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# Hayato Masuda

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## Education

Doctor of Engineering	Mar. 2016	Graduate school of Engineering, Kobe University (Aug. 1, 2013-Oct. 1, 2013) Faculty of Chemical and Process Engineering Warsaw University of Technology, Poland
Bachelor of Engineering	Mar. 2011	Kobe University

## Employment

Apr. 2016-present      Research Assistant Professor,  
School of Food and Nutritional Sciences,  
Department of Food Science and Biotechnology,  
University of Shizuoka

Membership of academic society  
The Society of Chemical Engineers, Japan  
The Society of Rheology, Japan  
Japan Society of Food Engineering, Japan

## Award

2016	Organization for Membrane and Film Technology, Poster award (Mar. 17, 2016)
2015	The Society of Chemical Engineers, Japan Fluid and Particle Processing Division Presentation award on “The effective viscosity and shear rate for a Carreau model fluid in a Taylor-Couette flow reactor” (Sep. 10, 2015) Kobe University Premium Award (Feb. 2015)

## Paper List

### Journals

1. H. Masuda, T. Horie, R. Hubacz, M. Ohta, N. Ohmura,  
Numerical Analysis of the Flow of Fluids with Complex Rheological Properties in a Couette–Taylorflow Reactor, *Theoretical and Applied Mechanics Japan*, Vol.63, pp. 25–32, 2015
2. H. Masuda, T. Horie, R. Hubacz, N. Ohmura,  
Process Intensification of Continuous Starch Hydrolysis with a Couette–Taylor Flow Reactor, *Chemical Engineering Research and Design*, Vol. 91, Issue 11, pp.2259–2264, 2013
3. H. Masuda, W. Zheng, T. Horie, N. Ohmura,  
Enhancement of Gas Hold-Up with a Taylor Vortex Flow System Equipped with Ribs, *Journal of Chemical Engineering Japan*, Vol. 46, No. 1, pp. 27–31, 2013

### Proceedings

1. N. Yamashita, H. Masuda, T. Horie, N. Ohmura,  
Modelling for Transient Behaviours of Solid Dispersion in a Stirred Vessel, *Proc. of 15th European Conference on Mixing*, Saint Petersburg, Russia, 28 th Jun–3rd Jul., pp. 394–399, 2015
2. H. Masuda, T. Horie, R. Hubacz, N. Ohmura,  
Effects of Mixing on Starch Hydrolysis Using a Couette–Taylor Flow Reactor, *Proc. of International Symposium on Mixing in Industrial Processes VIII*, Melbourne, Australia, 14th–17th, Sep., pp. 58–59, 2014
3. H. Masuda, T. Horie, R. Hubacz, N. Ohmura,  
Numerical and Experimental Investigation of Continuous Starch Hydrolysis with a Couette–Taylor Flow Reactor, *Proc. of the 24th International Symposium on Transport Phenomena*, Yamaguchi, Japan, 1st–5rd, Nov., pp. 402–407, 2013
4. H. Masuda, T. Horie, R. Hubacz, N. Ohmura,  
Process Intensification of Continuous Starch Hydrolysis with a Taylor–Couette Flow Reactor, *Proc. of 14th European Conference on Mixing*, Warsaw, Poland, 10th–13th, Sep., pp. 293–298, 2012
5. H. Masuda, S. Matsuka, T. Horie, R. Hubacz, N. Ohmura,  
Continuous Starch Gelatinization and Hydrolysis with a Taylor–Couette Flow Reactor, *Proc. of the 3rd International Congress on Green Process Engineering (GPE 2011)*, Kuala Lumpur, Malaysia, 6th–8th, Dec., ID 209, 8 pages, 2011
6. H. Masuda, W. Zheng, T. Horie, N. Ohmura,  
Enhancement of Gas Holdup with a Taylor Vortex Flow System Equipped with Ribs, *Proc. of 1st International Symposium on Multiscale Multiphase Process Engineering (MMPE)*, Kanazawa, Japan, 4th–7th, Oct., P–46, 5 pages, 2011

### Invited talks

1. H. Masuda, Intensification of non-Newtonian fluid process with Taylor-Couette flow reactor, The Society of Chemical Engineers, Japan, Division of Chemical Reaction Engineering, Hokkaido, Japan, 8th, Sep., 2015