
CURRICULUM VITAE

Personal Data

Name and Surname Thammarat Aree
Birthday 30.3.1971
Place of Birth Rayong, THAILAND

Education

Primary School 1978–1983 Watsaranarthammaram in Rayong
Secondary School 1984–1986 Klaeng “Wittayasathaworn” in Rayong
High School 1987–1989 Traimit Wittayalai in Bangkok

Study in Chemistry

Bachelor Degree 1990–1993 Chulalongkorn University in Bangkok
(Scholarship awarded by the Institute for the Promotion
of Teaching Science and Technology, IPST)

Master Degree 1994–1996 Chulalongkorn University in Bangkok
(Scholarship awarded by the Institute for the Promotion
of Teaching Science and Technology, IPST)

Thesis “Studies of Optimized and Electronic Structures of
Endohedral and Exohedral Lithium–Buckminsterfullerene
Complexes by Quantum Chemical Calculations”,
supervised by Assoc. Prof. Dr. Supot Hannongbua

Doctoral Degree 1997–2000 Free University of Berlin
(Scholarship awarded by the Institute for the Promotion
of Teaching Science and Technology, IPST)

Thesis “X-Ray Crystallographic and Neutron Scattering Studies
on Hydration Dynamics and Solubility
of Methylated Cyclodextrins”

List of Publications

1. T. Aree, J. Jacob, W. Saenger and H. Hoier. Crystal Structure of α -Cyclodextrin–Acetonitrile Hexahydrate. *Carbohydr. Res.*, **307**:191–197, 1998.
2. T. Aree, W. Saenger, P. Leibnitz and H. Hoier. Crystal Structure of Heptakis(2,6-di-*O*-methyl)- β -Cyclodextrin Dihydrate: a Water Molecule in an Apolar Cavity. *Carbohydr. Res.*, **315**:199–205, 1999.

T. Aree, W. Saenger, P. Leibnitz and H. Hoier. Erratum to “Crystal Structure of Heptakis(2,6-di-*O*-methyl)- β -Cyclodextrin Dihydrate: a Water Molecule in an Aposar Cavity” [Carbohydrate Research 315 (1999) 199–205]. *Carbohydr. Res.*, **318**:201, 1999.
3. T. Aree, H. Hoier, B. Schulz, G. Reck and W. Saenger. Crystal Structure of Heptakis(2,6-di-*O*-methyl)- α -Cyclodextrin–Acetonitrile Dihydrate: a Channel Formed by Methyl Groups Harbors a Chain of Five Partially Occupied Water Sites. *Carbohydr. Res.*, **320**:120–128, 1999.

T. Aree, H. Hoier, B. Schulz, G. Reck and W. Saenger. Erratum to “Crystal Structure of Heptakis(2,6-di-*O*-methyl)- α -Cyclodextrin–Acetonitrile Dihydrate: a Channel Formed by Methyl Groups Harbors a Chain of Five Partially Occupied Water Sites” [Carbohydrate Research 320 (1999) 120–128]. *Carbohydr. Res.*, **323**:244–253, 2000.
4. T. Aree, I. Usón, B. Schulz, G. Reck, H. Hoier, G. M. Sheldrick and W. Saenger. Variation of a Theme: Crystal Structure with Four Octakis(2,3,6-tri-*O*-methyl)- γ -Cyclodextrin Molecules Hydrated Differently by a Total of 19.3 Water. *J. Am. Chem. Soc.*, **121**:3321–3327, 1999.
5. T. Aree, H. Hoier, B. Schulz, G. Reck and W. Saenger. Novel Type of Thermostable Channel Clathrate Hydrate Formed by Heptakis(2,6-di-*O*-methyl)- β -Cyclodextrin·15H₂O – a Paradigm of the Hydrophobic Effect. *Angew. Chem. Int. Ed. Engl.*, **39**:897–899, 2000.
6. T. Aree, H. Hoier, B. Schulz, G. Reck and W. Saenger. Crystal Structure of Octakis(2,3,6-tri-*O*-methyl)- γ -Cyclodextrin·4.5H₂O: Evidence for Conformational

Flexibility of Permethylated Cyclodextrins. *Carbohydr. Res.*, **328**:399–407, 2000.

Participation in Conferences

Oral presentation: T. Aree, H. Hoier, and W. Saenger. From Host to Guest: Heptakis(2,6-di-*O*-methyl)- β -Cyclodextrin \cdot 15H₂O as Guest in a Semiclathrate Host Formed by 15 Water Molecules. *XXIV International Symposium on Macrocyclic Chemistry: ISMC'99*, Barcelona, Spain, July 18–23, 1999.

Poster presentation: T. Aree and W. Saenger. Crystal Structure of Heptakis(2,6-di-*O*-methyl)- β -Cyclodextrin \cdot 15H₂O: a Thermostable Channel Clathrate Hydrate. *10th International Cyclodextrin Symposium: CD2000*, Michigan, USA, May 21–24, 2000.