Yoshiyuki Komoda

List of Publications by Citations

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	Effect of dispersing and stabilizing additives on rheological characteristics of the upgraded brown coal water mixture. *Fuel Processing Technology*, **2009**, 90, 611-615	7.2	25
93	Dependence of polymer electrolyte fuel cell performance on preparation conditions of slurry for catalyst layers. *Journal of Power Sources*, **2009**, 193, 488-494	8.9	21
92	Mixing Performance by Reciprocating Disk in Cylindrical Vessel.. *Journal of Chemical Engineering of Japan*, **2000**, 33, 879-885	0.8	21
91	Hydrodynamics and Heat Transfer Characteristics of Drag-Reducing Trimethylolethane Solution and Suspension by Cationic Surfactant. *Journal of Chemical Engineering of Japan*, **2006**, 39, 623-632	0.8	20
90	Flow and heat transfer characteristics of ammonium alum hydrate slurries. *International Journal of Refrigeration*, **2013**, 36, 81-87	3.8	17
89	Drag reduction characteristics of trimethylolethane hydrate slurries treated with surfactants. *International Journal of Refrigeration*, **2009**, 32, 931-937	3.8	17
88	Relaxation Behavior of a Drag-Reducing Cationic Surfactant Solution. *Nihon Reoroji Gakkaishi*, **2012**, 40, 85-90	0.8	17
87	Adhesive behavior of a calcium carbonate particle to solid walls having different hydrophilic characteristics. *International Journal of Heat and Mass Transfer*, **2016**, 92, 603-609	4.9	16
86	Effects of flexibility and entanglement of sodium hyaluronate in solutions on the entry flow in micro abrupt contraction-expansion channels. *Physics of Fluids*, **2019**, 31, 072005	4.4	16
85	Characteristic scales of two-dimensional turbulence in polymer solutions. *AICHE Journal*, **2014**, 60, 1854-1862	3.8	14
84	Characteristics of Laminar Flow Induced by Reciprocating Disk in Cylindrical Vessel.. *Journal of Chemical Engineering of Japan*, **2001**, 34, 919-928	0.8	14
83	Investigation of Thermal Properties of Na2HPO4 Hydrate Slurries for Evaluating Their Use as a Coolant in Absorption Chillers. *Journal of Chemical Engineering of Japan*, **2010**, 43, 34-39	0.8	13
82	Controlling of Dispersion State of Particles in Slurry and Electrochemical Properties of Electrodes. *Journal of the Electrochemical Society*, **2019**, 166, A501-A506	3.9	12
81	Effects of the extensional rate on two-dimensional turbulence of semi-dilute polymer solution flows. *Rheologica Acta*, **2013**, 52, 949-961	2.3	12
80	Drag-reduction of a nonionic surfactant aqueous solution and its rheological characteristics. *Science China Technological Sciences*, **2012**, 55, 772-778	3.5	12
79	Particle Size Characteristics of Ice Slurry Treated with Surfactants and Brines. *Journal of Chemical Engineering of Japan*, **2009**, 42, 447-451	0.8	12
78	Fluid Deformation Induced by a Rotationally Reciprocating Impeller. *Journal of Chemical Engineering of Japan*, **2014**, 47, 151-158	0.8	12

77	Effects of the extensional rheological properties of polymer solutions on vortex shedding and turbulence characteristics in a two-dimensional turbulent flow. *Journal of Non-Newtonian Fluid Mechanics*, **2018**, 254, 1-11	2.7	11
76	Viscosity measuring technique for gas-solid suspensions. *Advanced Powder Technology*, **2006**, 17, 333-343	1.6	11
75	Ammonium alum hydrate slurries with surfactants and polyvinyl alcohol as a latent heat transportation material for high temperature. *International Journal of Heat and Mass Transfer*, **2018**, 124, 1334-1346	4.9	10
74	Fabrication of hard-shell microcapsules containing inorganic materials. *International Journal of Refrigeration*, **2017**, 82, 97-105	3.8	10
73	Local, real-time measurement of drying films of aqueous polymer solutions using active microrheology. *Langmuir*, **2014**, 30, 5230-7	4	9
72	Phase Separation Characteristics of Ammonium Alum Hydrates with Poly Vinyl Alcohol. *Journal of Chemical Engineering of Japan*, **2014**, 47, 169-174	0.8	9
71	Flow and Heat Transfer Characteristics of Ammonium Alum Hydrate Slurry Treated with Surfactants. *Journal of Chemical Engineering of Japan*, **2012**, 45, 136-141	0.8	9
70	Behavior of Fine Particle Agglomerates in a Newtonian Molten Polymer Under a Shear Flow. *Advanced Powder Technology*, **2008**, 19, 507-521	4.6	9
69	Power Characteristics of a Rotationally Reciprocating Impeller. *Journal of Chemical Engineering of Japan*, **2015**, 48, 885-890	0.8	8
68	Improvement of Thixotropy Model Analyzing Dispersion Characteristics of Fine Particles in Newtonian Molten Polymer. *Nihon Reoroji Gakkaishi*, **2009**, 37, 191-198	0.8	8
67	Effects of Extensional Rates on Anisotropic Structures and Characteristic Scales of Two-Dimensional Turbulence in Polymer Solutions. *Flow, Turbulence and Combustion*, **2016**, 96, 227-244	2.5	7
66	Fabrication Process of Silica Hard-shell Microcapsule (HSMC) Containing Phase-change Materials. *Chemistry Letters*, **2014**, 43, 820-821	1.7	7
65	Flow characteristics in a micro-cavity swept by a visco-elastic fluid. *Experimental Thermal and Fluid Science*, **2015**, 67, 96-101	3	7
64	Model analysis on dispersion characteristics of fine particles in Newtonian molten polymer. *Advanced Powder Technology*, **2009**, 20, 139-144	4.6	7
63	Formation of Particle Layer Within Coated Slurry Characterized by Thickness Variation. *Drying Technology*, **2011**, 29, 1037-1045	2.6	7
62	Particle Size Depression and Drag Reduction of Ice Slurry Treated with Combination Additives of Surfactants and Poly(vinyl alcohol). *Journal of Chemical Engineering of Japan*, **2010**, 43, 482-486	0.8	7
61	Effect of molar ratio of counter-ions to cationic surfactants on drag reduction characteristics of trimethylolethane hydrate slurries. *International Journal of Refrigeration*, **2010**, 33, 1632-1638	3.8	7
60	Aggregation/Dispersion Behaviors of Fine Particles in a Flow between Parallel Plates. *Journal of Chemical Engineering of Japan*, **2013**, 46, 524-529	0.8	7

