

Autobiography of Shinsaku Fujita



Shinsaku Fujita was born in Kita-Kyushu City (at that time, Tobata City), Japan in 1944. He received his undergraduate training at Kyoto University. After earning a Master's degree in 1968, he started as a research instructor and received a Dr. Eng. degree at Kyoto University in 1972 under the guidance of Prof. Hitosi Nozaki. In 1972, he joined Ashigara Research Laboratories, Fuji Photo Film Co., Ltd., where he was engaged in the R&D of organic compounds for instant color photography and in the R&D of the organic reaction database until 1997. From 1997 to 2007, he has been Professor of Information Chemistry and Materials Technology at the Kyoto Institute of Technology. In 2007, he has started Shonan Institute of Chemoinformatics and Mathematical Chemistry as a private laboratory.

He was awarded the Synthetic Organic Chemistry Japan Award in 1982 and the Society of Computer Chemistry Japan Award in 2002.

His research interests have included reactive intermediates (nitrenes), synthetic organic chemistry (cyclophanes, strained heterocycles, and organic compounds for photography), organic photochemistry, organic stereochemistry (theoretical approach such as Fujita's stereoisogram approach), mathematical organic chemistry (combinatorial enumeration such as Fujita's USCI approach and Fujita's proligand method), and the organic reaction database (the concept of imaginary transition structures). His activities will be described in his account article of the present issue of

this journal under the title “Half-Century Journey from Synthetic Organic Chemistry to Mathematical Stereochemistry through Chemoinformatics”.

He is a member of the Chemical Society of Japan, the Society of Synthetic Organic Chemistry, Japan, the Kinki Chemical Society, Japan, the Society of Computer Chemistry, Japan, the American Chemical Society, and the International Academy of Mathematical Chemistry.

He is the developer of the XYMTEx system for drawing chemical structural formulas in TEX/LATEX documents (1993–). The present version (Version 5.01) is available from his homepage (<http://xymtex.com/>) with an on-line manual of 780 pages (<http://xymtex.com/fujitas3/xymtex/xym501/manual/xymtex-manualPS.pdf>). He is also the developer of LATEX utilities for typesetting Japanese classical literature (e.g., furigana, warigaki, and kanbun). He is the author of the on-line series of essays entitled “Jintan no Chomei-Kanban wo Yosuga ni Kyo-Meguri (Time-Space Trips in Kyoto by Jintan’s Guideposts)”, which has been written as a sample of using the LATEX utilities developed by himself (<http://xymtex.com/kyomeguri/index.html>).

He is the sole author of *Symmetry and Combinatorial Enumeration in Chemistry* (Springer–Verlag, Berlin–Heidelberg, 1991), *XYMTEx — Typesetting Chemical Structural Formulas* (Addison–Wesley Japan, Tokyo, 1997), *Computer–Oriented Representation of Organic Reactions* (Yoshioka Shoten, Kyoto, 2001), *Organic Chemistry of Photography* (Springer–Verlag, Berlin–Heidelberg, 2004), *Diagrammatical Approach to Molecular Symmetry and Enumeration of Stereoisomers, Mathematical Chemistry Monographs Series Vol. 4* (Kragujevac University, Kragujevac, 2007), *Combinatorial Enumeration of Graphs, Three-Dimensional Structures, and Chemical Compounds, Mathematical Chemistry Monographs Series Vol. 15* (Kragujevac University, Kragujevac, 2013), *Mathematical Stereochemistry* (Walter de Gruyter, Berlin–Boston, 2015), and several books on TEX/LATEX. His homepage on World Wide Web is located at <http://xymtex.com/>.