【无机化学论坛】Synthetic porphyrinoidic chemistry

报告人: **Prof. Atsuhiro Osuka**

湖南师范大学化学与化工学院

时间：2023 年 09 月 18 日（周一） 下午 15:00-16:30

地点：北京大学化学学院 C 区 CB215 报告厅.

报告摘要

We found that Ag(I)-promoted meso-meso coupling reaction of meso-free Zn(II) porphyrins. On the basis of this reaction, extremely long porphyrin arrays and well conjugated porphyrin tapes are explored. In addition, we found that meso-aryl-substituted expanded porphyrins, which have been shown to be effective in forming various electronic states such as Mobius aromatic and antiaromatic molecules, and stable radicals. Chemistry of B(III) subporphyrins will be also introduced.

Curriculum Vitae (Atsuhiro Osuka, 2022/5/10)

Persona data

Date of Birth; October 16, 1954
Place of Birth; Gamagori, Aichi Prefecture, Japan
Nationality; Japan

Higher Education

Bs. C.; Chemistry, Kyoto University March 1977
Ph. D.; Organic Chemistry, Kyoto University, July 1982
(Supervisor, Prof. K. Maruyama).

Professional Experience

August 1979 — January 1984; Assistant Professor
Department of Chemistry, Faculty of Science, Ehime University, Matsuyama, Japan

February 1984 — May 1987; Assistant Professor
Department of Chemistry, Faculty of Science, Kyoto University.

June 1987 — March 1996; Associate Professor
Department of Chemistry, Faculty of Science, Kyoto University

April 1996 —March 2020; Professor
Department of Chemistry, Graduate School of Science, Kyoto University

December 2021—present; Distinguished Professor
College of Chemistry and Chemical Engineering, unan Normal University

Award

The Chemical Society of Japan Award for Young Chemist in 1988
"Studies on Photo-induced Electron Transfer Reactions of Conformationally Restricted Porphyrin Systems—Synthesis and Their Physical Properties"

The Japanese Photochemistry Association Award in 1999
"Construction of Artificial Photosynthetic Reaction Centers and Mechanistic Studies on Photo-induced Charge Separation Electron-Transfer Processes"

NOZOE Memorial Lectureship Award at 13th International Symposium of Novel Aromatic Compounds (ISNA-13) in 2009
"Exploration of Novel Porphyrinoids with Interesting Electronic Properties: Aromaticity and Topology"

The Chemical Society of Japan Award in 2010
"Exploration and Development of Novel Porphyrinoids with Intriguing Structural and Electronic Properties"

Robert B. Woodward Award in Porphyrin Chemistry. For Lifetime Achievements in the Field of Porphyrin Chemistry; Ninth International Conference on Porphyrins and Phthalocyanines at Nanjing at China in 2016.
"Synthetic Porphyrinoid Chemistry"

The Medal with Purple Ribbon in 2019

Publication Record (November, 2021)

Original Papers	794
Reviews and Accounts	50
Book Chapters	11