REFERENCES

Arduini, A., Pochini, A., Reverberi, S., and Ungaro, R. (1986). The Preparation and Properties of a New Lipophilic Sodium Selective Ether ester Derived from *p-t*-butylcalix[4]arene. Tetrahedron 42, 2089-2099.

Bohmer, V. (1995). Calixarenes, Macrocycles with (Almost) Unlimited Possibilities. Angrew Chemistry International Edition England. 34, 713-745.

Burke, W. J. (1949). 3,4-Dihydro-1,3,2H-Benzoxazines. Reaction of *p*-Substituted Phenols with N,N-Dimethylolamines. Journal of American Chemical Society 71, 609-612.

Burke, W. J., Bishop, J. L., Mortensen Glenniw, E. L., and Bauer, W. N. (1965). Journal of Organic Chemistry 30,3423-3427.

Chang, Y.-C., and Frank, C.W. (1996). Grafting of Poly(γ-benzyl-L-glutamate) on Chemically Modified Silicon Oxide Surfaces. Langmuir 12, 5824-5829.

Chiang, C., and Ishida, H. (1980). The Structure of γ-Aminopropyltriethoxysilane on Glass Surfaces. Journal of Colloid and Interface Science 74, 396-404.

Cram, D. J. (1988). The Design of Molecular Hosts, Guests, and Their Complexes (Nobel Lecture). Angrew Chemistry International Edition England 27, 1009-1020.

Cram, D.J. (1992). Molecular Container Compounds. Nature 356, 29-36.

Ernst, J. R., Huis, R., Gary R. H., and Nicoletta C. M. (1985) Solid-State Silicon-29 and Carbon-13 NMR Spectroscopy Using Cross-Polarization and Magic-Angle-Spinning Techniques to Characterize 3-Chloropropyl

and 3-Aminopropyl-Modified Silica Gels. Journal of Colloid and Interface Science 103, 554-560.

Harada, A., Suzuki, S., Okada, M. and Kamachi, M. (1996). Preparartion and Characterization of Inclusion Complexes of Polyisobutylene with Cyclodextrins. Macromolecules 29, 5611-5614.

Harland, C. E. (1994) Ion Exchange : Theory and Practice. Cambridge University Press, Cambridge.

Hayashita, T., and Bartch, R. A. (1991). Competitive Sorption of Alkali-Metal and Alkaline-Earth-Metal Cations by Carboxylic Acid Resins Containing Acyclic or Cyclic Polyether Units. Analytical Chemistry 63, 1847-1850.

Hayashita, T., Goo, M. J., Lee, J. C., Kim, J. S., Krzykawski, J., and Bartch, R. A. (1990). Selective Sorption of Alkali-Metal Cations by Carboxylic Acid Resins Containing Acyclic or Cyclic Polyether Units. Analytical Chemistry 62, 2283-2287.

Hayashita, T., Lee, J. H., Chen, S., and Bartch, R. A. (1991). Selective Column Concentration of Alkali-Metal Cations with a Crown Ether Carboxylic Acid Resin. Analytical Chemistry 63, 1844-1847.

Ishida, H., and Allen, D. J. (1996). Physical and Mechanical Characterization of Near-Zero Shrinkage Polybenzoxazine. Journal of Polymer Science : Part B : Polymer Physic 34, 1019-1030.

Ishida, H., and Allen, D. J. (1996). Mechanical Characterization of Copolymers Based on Benzoxazine and Epoxy. Polymer 37, 20, 4487-4495.

Ishida, H., and Dunkers, J. (1995). Vibrational assignments of 3-alkyl-3,4-dihydro-6-methyl-2H-1,3-benzoxazines in the Fingerprint Region. Spectrochimica Acta 51A, 855-867.

Ishida, H., and Krus, C. M. (1998). Synthesis and Characterization of Structurally Uniform Model Oligomer of Polybenzoxazine. Macromolecules 31, 2409-2418.

Ishida, H., and Low, H. Y. (1998). Synthesis of Benzoxazine Functional Silane and Adhesion Properties of Glass Fiber Reinforced Polybenzoxazine Composites. Journal of Applied Polymer Science 69, 2559.

Ishida, H., and Rodriguez, Y. (1995). Curing Kinetics of a new Benzoxazine-based Phenolic Resin by Differential Scanning Calorimetry. Polymer 36, 3151-3158.

Morrison, R. T. and Boyd, R. N. (1983) Organic Chemistry. 4th ed. Boston, London, Sydney, toronto : Allyn and Bacon, Inc.

Nagae, S., Suda, Y., Inaki, Y., and Takemoto K. (1989). Application of Nucleic Acid Base Containing Polymers to High Performance Liquid Chromatography. Journal of Polymer Science Polymer Chemistry 27.

Nagae, S., Miyamoto, T., Inaki, Y., and Takemoto, K. (1989). Immobilization of Nucleic Acid Bases on Silica Gel and Application to HPLC for Selective Separation of Nucleosides. Polymer 21, 19-33.

Ning, X., and Ishida, H. (1994). Phenolic Materials via Ring-Opening Polymerization : Synthesis and Characterization of Bisphenol-A Based Benzoxazines and Their Polymers. Journal of Polymer Science : Part A : Polymer Chemistry 32, 1121-1129.

Nishiyama, N., Shick, R., and Ishida, H. (1991). Adsorption Behavior of a Silane Coupling Agent on Colloidal Silica Studied by Gel Permeation Chromatography. Journal of Colloid and Interface Science 143, 146-156.

Pedersen, C. J. (1967). Cyclic Polyethers and Their Complexes with Metal salts. Journal of American Society 89, 7017-7036.

Pedersen, C. J. (1968). Ionic Complexes of Macrocyclic Polyethers. Fed. Proc. Fed. Am. Chem. Soc. 27, 1305-1309.

Pedersen, C. J. (1988). The Discovery of Crown Ethers (Noble Lecture). Angrew Chemistry International Edition England 27, 1021-1027.

Pedersen, C. J., and Frensdorff, H. K. (1972). Macrocyclic Polyethers and Their Complexes. Angrew Chemistry International Edition England 11, 16-25.

Phongtamrug, S. (1997). Study on the Benzoxazine Monomers and Their Application for Ion Extraction Material. Master's Thesis, Chulalongkorn University.

Pluddemann, E. P. (1991). Silane coupling Agent. 2nd ed. Plenum Press, New York.

Pulpoka, B., Asfari, Z., and Vicens, J. (1996). Synthesis of Unsymmetrical Calix[4]rene cryptand crown-6 in 1,3-alternate conformation. Tetrahedron Letters 37, 6315-6318.

Siripattanasarakit, W. (1996). A Novel Type of Ion Extraction Material using Host-Guest Properties of Polybenzoxazine Local Structure. Master's Thesis, Chulalongkorn University.

Ungaro, R., Arduini, A., Casnati, A., Pochini, A., and Ugozzoli, F. (1996). New Synthetic Receptors Based on Calix[4]arenes for the Selective Recognition of Ions and Neutral Molecules. Pure and Applied Chemistry. 68, 1213-1218.

Yamagishi, T., Tani, K., Shirano, K., Ishida, S., and Nakamoto, Y. (1996). Metal Cation Extraction Properties of Linear all-ortho Phenolic Oligomers. Journal of Polymer Science : Part A : Polymer Chemistry 34, 687-693.

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