopolymerization of 1,2:5,6-Dianhydro-3,4-di-O-methyl-D-mannitol with Postassium tert-Butoxide*, *Macromolecules*, **28**, 4762 – 4764 (1995)

53. H. Sasaki, J.M. Rudzinski, T. Kakuchi, *Photoinitiated Cationic Polymerization of Oxetane Formulated with Oxirane*, *J. Polym. Sci., Part A: Polym. Chem.*, **33**, 1807 – 1816 (1995)

52. H. Sasaki, A. Kuriyama, T. Kakuchi, *Photoinitiated Cationic Polymerization of 3-Ethyl-3-(phenoxyethyl)-oxetane in Nitrogen Atmosphere*, *J. Macromol. Sci. Pure Appl. Chem.*, **A32** 1699 – 1707 (1995)

51. T. Kakuchi, S. Umeda, T. Satoh, H. Hashimoto, K. Yokota, *Synthesis of poly[(1 \rightarrow 6)-2,5-anhydro-D-glucitol] by cationic cyclopolymerization of 1,2:5,6-di-O-allyl-1,2:5,6-Dianhydro-D-mannitol*, *J. Macromol. Sci. Pure Appl. Chem.*, *Macromol. Report*, **A32**, 1007 – 1018 (1995)

50. T. Kakuchi, T. Satoh, S. Umeda, J. Mata, K. Yokota, *Macromolecular Ionophores. I. Chiral Recognition Properties of Poly[(1 \rightarrow 6)-2,5-anhydro-D-glucitol] Toward Racemic Amino Acid Ester*, *Chirality*, **7**, 136 – 139 (1995)
49. T. Kakuchi, T. Satoh, S. Umeda, H. Hashimoto, K. Yokota, *Regio- and Stereospecificity in Cationic Cyclopolymerization of 1,2:5,6-Dianhydro-3,4-di-O-methyl-D-mannitol and L-iditol and the Synthesis of Poly[(1 \rightarrow 6)-2,5-anhydro-3,4-di-O-methyl-D-glucitol]*, *Macromolecules*, **28**, 5643 – 5648 (1995)
48. T. Kakuchi, Y. Morimoto, O. Haba, K. Yokota, *Synthesis and Cation-Binding Property of Copolymers with Benzo-19-crown-6 Units via Cationic Cyclocopolymerizations of 1,2-Bis[2-(2-vinyloxyethoxy)ethoxy]benzene with Phenyl Vinyl Ether, 4-Methoxystyrene, and 9-Vinylcarbazole*, *Polym. J.*, **27**, 862 – 866 (1995)
47. T. Kakuchi, S. Matsunami, H. Kamimura, F. Ishii, T. Uesaka, K. Yokota, *Crowned Polyacetylene I. Synthesis and Characterization of Poly(4'-ethynylbenzo-15-crown-5)*, *J. Polym. Sci., Part A: Polym. Chem.*, **33**, 1431 – 1436 (1995)
46. T. Kakuchi, S. Matsunami, H. Kamimura, F. Ishii, *Crowned Polyacetylene. 2. Cis Form Determination of Poly(4'-ethynylbenzo-15-crown-5) by Solid-State NMR Method*, *J. Polym. Sci., Part B: Polym. Phys.*, **33**, 2151 – 2158 (1995)
45. T. Kakuchi, H. Kamimura, S. Matsunami, K. Yokota, K. Tsuda, *Synthesis of Poly(polyphenylacetylene) with a Crown Cavity by Cyclopolymerization of 1,14-Bis(4-ethynylphenoxy)-3,6,9,12-tetraoxatetradecane*, *Macromolecules*, **28**, 658 – 660 (1995)
44. T. Kakuchi, O. Haba, N. Fukui, K. Yokota, *Chirality Induction in Cyclopolymerization. I. Cyclocopolymerization of 1,4-Bis-[O-(4-vinylbenzoyl)]-2,3-O-isopropylidene-L-threitol with Styrene*, *Macromolecules*, **28**, 5941 – 5946 (1995)
43. O. Haba, K. Yokota, T. Kakuchi, *Chirality Induction in Cyclopolymerization of Bis(p-vinylbenzoate)s of Carbohydrates With Styrene: Chiroptical Study of Resulting Polymer by Exciton Chirality Method*, *Chirality*, **7**, 193 – 198 (1995)
42. O. Haba, Y. Morimoto, T. Uesaka, K. Yokota, T. Kakuchi, *(2S,4S)-2,4-Pentanediol as the acyclic template for asymmetric induction in cyclocopolymerization*, *Polymer*, **36**, 4151 – 4154 (1995)
41. O. Haba, Y. Morimoto, T. Uesaka, K. Yokota, T. Kakuchi, *(S)-1,3-Butanediol as a Simple Template for Asymmetric Induction in Cyclocopolymerization*, *Macromolecules*, **28**, 6378 – 6380 (1995)
40. H. Sasaki, A. Kuriyama, T. Kakuchi, *Fast photopolymerization of oxetanes in nitrogen atmosphere*, *J. Macromol. Sci. Pure Appl. Chem., Macromol. Report*, **A31**, 635 – 641 (1994)

