

Yoshiyuki Komoda

List of Publications by Year in Descending Order

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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.

94
papers

548
citations

12
h-index

16
g-index

107
ext. papers

618
ext. citations

2
avg, IF

3.73
L-index

#	Paper	IF	Citations
94	Friction Factor Distribution at the Side Wall of a Turbulent Agitated Vessel with Baffles Using a MAXBLEND Impeller. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 1514-1522	3.9	
93	Drying rate of latex coating affected by the deformability of resin particles in convection drying.. <i>European Physical Journal E</i> , 2022 , 45, 2	1.5	
92	Enhancement of laminar mixing by an anchor impeller with rotationally reciprocating motion. <i>AIP Advances</i> , 2022 , 12, 015013	1.5	0
91	Topology and dynamics of streakline on the mixing boundary of two-dimensional chaotic flow induced by a rotationally reciprocating anchor impeller. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022 , 131, 104213	5.3	0
90	Rheological interpretation of the structural change of LiB cathode slurry during the preparation process. <i>Jcis Open</i> , 2022 , 5, 100038		1
89	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	
88	Rheological Analysis of Electrode Slurries for Secondary Battery. <i>Journal of the Society of Powder Technology, Japan</i> , 2021 , 58, 178-185	0.3	
87	Representative shear rate for particle agglomeration in a mixing tank. <i>Chemical Engineering Research and Design</i> , 2021 , 171, 73-79	5.5	1
86	Effect of Baffle Clearance on Scale Deposition in an Agitated Vessel. <i>ACS Omega</i> , 2021 , 6, 24070-24074	3.9	1
85	Effect of Additives on the Rapid Destruction Process of Particle Aggregates in a Startup Shear Flow. <i>Journal of Chemical Engineering of Japan</i> , 2020 , 53, 422-430	0.8	2
84	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	
83	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
82	Dynamic Characteristics of Calcium Chloride/Silica Nano-Holed Microcapsule Composites. <i>Journal of Chemical Engineering of Japan</i> , 2020 , 53, 457-462	0.8	
81	Pipe diameter effect on flow and heat transfer characteristics of ammonia alum hydrate slurries with additives. <i>AIChE Journal</i> , 2020 , 66, e16780	3.6	2
80	Frequency analysis of torque variation of a rotationally reciprocating impeller using newtonian and viscoelastic fluids. <i>Chemical Engineering Research and Design</i> , 2019 , 142, 327-335	5.5	2
79	The numerical analysis of particle-size distribution of clusters in shear flow at one-dimensional closed system and three-dimensional open system. <i>Advanced Powder Technology</i> , 2019 , 30, 774-785	4.6	1
78	Ammonia alum hydrate-based phase change materials for effective use of excess exhaust heat from gas engines. <i>International Journal of Refrigeration</i> , 2019 , 100, 63-71	3.8	2

