



## REFERENCES

- Ball, P. (1994). Designing the Molecular World: Chemistry at the Frontier. New Jersey: Princeton University Press.
- Böhmer, V. (1995). Calixarenes, macrocycles with (almost) unlimited possibilities. Angew. Chem. Int. Ed. Engl., 34, 713-745.
- Chankvetadze, B., Endresz, G., and Blaschke, G. (1996). Charged cyclodextrin derivatives as chiral selectors in capillary electrophoresis. Chemical Society Reviews, 141-153.
- Chirachanchai, S., Laobuthee, A., Phongtamrug, S., Siripattanasarakit, Ishida, H. (1999). A novel ion extraction material using host-guest properties of oligobenzoxazine local structure and benzoxazine monomer molecular assembly. Journal of Applied Polymer Science, 77, 2561-2568.
- Diamond, D., and McKervey, M.A. (1996). Calixarene-based sensing agents. Chemical Society Reviews, 15-24.
- Dietrich, B., Viout, P., and Lehn, J.M. (1993). Macrocyclic Chemistry: Aspect of Organic and Inorganic Supramolecular Chemistry. New York: VCH Verlagsgesellschaft mbH, Weinheim VCH.
- Easton, C.J., and Lincoln, S.F. (1996). Chiral discrimination by modified cyclodextrins. Chemical Society Reviews, 163-170.
- Fischer, E. (1894). Ber. Dtsch. Chem. Ges., 27, 2985.
- Fredericks, J.R., and Hamilton, A.D. (1996). Comprehensive Supramolecular Chemistry: Hydrogen Bonding Control of Molecular Self-Assembly: Recent Advances in Design, Synthesis, and Analysis. Pergamon.
- Hampton, P.D., Tong, W., Wu, S., and Duesler, E. (1996). Synthesis, X-ray structure and alkali-metal binding properites of a new hexahomotriazacalix[3]arene. J. Chem. Soc., Perkin Trans., 2, 1127-1130.

- Hiraoka, M. (1982). Crown Compounds: Their Characteristics and Applications. Tokyo: Kodansha.
- King, F.E., and Sherred, J.A. (1942). A preparation of 8-hydroxyquinoline. J. Chem. Soc., 415-416.
- Kopf, P.W. (1985). Encyclopedia of Polymer Science and Engineering, 11.
- Kroschwitz, J.I., and Howegrant, M. (Eds.). (1995). Inclusion compounds. Encyclopedia of Chemical Technology, 14, 122-154.
- Lehn, J.M. (1995). Supramolecular Chemistry. Germany: VCH Weinheim .
- Long, L, and Burger, A. (1941). Structural models of cortin compounds in the naphthalene series. J. Org. Chem., 6, 852-857.
- Pedersen, C.J. (1967). Cyclic polyethers and their complexes with metal salts. J. Am. Chem. Soc., 89, 7017-7036.
- Phongtamrung, s. (1998). Study on the benzoxazine monomers and their application for ion extraction material. Master's Thesis, Chulalongkorn University.
- Pochini, A., Ungaro, R. Comprehensive Supramolecular Chemistry: Calixarenes and Related Hosts. Pergamon.
- Siripattanasarakit, W. (1997). A novel type of ion extraction material using host-guest properties of polybenzoxazine local structure. Master's Thesis, Chulalongkorn University.
- Shinkai, S. (1993). Calixarenes: the third generation of supramolecules. Tetrahedron Report Number 340, 49 (40), 8933-8968.
- Surrey, A.R. (1955). Pyocyanine. Org. Syn. Coll., 3, 753-756.
- Takolpuckdee, P. (2000). The origin of host-guest interaction in metal/benzoxazine systems. Master's Thesis, Chulalongkorn University.
- Techakamolsuk, P. (1999). Synthesis and application of structurally controlled benzoxazine as a host-guest compound. Master's Thesis, Chulalongkorn University.

Vögtle, F. (1993). Supramolecular Chemistry: an Introduction. England:  
John Wiley&Sons.

Yamagishi, T., Tani, K., Shirano, K., Ishida, S., and Nakamoto, Y. (1996).  
Metal cation extraction properties of linear all-ortho phenolic  
oligomers. J. of Polym. Sci.: Part A: Polym. Chem., 34, 687-693.

## CURRICULUM VITAE

**Name:** Ratinan Pacharaprakiti

**Date of Birth:** November 1, 1978

**Nationality:** Thai

**University Education:**

1995-1998 Bachelor Degree of Material Science,  
Chulalongkorn University, Bangkok, Thailand.

