

Takafumi Horie

List of Publications by Citations

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Version: 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57
papers

194
citations

8
h-index

11
g-index

58
ext. papers

235
ext. citations

2.5
avg, IF

2.81
L-index

#	Paper	IF	Citations
57	Process intensification of continuous starch hydrolysis with a Couette-Taylor flow reactor. <i>Chemical Engineering Research and Design</i> , 2013 , 91, 2259-2264	5.5	20
56	Advances in Biological Liquid Crystals. <i>Small</i> , 2019 , 15, e1900019	11	17
55	Prediction of onset of Taylor-Couette instability for shear-thinning fluids. <i>Rheologica Acta</i> , 2017 , 56, 73-84	8.3	13
54	Synthesis of bimetallic SnPt-nanoparticle catalysts for chemoselective hydrogenation of crotonaldehyde: Relationship between Sn x Pt y alloy phase and catalytic performance. <i>Catalysis Today</i> , 2018 , 303, 241-248	5.3	12
53	Improvement of separation performance by fluid motion in the membrane module with a helical baffle. <i>Separation and Purification Technology</i> , 2018 , 198, 52-59	8.3	11
52	Intensification of hollow fiber membrane cross-flow filtration by the combination of helical baffle and oscillatory flow. <i>Journal of Membrane Science</i> , 2018 , 554, 134-139	9.6	10
51	Process development of starch hydrolysis using mixing characteristics of Taylor vortices. <i>Bioscience, Biotechnology and Biochemistry</i> , 2017 , 81, 755-761	2.1	9
50	Flow dynamics in Taylor-Couette flow reactor with axial distribution of temperature. <i>AIChE Journal</i> , 2018 , 64, 1075-1082	3.6	8
49	Effect of ultrasonic pretreatment on emulsion polymerization of styrene. <i>Ultrasonics Sonochemistry</i> , 2016 , 31, 337-41	8.9	8
48	Synthesis of thiol-capped gold nanoparticle with a flow system using organosilane as a reducing agent. <i>Tetrahedron Letters</i> , 2012 , 53, 4457-4459	2	8
47	Process Development for Ultrasonic Fracturing of Zirconium Phosphate Particles. <i>Journal of Chemical Engineering of Japan</i> , 2014 , 47, 124-129	0.8	7
46	Application of picene thin-film semiconductor as a photocatalyst for photocatalytic hydrogen formation from water. <i>Applied Catalysis B: Environmental</i> , 2016 , 192, 88-92	21.8	7
45	Hydrogen production for photocatalytic decomposition of water with urea as a reducing agent. <i>Catalysis Today</i> , 2018 , 307, 231-236	5.3	4
44	Flow and sedimentation characteristics of silica hard-shell microcapsule slurries treated with additives. <i>International Journal of Refrigeration</i> , 2019 , 106, 18-23	3.8	4
43	Prediction of Binder Saturation Profile in Convectively Dried Porous Material Wetted with Binder Solution. <i>Kagaku Kogaku Ronbunshu</i> , 2010 , 36, 449-456	0.4	4
42	Effect of geometrical configuration of reactor on a ZrP nano-dispersion process using ultrasonic irradiation. <i>Ultrasonics Sonochemistry</i> , 2019 , 52, 157-163	8.9	4
41	Enzymatic starch hydrolysis performance of Taylor-Couette flow reactor with ribbed inner cylinder. <i>Chemical Engineering Science</i> , 2021 , 231, 116270	4.4	4