77	Controlling of Dispersion State of Particles in Slurry and Electrochemical Properties of Electrodes. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A501-A506	3.9	12
76	Effects of flexibility and entanglement of sodium hyaluronate in solutions on the entry flow in micro abrupt contraction-expansion channels. <i>Physics of Fluids</i> , 2019 , 31, 072005	4.4	16
75	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
74	Effects of the extensional rheological properties of polymer solutions on vortex shedding and turbulence characteristics in a two-dimensional turbulent flow. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2018 , 254, 1-11	2.7	11
73	Ammonium alum hydrate slurries with surfactants and polyvinyl alcohol as a latent heat transportation material for high temperature. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 124, 1334-1346	4.9	10
72	New paste for severe stomatitis in patients undergoing head-and-neck cancer radiotherapy and/or chemotherapy with oral appliance. <i>BMC Cancer</i> , 2018 , 18, 245	4.8	3
71	Extensional Viscosity of Low Viscous Polymer Solutions Measured by Pressure Drops in Abrupt Contraction Channels. <i>Nihon Reoroji Gakkaishi</i> , 2018 , 46, 13-22	0.8	5
70	Application of a Rotationally Reciprocating Plate Impeller on Crystallization Process. <i>Journal of Chemical Engineering of Japan</i> , 2018 , 51, 159-165	0.8	5
69	Velocity Fields around the Bulge Structure Observed in a Cavity Swept by a Visco-Elastic Fluid. <i>Nihon Reoroji Gakkaishi</i> , 2018 , 46, 29-36	0.8	2
68	Effect of Shear Rate Distribution on Particle Aggregation in a Stirred Vessel. <i>Chemical Engineering and Technology</i> , 2017 , 40, 493-497	2	3
67	Fabrication of hard-shell microcapsules containing inorganic materials. <i>International Journal of Refrigeration</i> , 2017 , 82, 97-105	3.8	10
66	Effects of Extensional Rates on Anisotropic Structures and Characteristic Scales of Two-Dimensional Turbulence in Polymer Solutions. <i>Flow, Turbulence and Combustion</i> , 2016 , 96, 227-244	2.5	7
65	Adhesive behavior of a calcium carbonate particle to solid walls having different hydrophilic characteristics. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 92, 603-609	4.9	16
64	Characteristics of Flow Field Induced by a Rotationally Reciprocating Plate Impeller. <i>Journal of Chemical Engineering of Japan</i> , 2016 , 49, 341-349	0.8	6
63	Effects of the Molar Ratio of Counter-Ions on Flow Characteristics of Surfactant Solutions Sweeping Cavities. <i>Nihon Reoroji Gakkaishi</i> , 2016 , 44, 143-151	0.8	2
62	Dispersion and Re-aggregation of Particles in a Suspension Flowing in an Abrupt Contraction Channel. <i>Nihon Reoroji Gakkaishi</i> , 2016 , 44, 153-158	0.8	2
61	The Control of Slurry Rheology with the Addition of Nano-particles. <i>Hosokawa Powder Technology Foundation ANNUAL REPORT</i> , 2016 , 24, 49-55	0	
60	Viscoelastic Analysis of Dispersion Process of Highly Concentrated Suspension for LiB Cathodes. <i>Journal of the Society of Powder Technology, Japan</i> , 2016 , 53, 371-379	0.3	4

59	Rheological characterization of metal particle suspension and its relationship with spray-dried granule properties. <i>Powder Technology</i> , 2015 , 271, 93-99	5.2	3
58	Inertio-elastic flow instability in a micro-cavity swept by a visco-elastic fluid. <i>Transactions of the JSME (in Japanese)</i> , 2015 , 81, 14-00650-14-00650	0.2	
57	Effect of shear strain in coating on the particle packing of gelled-clay particle dispersions during drying 2015 , 12, 939-948		2
56	Effect of Shear Strain Applied in Coating and Colloidal Stability on the Drying Process of Latex Dispersions. <i>Journal of Chemical Engineering of Japan</i> , 2015 , 48, 87-93	0.8	3
55	Power Characteristics of a Rotationally Reciprocating Impeller. <i>Journal of Chemical Engineering of Japan</i> , 2015 , 48, 885-890	0.8	8
54	Flow characteristics in a micro-cavity swept by a visco-elastic fluid. <i>Experimental Thermal and Fluid Science</i> , 2015 , 67, 96-101	3	7
53	Numerical Simulation of Particle Dispersion in Flow between Coaxial Cylinders under Unsteady Flow Conditions. <i>Nihon Reoroji Gakkaishi</i> , 2015 , 43, 85-92	0.8	4
52	Characteristic scales of two-dimensional turbulence in polymer solutions. <i>AIChE Journal</i> , 2014 , 60, 1854-1862	3.62	14
51	Local, real-time measurement of drying films of aqueous polymer solutions using active microrheology. <i>Langmuir</i> , 2014 , 30, 5230-7	4	9
50	Fabrication Process of Silica Hard-shell Microcapsule (HSMC) Containing Phase-change Materials. <i>Chemistry Letters</i> , 2014 , 43, 820-821	1.7	7
49	Crystal Growth and Viscosity Behaviors of Ammonium Alum Hydrate Solution with PVA in Shear Flow. <i>Nihon Reoroji Gakkaishi</i> , 2014 , 42, 219-226	0.8	5
48	Phase Separation Characteristics of Ammonium Alum Hydrates with Poly Vinyl Alcohol. <i>Journal of Chemical Engineering of Japan</i> , 2014 , 47, 169-174	0.8	9
47	Fluid Deformation Induced by a Rotationally Reciprocating Impeller. <i>Journal of Chemical Engineering of Japan</i> , 2014 , 47, 151-158	0.8	12
46	Flow and Oxygen-Dissolution Characteristics of Microbubbles in a Viscoelastic Fluid. <i>Journal of Chemical Engineering of Japan</i> , 2014 , 47, 201-206	0.8	1
45	Effects of the extensional rate on two-dimensional turbulence of semi-dilute polymer solution flows. <i>Rheologica Acta</i> , 2013 , 52, 949-961	2.3	12
44	Flow and heat transfer characteristics of ammonium alum hydrate slurries. <i>International Journal of Refrigeration</i> , 2013 , 36, 81-87	3.8	17
43	Cutting-Edge Research at the Membrane Center in Kobe University in Japan. <i>Biotechnology and Biotechnological Equipment</i> , 2013 , 27, 3478-3484	1.6	
42	Aggregation/Dispersion Behaviors of Fine Particles in a Flow between Parallel Plates. <i>Journal of Chemical Engineering of Japan</i> , 2013 , 46, 524-529	0.8	7