39. T. Kakuchi, H. Hashimoto, Y. Harada, T. Satoh, K. Yokota, *Cyclocopolymerization of α,ω -diepoxide with monoepoxy comonomer. Synthesis and cation-binding property of copolymers with dibenzo-19-crown-6 units*, J. Macromol. Sci. Pure Appl. Chem., **A31**, 751 – 759 (1994)
38. T. Kakuchi, Y. Harada, T. Satoh, K. Yokota, H. Hashimoto, *New macromolecular ionophore: Enantioselective membrane transport of racemic amino acid by poly[(1 \rightarrow 6)-2,5-anhydro-3,4-di-O-methyl-D-glucitol]*, Polym. Commun., **35**, 204 – 206 (1994)
37. 覚知豊次, キラルなテンプレートを用いた光学活性ポリスチレン類の合成, 高分子, **42**, 924 (1993)
36. K. Tsuda, T. Ishizone, A. Hirao, T. Kakuchi, K. Yokota, *Protection and Polymerization of Functional Monomers. 19. Synthesis of Well-Defined Poly(ethynylstyrene)s by Means of Anionic Living Polymerization of (Trimethylsilyl)ethynylstyrenes*, Macromolecules, **26**, 6985 – 6991 (1993)
35. T. Kakuchi, K. Aoki, O. Haba, K. Yokota, *Polymeric chiral crown ethers. 9. Synthesis and chiral recognition ability of copolymers with (S)-binaphtho-21-crown-6 and D-manno-21-crown-6 units by cyclocopolymerization of α,ω -divinylethers with monovinylether*, Polym. Bull., **31**, 37 – 42 (1993)
34. T. Kakuchi, K. Aoki, O. Haba, K. Yokota, *Cationic Copolymerization of Divinyl Ethers with Vinyl Ether. Synthesis and Cation-Binding Property of Copolymer with Benzo-19-Crown-6 units*, Polym. J., **25**, 839 – 845 (1993)
33. O. Haba, T. Kakuchi, K. Yokota, *Enantioselective Cyclocopolymerization of Benzaldehyde Divinyl Acetal with a Chiral 10-Camphorsulfonic Acid/ZnCl₂ Dichloride Initiating System*, Macromolecules, **26**, 1782 – 1783 (1993)
32. 覚知豊次, 環化重合を用いた機能性ポリマーの合成, 海外高分子研究, **38**, 166 – 167 (1992)
31. K. Yokota, T. Kakuchi, T. Yamamoto, T. Hasegawa, O. Haba, *Asymmetric induction arising from the chiral twist of 2,2'-binaphthyl template in the cyclocopolymerization of divinyl ethers*, Makromol. Chem., **193**, 1805 – 1813 (1992)
30. K. Yokota, T. Kakuchi, K. Sakurai, Y. Iwata, H. Kawai, *Chirality induction arising from the twist of template on the cyclocopolymerization of 2,3-O-isopropylidene-1,4-di-O-meth-acryloyl-L-threitol with styrene*, Makromol. Chem., Rapid Commun., **13**, 343 – 349 (1992)

