CV Submission

Keiichi Tomishige
Born in Saga in 1965.
BA Science from The University of Tokyo in 1990.
MSc Science from The University of Tokyo in 1992.
PhD Science from The University of Tokyo in 1997.
Research Associate, Graduate School of Engineering, The University of Tokyo in 1994
Lecturer, Graduate School of Engineering, The University of Tokyo in 1999
Lecturer, Institute of Materials Science, University of Tsukuba in 2001
Associate Professor, Graduate School of Pure and Applied Sciences, University of Tsukuba in 2004
Professor, School of Engineering, Tohoku University in 2010
Email: tomishige@tohoku.ac.jp

PROFESSIONAL MEMBERSHIP/AWARDS

- Member of Catalysis Society of Japan
- Member of Chemical Society of Japan
- Member of the American Chemical Society
- Member of the Royal Society of Chemistry, FRSC
- Associate Editor of Green Chemistry
- Editorial board, Applied Catalysis A: General
- International Advisory Board, ChemCatChem
- Editorial Advisory Board, ACS Omega
- Editorial Board, Catalysis Surveys from Asia

SELECT RECENT PUBLICATIONS

1. **Thermodynamic and Catalytic Insights into Non-Reductive Transformation of CO_2 with Amines into Organic Urea Derivatives**
M. Yabushita, R. Fujii, Y. Nakagawa, K. Tomishige *ChemCatChem*, 2024, **16**, e202301342

2. **Direct Esterification of Alkylcarbamic Acids with Alcohols over CeO_2 Catalyst**
S. Mihara, M. Yabushita, Y. Nakagawa, K. Tomishige *ChemSusChem*, 2024, **17**, e202301436

3. **Comparative Study between 2-Furonitrile and 2-Cyanopyridine as Dehydrants in Direct Synthesis of Dialkyl Carbonates from CO_2 and Alcohols over Cerium Oxide Catalyst**
W. Sun, P. Li, M. Yabushita, Y. Nakagawa, Y. Wang, A. Nakayama, K. Tomishige *ChemSusChem*, 2023, **16**, e202300768

4. **Improvement of Stability of CeO_2–Based Catalysts by Mn Doping for the Synthesis of 2-Imidazolidinone from Ethylenediamine Carbamate**
R. Fujii, M. Yabushita, Y. Li, Y. Nakagawa, K. Tomishige *ACS Catalysis*, 2023, **13**, 11041−11056

5. **Continuous Flow Synthesis of 2-Imidazolidinone from Ethylenediamine Carbamate in Ethylenediamine Solvent over the CeO_2 Catalyst: Insights into Catalysis and Deactivation**
R. Fujii, M. Yabushita, D. Asada, M. Tamura, Y. Nakagawa, A. Takahashi, A. Nakayama, K. Tomishige *ACS Catalysis*, 2023, **13**, 1562−1573

6. **Direct synthesis of polycarbonate diols from atmospheric flow CO_2 and diols without using dehydrating agents**

Y. Gu, M. Tamura, Y. Nakagawa, K. Nakao, K. Suzuki, K. Tomishige, *Green Chemistry*, 2021, **23**, 5786-5796

7. **Direct dimethyl carbonate synthesis from CO_2 and methanol catalyzed by CeO_2 and assisted by 2-cyanopyridine: a cradle-to-gate greenhouse gas emission study**
H. Ohno, M. Ikhlayel, M. Tamura, K. Nakao, K. Suzuki, K. Morita, Y. Kato, K. Tomishige, Y. Fukushima, *Green Chemistry*, 2021, **23**, 457-469