41	Particle Dispersion/Aggregation Model in a Non-Uniform Shear Flow. <i>Nihon Reoroji Gakkaishi</i> , 2013 , 41, 75-81	0.8	6
40	Drag-reduction of a nonionic surfactant aqueous solution and its rheological characteristics. <i>Science China Technological Sciences</i> , 2012 , 55, 772-778	3.5	12
39	Flow and Heat Transfer Characteristics of Ammonium Alum Hydrate Slurry Treated with Surfactants. <i>Journal of Chemical Engineering of Japan</i> , 2012 , 45, 136-141	0.8	9
38	Onion-Like Structure of Viscoelastic Surfactant Solution Flow Induced by 4-Blade Paddle Impeller in a Vessel. <i>Journal of Chemical Engineering of Japan</i> , 2012 , 45, 94-101	0.8	4
37	Effect of Carboxymethylcellulose on Agglomeration and Dispersal of Polystyrene Particle Agglomerates with Step-Wise Shear Rate Change. <i>Kagaku Kogaku Ronbunshu</i> , 2012 , 38, 13-18	0.4	2
36	Relaxation Behavior of a Drag-Reducing Cationic Surfactant Solution. <i>Nihon Reoroji Gakkaishi</i> , 2012 , 40, 85-90	0.8	17
35	Formation of Particle Layer Within Coated Slurry Characterized by Thickness Variation. <i>Drying Technology</i> , 2011 , 29, 1037-1045	2.6	7
34	Numerical Study on Non-Absorbable Gas Control Using an Immersed Plate and Extraction in Evaporator/Absorber of Absorption Chiller. <i>Journal of Chemical Engineering of Japan</i> , 2010 , 43, 561-568	0.8	
33	Agglomeration of Hydrate Particles in Aqueous Surfactant Solution with Counter-Ion. <i>Journal of Chemical Engineering of Japan</i> , 2010 , 43, 23-28	0.8	1
32	Effect of Molar Ratio of Counter-Ions to Cationic Surfactants Treating Trimethylolethane Hydrate Slurries. <i>Journal of Chemical Engineering of Japan</i> , 2010 , 43, 349-354	0.8	2
31	Particle Size Depression and Drag Reduction of Ice Slurry Treated with Combination Additives of Surfactants and Poly(vinyl alcohol). <i>Journal of Chemical Engineering of Japan</i> , 2010 , 43, 482-486	0.8	7
30	Investigation of Thermal Properties of Na ₂ HPO ₄ Hydrate Slurries for Evaluating Their Use as a Coolant in Absorption Chillers. <i>Journal of Chemical Engineering of Japan</i> , 2010 , 43, 34-39	0.8	13
29	Effect of molar ratio of counter-ions to cationic surfactants on drag reduction characteristics of trimethylolethane hydrate slurries. <i>International Journal of Refrigeration</i> , 2010 , 33, 1632-1638	3.8	7
28	Drying of Coated Slurry in Vapor of Drying Solvent. <i>Journal of Chemical Engineering of Japan</i> , 2010 , 43, 892-900	0.8	
27	Particle Size Characteristics of Ice Slurry Treated with Surfactants and Brines. <i>Journal of Chemical Engineering of Japan</i> , 2009 , 42, 447-451	0.8	12
26	Dependence of polymer electrolyte fuel cell performance on preparation conditions of slurry for catalyst layers. <i>Journal of Power Sources</i> , 2009 , 193, 488-494	8.9	21
25	Drag reduction characteristics of trimethylolethane hydrate slurries treated with surfactants. <i>International Journal of Refrigeration</i> , 2009 , 32, 931-937	3.8	17
24	Effect of dispersing and stabilizing additives on rheological characteristics of the upgraded brown coal water mixture. <i>Fuel Processing Technology</i> , 2009 , 90, 611-615	7.2	25