29. M. Miyazima, K. Tsuda, T. Kakuchi, K. Yokota, *Synthesis of polymers with cryptand-like units via radical cyclopolymerization of diacrylate and dimethacrylate derived from diaza-12-crown-4, and binding property for lithium ion*, Polym. Bull., **28**, 23 – 28 (1992)
28. T. Kakuchi, H. Kawai, S. Katoh, O. Haba, K. Yokota, *Synthesis of Optically Active Poly(methyl methacrylate) by Cyclopolymerization of 1,4-Di-O-methacryloyl-L-threitol*, Macromolecules, **25**, 5545 – 5546 (1992)
27. T. Kakuchi, O. Haba, K. Yokota, *Cyclopolymerization of Divinyl Ethers. Synthesis and the Cation-Binding Property of Poly(crown ether)s*, Macromolecules, **25**, 4854 – 4858 (1992)
26. T. Kakuchi, O. Haba, Y. Harada, H. Hashimoto, K. Yokota, *Synthesis of poly(hemispherand) via cyclopolymerization of diepoxide*, Polym. Bull., **27**, 599 – 605 (1992)
25. H. Hashimoto, T. Kakuchi, O. Haba, K. Yokota, *Polymeric Chiral Crown Ethers, 8. Synthesis of Optically Active poly(dibenzo-19-crown-6)s via Cyclopolymerization of diepoxides*, Macromolecules, **25**, 1828 – 1831 (1992)
24. T. Kakuchi, O. Haba, K. Yokota, *Polymeric chiral crown ethers, Synthesis of polymers incorporating methyl glycosides of α -D-altrose, α -D-galactose, α -D-glucose, and α -D-mannose residues via cyclopolymerization of divinyl ethers*, Makromol. Chem., **192**, 1601 – 1608 (1991)
23. T. Ishizone, A. Hirao, S. Nakahama, T. Kakuchi, K. Yokota, K. Tsuda, *Protection and Polymerization of Functional Monomers. 16. Anionic Living Polymerization of 4-[(trimethylsilyl)ethynyl]styrene*, Macromolecules, **24**, 5230 – 5231 (1991)
22. H. Hashimoto, T. Kakuchi, K. Yokota, *Synthesis of a New Macromolecular Ionophore with 2,5-Anhydro-D-glucitol Units via Cyclopolymerization of 1,2:5,6-Dianhydro-3,4-di-O-ethyl-D-mannitol*, J. Org. Chem., **56**, 6470 – 6472 (1991)
21. H. Hashimoto, T. Kakuchi, K. Yokota, *Synthesis of poly(dibenzo-19-crown-6) via cyclopolymerization of diepoxide*, Polym. Bull., **25**, 153 – 160 (1991)
20. 覚知豊次, 横田和明, 環化重合によるクラウンエーテル状環化ポリマーの合成とその機能, 有機合成化学協会誌, **48**, 1160 – 1114 (1990)
19. S. Mori, T. Kakuchi, A. B. Padias, H. K. Hall, Jr., *New Gem-Dicyanocyclobutane-Containing Hydroxyesters*, J. Polym. Sci., Part A: Polym. Chem., **28**, 551 – 558 (1990)

