

PhD Students Supervised to Date

Koyo Norinaga

Kyushu University

Name (PhD Year)	PhD Thesis Title	Current Affiliation
Zhang Lixin (2013)	A study on the decomposition characteristics of tar derived from low temperature gasification of brown coal over coexisting char	Xi'an Thermal Power Research Institute Co., Ltd.
Huamei Yang (2015)	Mechanistic study on the gas phase reactions of multi-component mixtures derived from fast pyrolysis of cellulose and lignin	Xuzhou University of Technology, School of Materials and Chemical Engineering
Narumon Thimthong (2015)	Detailed chemical kinetic modeling study on gas phase partial oxidation and steam reforming of species released during biomass pyrolysis	DIC Corporation
Chengyi Li (2015)	A study on modelling and simulation on reacting flow included in thermochemical conversion process of coal	China Tianchen Engineering Corporation (TCC)
Lu Zhang (2017)*	Studies on Chemical Structural Change of Pyrolyzing Coal and Real-time Analysis of Volatiles	Not publicly confirmed
Yuki Furutani (2018)*	Detailed Chemical Kinetic Modeling of Primary and Secondary Pyrolyses of Lignin	Toshiba Corporation

*Supervised by K. Norinaga until his move to Nagoya University; Ph.D. completed at Kyushu University under Prof. Jun-ichiro Hayashi (Lu Zhang) / Prof. Seong-Uk Yun (Yuki Furutani).

Nagoya University

Name (PhD Year)	PhD Thesis Title	Current Affiliation
Zhang Lijuan (2022)	Utilization of lignin to obtain olefin and aromatic compounds through hydrogenation and subsequent fast pyrolysis processes	Shanghai Jiao Tong University
Thuppati Upender Rao (2022)	Studies on the heterogeneous catalytic process for production of liquid fuels and fine chemicals from hemicellulose derived furfural and furfuryl alcohol	NIPPON SHOKUBAI CO., LTD.
Lin Yixiong (2022)	Numerical Study on Chemical Reactions and Transport Phenomenon in The Solid Catalyst Fixed Bed for Methanation of Carbon Dioxide and Dry Reforming of Methane	Fuzhou University, College of Chemical Engineering
Yuki Hata (2023)	Study on coal reactivity with molecular structural analysis toward developing coke manufacturing technology	Nippon Steel Corporation
Keita Katano (2023)	Studies on detailed composition and structure analysis of heavy oil using Fourier transform ion cyclotron resonance mass spectrometry	Japan Petroleum and Carbon Neutral Fuels Energy Center (JPEC)
Li Qiao (2024)	Process Design and Optimization towards the Developing Energy-efficient Technologies for Carbon Dioxide Capture and Utilization (CCU)	China Datang Corporation Ltd. (China Datang Group), China

Name (PhD Year)	PhD Thesis Title	Current Affiliation
Tailin Li (2025)	A Study on the Analysis and Prediction of Thermochemical Conversion Processes of Solid Carbonaceous Fuels Based on Detailed Chemical Kinetic Models	BASF (China)
Chopendra G. Wasnik (2025)	Studies on Heterogeneous Catalysts and Process Simulation for the Development of a Methanation Process	Okinawa Institute of Science and Technology (OIST)
Dai Rongchi (2026)	A Study on the Direct Electrochemical Reduction of Amine-Absorbed CO ₂ toward Proposing an Integrated CO ₂ Capture-Electroreduction Process (ICCE)	PetroChina
Shengwen Xiao (2026)	Analytical and Experimental Study of Cryogenic CO ₂ Deposition for Cold-Energy-Assisted Carbon Capture	Nagoya University
Gi-Dong Park (2026)	Studies on Electrochemical Carbon Dioxide Reduction over N-Doped Carbon-Supported Ni-Based Single- and Dual-Atom Catalysts	KITECH (Korea Institute of Industrial Technology)