40	Role of Al ³⁺ species in beta zeolites for Baeyer-Villiger oxidation of cyclic ketones by using H ₂ O ₂ as an environmentally friendly oxidant. <i>Catalysis Today</i> , 2018 , 307, 293-300	5.3	3
39	Liquid-Liquid two phase flow of millichannel with a dynamic mixer. <i>Chemical Engineering and Processing: Process Intensification</i> , 2011 , 50, 1-8	3.7	3
38	Effect of flow rate on temperature in a Bi ₂ O ₃ catalyst bed: Global enhancement by forced flow rate cycling. <i>Chemical Engineering Science</i> , 2008 , 63, 4981-4990	4.4	3
37	EFFECTS OF FABRICATION CONDITIONS ON SILICA HARD-SHELL MICROCAPSULES CONTAINING PHASE CHANGE MATERIALS 2018 ,		3
36	Preparation of Porous Titania by Sol-Gel Method Using Alkylketene Dimers as a Template. <i>Journal of Chemical Engineering of Japan</i> , 2017 , 50, 450-454	0.8	2
35	Effect of Temperature Change on Geometric Structure of Isolated Mixing Regions in Stirred Vessel. <i>International Journal of Chemical Engineering</i> , 2012 , 2012, 1-6	2.2	2
34	Dispersion of Floating Particles in a Taylor Vortex Flow Reactor. <i>Journal of Chemical Engineering of Japan</i> , 2010 , 43, 319-325	0.8	2
33	Characteristics of Continuous Emulsion Polymerization of Vinyl Acetate with a Compartment Reactor. <i>Journal of Chemical Engineering of Japan</i> , 2010 , 43, 70-75	0.8	2
32	Effect of Particle Motion in Isolated Mixing Regions on Mixing in Stirred Vessel. <i>Journal of Chemical Engineering of Japan</i> , 2009 , 42, 459-463	0.8	2
31	Effect of SnxPty Alloy Structures in SnPt Bimetallic Nanoparticle Catalysts on Catalytic Activity for Hydrogenation of Acetic Acid. <i>Journal of Chemical Engineering of Japan</i> , 2020 , 53, 383-388	0.8	2
30	Design and Fabrication of a Microreactor for High Temperature Catalytic Oxidation Using Forced Composition Cycling. <i>Kagaku Kogaku Ronbunshu</i> , 2004 , 30, 142-147	0.4	2
29	Oxidative Coupling of Propylene under the Condition of Forced Composition Cycling with a Microreactor. <i>Kagaku Kogaku Ronbunshu</i> , 2008 , 34, 102-107	0.4	2
28	Estimation of Binder Segregation in a Porous Slab from the Conductive Drying Rate Curve. <i>Kagaku Kogaku Ronbunshu</i> , 2011 , 37, 229-234	0.4	2
27	Effect of Solution Diffusion on Binder Segregation Model during Convective Drying of Porous Solid. <i>Kagaku Kogaku Ronbunshu</i> , 2011 , 37, 235-240	0.4	2
26	Measurement of Infrared Drying Rate of Coating by an Extended Temperature-Change Method. <i>Kagaku Kogaku Ronbunshu</i> , 2014 , 40, 50-55	0.4	2
25	Oxidative Coupling of Propane with a Two-Layered Catalyst Bed Reactor. <i>Chemical Product and Process Modeling</i> , 2009 , 4,	1.1	1
24	Correlative Method for Drying Rate Curves of Coated Film with Constant Temperature of Hot Air. <i>Kagaku Kogaku Ronbunshu</i> , 2009 , 35, 639-645	0.4	1
23	Kinetic Analysis of Syngas Formation from Carbon Dioxide (Dry Reforming of Methane with Carbon Dioxide) for Process Intensification. <i>Kagaku Kogaku Ronbunshu</i> , 2011 , 37, 128-133	0.4	1