18. T. Kakuchi, T. Takaoka, K. Yokota, *Polymeric Chiral Crown Ethers, VI. Optical Resolution of α -Amino Acid by Polymers Incorporating 1,3:4,6-Di-O-benzylidene-D-mannitol residues*, Polym. J., **22**, 199 – 205 (1990)
17. K. Yokota, T. Kakuchi, H. Sasaki, H. Ohmori, *Asymmetric induction in the cyclopolymerization of divinyl ethers derived from (R)- or (S)-3,3'-dimethyl-1,1'-bi-2-naphthol*, Makromol. Chem., **190**, 1269 – 1275 (1989)
16. T. Kakuchi, T. Takaoka, K. Yokota, *Polymeric chiral crown ethers, 5 Synthesis of polymers by cyclopolymerization of divinyl ethers containing moieties deriving from L-tartaric acid, and the chiral recognition toward α -amino acids*, Makromol. Chem., **190**, 2449 – 2455 (1989)
15. T. Kakuchi, O. Kobayashi, D. Nakaya, K. Yokota, *Synthesis of Some Tailor-Made Poly(benzo-19-crown-6)s via Cyclopolymerization of Divinyl Ether with Hydrogen Iodide/Iodine Initiator*, Polym. J., **21**, 649 – 653 (1989)
14. T. Kakuchi, T. Hasegawa, H. Sasaki, H. Ohmori, K. Yokota, *Polymeric chiral crown ethers, 4 Substituent effects of methyl and phenyl groups in the 3,3'-positions on chiral recognition of poly(crown ether)s synthesized by cyclopolymerization of divinyl ethers derived from 1,1'-bi-2-naphthol*, Makromol. Chem., **190**, 2091 – 2097 (1989)
13. H. Hashimoto, A. Demachi, T. Nishimata, Y. Sasamura, K. Iida, N. Kaneko, N. Sakamoto, T. Kakuchi, K. Yokota, *Incorporation of a well-defined polyether side-chain into segmented poly(ether-urethane urea) and examination for blood-compatibility*, Angew. Makromol. Chem., **172**, 177 – 183 (1989)
12. T. Kakuchi, T. Takaoka, K. Yokota, *Polymeric chiral crown ethers, 3. Synthesis of polymers incorporating D-mannitol moieties via cyclopolymerization, and chiral recognition towards α -amino acids*, Makromol. Chem., **189**, 2007 – 2016 (1988)
11. T. Kakuchi, H. Sasaki, K. Yokota, *Polymeric chiral crown ethers, 2. Syntheses and chiral recognition of polymers consisting of (S)- or (R)-2,2'-binaphthyl-21-crown-6 units through cyclopolymerization of divinyl ethers*, Makromol. Chem., **189**, 1279 – 1285 (1988)
10. K. Yokota, T. Kakuchi, M. Nakayama, Y. Takada, *Synthesis of polymers with cryptand-like units via cyclopolymerization of divinyl ethers*, Makromol. Chem., Rapid Commun., **7**, 633 – 637 (1986)
9. K. Yokota, T. Kakuchi, Y. Taniguchi, Y. Takada, *Synthesis of polymers containing crown lactone units via cyclopolymerization in the presence of alkylaluminum chlorides*, Makromol. Chem., Rapid Commun., **6**, 155 – 161 (1985)
8. T. Kakuchi, K. Yokota, *Polymeric chiral crown ethers, 1. Synthesis of polymers with (S)-2,2'-binaphthyl-15-crown-4 and*

21-crown-6 units via cyclopolymerization of divinyl ethers, Makromol. Chem., Rapid Commun., **6**, 551 – 555 (1985)

7. K. Yokota, T. Kakuchi, T. Iiyama, Y. Takada, *Studies on Cyclopolymerization in the Presence of Alkylaluminum Chlorides. VII. Cyclopolymerizations of Acrylates and Methacrylates Containing Oligooxyethylene Units in the 11-20-Membered-Ring Region*, Polym. J., **16**, 145 – 150 (1984)

6. K. Yokota, H. Hashimoto, T. Kakuchi, Y. Takada, *Synthesis of polymers with thiacyclopolymerization of diespisulfides*, Makromol. Chem., Rapid Commun., **5**, 767 – 770 (1984)

5. K. Yokota, H. Hashimoto, T. Kakuchi, Y. Takada, *Synthesis of polymers with crown ether units via cyclopolymerization of diepoxides*, Makromol. Chem., Rapid Commun., **5**, 115 – 161 (1984)

4. K. Yokota, T. Kakuchi, A. Nanasawa, J. Iwata, Y. Takada, *Studies of the Cyclopolymerization in the Presence of Alkylaluminum Chlorides. VI. Cyclopolymerizations of 2-(o-Allylphenoxy)ethyl Methacrylate and the Higher Homologues in the 11-19-Membered-Ring Region*, Polym. J., **14**, 509 – 516 (1982)

3. T. Kakuchi, K. Yokota, Y. Takada, *Studies of the Cyclopolymerization in the Presence of Alkylaluminum chlorides. IV. Polymerizations of o-Vinylphenyl Acrylate*. Polym. J., **11**, 7 – 13 (1979)

2. K. Yokota, T. Kakuchi, Y. Takada, *Studies of the Cyclopolymerization in the Presence of Alkylaluminum Chlorides. III. Cyclopolymerizations of o-Allylphenyl Acrylate and 2-(o-Allylphenoxy)ethyl Acrylate with p-chlorostyrene*, Polym. J., **10**, 19 – 25 (1978)

1. K. Yokota, T. Kakuchi, Y. Takada, *Studies of the Cyclopolymerization in the Presence of Alkylaluminum Chlorides. II. Polymerizations of 2-(o-Allylphenoxy)ethyl Acrylate and 4-(o-Allylphenoxy)butyl Acrylate*, Polym. J., **8**, 495 – 505 (1976)