23	Model analysis on dispersion characteristics of fine particles in Newtonian molten polymer. <i>Advanced Powder Technology</i> , 2009 , 20, 139-144	4.6	7
22	Drying Rate and Surface Optical Characteristic of Slurry Coating. <i>Kagaku Kogaku Ronbunshu</i> , 2009 , 35, 297-303	0.4	7
21	Improvement of Thixotropy Model Analyzing Dispersion Characteristics of Fine Particles in Newtonian Molten Polymer. <i>Nihon Reoroji Gakkaishi</i> , 2009 , 37, 191-198	0.8	8
20	Development of a Liquid Film Model for the Evaporator in an Absorption Chiller. <i>Kagaku Kogaku Ronbunshu</i> , 2009 , 35, 417-424	0.4	1
19	Agglomeration Behavior of Particles in a Molten Polymer in a Steady Shear Flow. <i>Nihon Reoroji Gakkaishi</i> , 2009 , 37, 135-141	0.8	
18	Behavior of Fine Particle Agglomerates in a Newtonian Molten Polymer Under a Shear Flow. <i>Advanced Powder Technology</i> , 2008 , 19, 507-521	4.6	9
17	Multi-mode Relaxation Behavior of Drag-reducing Surfactants with Excess Addition of Counter-ions. <i>AIP Conference Proceedings</i> , 2008 ,	0	2
16	Size Characteristics of Liposomes Formed in a Micro-Tube. <i>Journal of Chemical Engineering of Japan</i> , 2008 , 41, 739-743	0.8	5
15	Mixing Mechanism of a Multi-Holed Static Mixer. <i>Journal of Chemical Engineering of Japan</i> , 2008 , 41, 139-144	1.4	3
14	The Effect of Shear Rate on Heteroaggregation Behavior of Latex Polymers and Suspension Polymers in Aqueous Media. <i>Journal of Chemical Engineering of Japan</i> , 2008 , 41, 845-854	0.8	3
13	Optimization of Preparation and Drying Conditions of Titanium Dioxide Slurry for Coating on a Plastic Substrate. <i>Journal of Chemical Engineering of Japan</i> , 2007 , 40, 973-979	0.8	2
12	Effect of the Composition and Coating Condition on the Structure and Performance of Catalyst Layer of PEFC. <i>Journal of Chemical Engineering of Japan</i> , 2007 , 40, 808-816	0.8	2
11	Control of Optical Characteristic by Coating and Drying. <i>Kagaku Kogaku Ronbunshu</i> , 2007 , 33, 48-52	0.4	1
10	Correlation of Fluidity between Solid-Liquid and Solid-Gas Suspensions. <i>Kagaku Kogaku Ronbunshu</i> , 2007 , 33, 315-318	0.4	
9	Mixing Characteristics of Newtonian Fluid by a Multi-Holed Static Mixer. <i>Journal of Chemical Engineering of Japan</i> , 2006 , 39, 807-813	0.8	4
8	Hydrodynamics and Heat Transfer Characteristics of Drag-Reducing Trimethylolethane Solution and Suspension by Cationic Surfactant. <i>Journal of Chemical Engineering of Japan</i> , 2006 , 39, 623-632	0.8	20
7	Viscosity measuring technique for gas-solid suspensions. <i>Advanced Powder Technology</i> , 2006 , 17, 333-343	1.6	11
6	Preparation of Carbonized Biomass Water Mixture and Upgraded Coal Water Mixture. <i>Journal of Chemical Engineering of Japan</i> , 2006 , 39, 1206-1212	0.8	3

5	Structure Control of Agglomerative Slurry of Mono-modal Particles by Spin Coating. <i>Nihon Reoraji Gakkaishi</i> , 2005 , 33, 279-283	0.8	4
4	Characteristics of Laminar Flow Induced by Reciprocating Disk in Cylindrical Vessel.. <i>Journal of Chemical Engineering of Japan</i> , 2001 , 34, 919-928	0.8	14
3	Characteristics of Turbulent Flow Induced by Reciprocating Disk in Cylindrical Vessel.. <i>Journal of Chemical Engineering of Japan</i> , 2001 , 34, 929-935	0.8	6
2	Mixing Performance by Reciprocating Disk in Cylindrical Vessel.. <i>Journal of Chemical Engineering of Japan</i> , 2000 , 33, 879-885	0.8	21
1	The effect of yielding of dense silica slurry on the uniformity of coated layer1		