22	Process Intensification of Continuous Emulsion Polymerization of Vinyl Acetate by a Method of Function Module Representation. <i>Kagaku Kogaku Ronbunshu</i> , 2011 , 37, 134-139	0.4	1
21	Impacts of the Surfactant Concentration on the Sedimentation Characteristics of Silica Hard-Shell Microcapsules Containing Phase Change Materials. <i>Journal of Chemical Engineering of Japan</i> , 2020 , 53, 431-437	0.8	1
20	Drying Model for Coating of Aqueous Solution of Plasticized Polymer. <i>Kagaku Kogaku Ronbunshu</i> , 2016 , 42, 68-75	0.4	1
19	Preparation of a Photoresponsive Tracer to Evaluate the Performance of Dry-Type Powder Photoreactors. <i>Journal of Chemical Engineering of Japan</i> , 2017 , 50, 710-715	0.8	1
18	Measurement of Drying Rate of Water-based Coat with Two Volatile Components by the Temperature-change Method. <i>Kagaku Kogaku Ronbunshu</i> , 2010 , 36, 64-69	0.4	1
17	Application to Slurry Slab of Binder Segregation Model during Convective Drying of Porous Solid. <i>Kagaku Kogaku Ronbunshu</i> , 2011 , 37, 432-440	0.4	1
16	Estimation of Coating Drying Rate on Different Base Films. <i>Kagaku Kogaku Ronbunshu</i> , 2013 , 39, 539-544	0.4	1
15	Thermal treatment of starch slurry in Couette-Taylor flow apparatus. <i>Chemical and Process Engineering - Inzynieria Chemiczna I Procesowa</i> , 2017 , 38, 345-361		0
14	Enhancement of Gas Hold-Up with a Taylor Vortex Flow System Equipped with Ribs. <i>Journal of Chemical Engineering of Japan</i> , 2013 , 46, 27-32	0.8	0
13	Application Method of Rate Based Model to Analysis of Dynamic Behavior of Stirred Tank Reactor for Phase Transfer Catalysis with the Third Liquid Phase. <i>Journal of Chemical Engineering of Japan</i> , 2017 , 50, 408-414	0.8	
12	Process Intensification of Emulsion Polymerization Using a Compartment Reactor. <i>Chemical Engineering and Technology</i> , 2012 , 35, 1273-1280	2	
11	Cutting-Edge Research at the Membrane Center in Kobe University in Japan. <i>Biotechnology and Biotechnological Equipment</i> , 2013 , 27, 3478-3484	1.6	
10	Gas Absorption Enhancement of Slug Flow in the Presence of Non-Porous Silica Fine Particles. <i>Journal of Chemical Engineering of Japan</i> , 2020 , 53, 409-413	0.8	
9	Estimation Method for Intrinsic Drying Rate of Fick-Type Coating. <i>Kagaku Kogaku Ronbunshu</i> , 2015 , 41, 387-391	0.4	
8	Models of Particle Exposure on the Dried Surface of Slurry Coating with Low Particle Concentration in Polymer Solution. <i>Kagaku Kogaku Ronbunshu</i> , 2017 , 43, 37-44	0.4	
7	Thermal Power Generated in a Wet Porous Slab by Dielectric Drying. <i>Kagaku Kogaku Ronbunshu</i> , 2010 , 36, 379-382	0.4	
6	Operation for Fine Particle Dispersion in Shear-Thinning Fluid in a Stirred Vessel. <i>Journal of Chemical Engineering of Japan</i> , 2012 , 45, 258-264	0.8	
5	Forced Motion of a Single Particle in Micron-sized Particle Dispersion. <i>Journal of the Society of Powder Technology, Japan</i> , 2021 , 58, 138-146	0.3	

- 4 Energy Saving Performances of the Internal Heat Integrated Batch Distillation for Non-Ideal Mixture. *Journal of Chemical Engineering of Japan*, **2019**, 52, 215-221 o.8
- 3 Using Motion Analysis to Evaluate Techniques for Whipping Heavy Cream by Hand. *Journal of Chemical Engineering of Japan*, **2018**, 51, 180-184 o.8
- 2 Economic Evaluation of Heat-Pump-Assisted Distillation Systems. *Kagaku Kogaku Ronbunshu*, **2018**, 44, 303-307 o.4
- 1 Estimation of Mutual Diffusion Coefficient as a Function of Moisture Content and Temperature from Coating Temperature History During Coating Drying. *Kagaku Kogaku Ronbunshu*, **2018**, 44, 153-160^{o.4}