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Prof. Takao Masuda got his master degree in 1981 and Ph.D. in 1988 from Kyoto University, Japan. In 1982, he joined as assistant professor in Kyoto University, 1982, and was promoted to an associate professor in 1994. He has moved to Hokkaido University as a full professor in 2001. He was vice dean of graduate school of chemical science and engineering (2012-2013), vice dean of engineering faculty of the university (2014-2016), and is dean of engineering faculty (2017-now).

He served the board members of the societies, such as director of the Japan association of zeolite (2008-2009), head of chemical reaction engineering division of the society of chemical engineers, Japan (2008-2009), directors of the chemical society of Japan (2009-2010) and of the catalysis society of Japan (2010-2011), president of the Japan association of zeolite (2014-2015), vice president of the Japan petroleum institute (2016-2017). He is also director of the Japan petroleum institute (2018-now).

He received the Catalysis Society of Japan Award for Young Researchers in 1996, the Society of Chemical Engineers Japan Award for Outstanding Research Achievement in 2005, the Catalysis Society of Japan Award (Academic field) in 2012, and the Japan petroleum institute Award (Academic field) in 2017,.

His major is chemical reaction engineering with solid catalysts. His recent research projects especially focus on biomass-refinery of unused inedible biomass wastes to produce petrochemical materials, upgrading extra-heavy oil to lighter fuels using water as hydrogen resource, and preparation of nano-sized zeolite crystals and MOF for novel uses as catalysts and adsorbents.