

Professor Bunsho OHTANI--deleted

Subjects: Others | Chemistry, Physical

Contributor: Bunsho Ohtani

The research work on photocatalysis by Professor Ohtani started in 1981 when he was a Ph. D. course student in Kyoto University. Since then he has been studying photocatalysis and related topics for more than 30 years and published more than 290 original papers (h-index: 67) and two single-author books. After gaining his Ph. D. degree from Kyoto University in 1985, he became an assistant professor in the university. In 1996, he was promoted to an associate professor in Division of Chemistry, Graduate School of Science, Hokkaido University and was then awarded a full professor position in the Catalysis Research Center (presently Institute for Catalysis), Hokkaido University in 1998. For the education of graduate students, Professor Ohtani's laboratory has belonged to the Graduate School of Environmental Science, Hokkaido University since 1999. He was awarded 2005 Scientific Achievement Award of The Electrochemical Society of Japan, The Japanese Photochemistry Association Award 2006, Catalysis Society of Japan Award for 2013, The Japanese Photochemistry Association Lectureship Award (2017) and The Award of The Electrochemical Society of Japan (Takei Award), 2018.

Keywords: photocatalysis ; semiconductor materials ; electron-trap distribution

Title: Professor, Ph. D.

Affiliation: Institute for Catalysis, Hokkaido University, North 21, West10, Sapporo 001-0021, Japan

Telephone: +81-11-706-9132

Facsimile: +81-11-706-9133

E-mail: ohtani@cat.hokudai.ac.jp

Website: <http://pcat.cat.hokudai.ac.jp/pcat/>

Education:

- BS: Hydrocarbon Chemistry, Kyoto University, March 24, 1979;
- MS: Hydrocarbon Chemistry, Kyoto University, March 23, 1981;
- Ph.D.: Hydrocarbon Chemistry, Kyoto University, March 23, 1985 (thesis title: Photocatalytic Redox Reactions by Aqueous Suspension of Titanium Dioxide)

Professional Appointments:

- Assistant Professor, Department of Hydrocarbon Chemistry, Kyoto University, February 16, 1985—March 31, 1996
- Associate Professor, Division of Chemistry, Graduate School of Science, Hokkaido University, April 1, 1996—August 31, 1998
- Professor, Catalysis Research Center (Institute for Catalysis from October 1, 2015), Hokkaido University, September 1, 1998—present
- Professor, Division of Environmental Materials Science, Graduate School of Environmental Science, Hokkaido University, February 1, 1999—present (concurrently)

Awards:

- 2005 Scientific Achievement Award of The Electrochemical Society of Japan
- The Japanese Photochemistry Association Award, 2006
- Catalysis Society of Japan Award for 2013

- The Japanese Photochemistry Association Lectureship Award 2017
- The Award of The Electrochemical Society of Japan (Takei Award), 2018

Plenary, Keynote and Invited Talks in International/Domestic Meetings

- Academic year of 2015: 14, 2016: 25, 2017: 25, 2018: 28, 2019: 30, 2020: > 10 times

Publications:

- Approximately 300 original papers in total (Web of Science). Hirsh index (h-index): 67
- Two single-authored books in Japanese

Selected Representative Publications:

- Nitta, A., Takase, M., Takashima, M., Murakami, N. and Ohtani, B. (2016) A Fingerprint of Metal-oxide Powders: Energy-resolved Distribution of Electron Traps. *Commun.*, **52**, 12096-12099.
- Ohtani, B. (2014) Revisiting the Original Works Related to Titania Photocatalysis: A Review of Papers in the Early Stage of Photocatalysis Studies. *Electrochemistry*, **82**(6), 414-425.
- Ohtani, B. (2014) Revisiting the Fundamental Physical Chemistry in Heterogeneous Photocatalysis: Its Thermodynamics and Kinetics. *Chem. Chem. Phys.*, **16**(5), 1788-1797.
- Ohtani, B. (2013) Titania Photocatalysis Beyond Recombination: A Critical Review. *Catalysts*, **3**(4), 942-953.
- Ohtani, B. (2010) Photocatalysis A to Z—What We Know and What We Don't Know. *Photochem. Photobiol. C Photochem. Rev.*, **11**(4), 157-178.
- Kowalska, E., Prieto-Mahaney, O.-O., Abe, R. and Ohtani, B. (2010) Visible-light-induced photocatalysis through surface plasmon excitation of gold on titania surfaces. *Chem. Chem. Phys.*, **12**(10), 2344-2355.
- Amano, F., Yasumoto, T., Prieto-Mahaney, O.-O., Uchida, S., Shibayama, T. and Ohtani, B. (2009) Photocatalytic Activity of Octahedral Single-Crystalline Mesoparticles of Anatase Titanium(IV) Oxide. *Commun.*, **45**, 2311-2313.
- Ohtani, B. (2008) Preparing Articles on Photocatalysis—Beyond The Illusions, Misconceptions and Speculation. *Lett.*, **37**(3), 217-229.

Retrieved from <https://encyclopedia.pub/entry/history/show/7644>