59	Drying Rate and Surface Optical Characteristic of Slurry Coating. *Kagaku Kogaku Ronbunshu*, **2009**, 35, 297-303	0.4	7
58	Characteristics of Flow Filed Induced by a Rotationally Reciprocating Plate Impeller. *Journal of Chemical Engineering of Japan*, **2016**, 49, 341-349	0.8	6
57	Characteristics of Turbulent Flow Induced by Reciprocating Disk in Cylindrical Vessel.. *Journal of Chemical Engineering of Japan*, **2001**, 34, 929-935	0.8	6
56	Particle Dispersion/Aggregation Model in a Non-Uniform Shear Flow. *Nihon Reoroji Gakkaishi*, **2013**, 41, 75-81	0.8	6
55	Extensional Viscosity of Low Viscous Polymer Solutions Measured by Pressure Drops in Abrupt Contraction Channels. *Nihon Reoroji Gakkaishi*, **2018**, 46, 13-22	0.8	5
54	Crystal Growth and Viscosity Behaviors of Ammonium Alum Hydrate Solution with PVA in Shear Flow. *Nihon Reoroji Gakkaishi*, **2014**, 42, 219-226	0.8	5
53	Size Characteristics of Liposomes Formed in a Micro-Tube. *Journal of Chemical Engineering of Japan*, **2008**, 41, 739-743	0.8	5
52	Application of a Rotationally Reciprocating Plate Impeller on Crystallization Process. *Journal of Chemical Engineering of Japan*, **2018**, 51, 159-165	0.8	5
51	Flow and sedimentation characteristics of silica hard-shell microcapsule slurries treated with additives. *International Journal of Refrigeration*, **2019**, 106, 18-23	3.8	4
50	Onion-Like Structure of Viscoelastic Surfactant Solution Flow Induced by 4-Blade Paddle Impeller in a Vessel. *Journal of Chemical Engineering of Japan*, **2012**, 45, 94-101	0.8	4
49	Mixing Characteristics of Newtonian Fluid by a Multi-Holed Static Mixer. *Journal of Chemical Engineering of Japan*, **2006**, 39, 807-813	0.8	4
48	Numerical Simulation of Particle Dispersion in Flow between Coaxial Cylinders under Unsteady Flow Conditions. *Nihon Reoroji Gakkaishi*, **2015**, 43, 85-92	0.8	4
47	Structure Control of Agglomerative Slurry of Mono-modal Particles by Spin Coating. *Nihon Reoroji Gakkaishi*, **2005**, 33, 279-283	0.8	4
46	Viscoelastic Analysis of Dispersion Process of Highly Concentrated Suspension for LiB Cathodes. *Journal of the Society of Powder Technology, Japan*, **2016**, 53, 371-379	0.3	4
45	Effect of Shear Rate Distribution on Particle Aggregation in a Stirred Vessel. *Chemical Engineering and Technology*, **2017**, 40, 493-497	2	3
44	Rheological characterization of metal particle suspension and its relationship with spray-dried granule properties. *Powder Technology*, **2015**, 271, 93-99	5.2	3
43	New paste for severe stomatitis in patients undergoing head-and-neck cancer radiotherapy and/or chemotherapy with oral appliance. *BMC Cancer*, **2018**, 18, 245	4.8	3
42	Effect of Shear Strain Applied in Coating and Colloidal Stability on the Drying Process of Latex Dispersions. *Journal of Chemical Engineering of Japan*, **2015**, 48, 87-93	0.8	3

41	Preparation of Carbonized Biomass Water Mixture and Upgraded Coal Water Mixture. *Journal of Chemical Engineering of Japan*, **2006**, 39, 1206-1212	0.8	3
40	Mixing Mechanism of a Multi-Holed Static Mixer. *Journal of Chemical Engineering of Japan*, **2008**, 41, 139-144	0.8	3
39	The Effect of Shear Rate on Heteroaggregation Behavior of Latex Polymers and Suspension Polymers in Aqueous Media. *Journal of Chemical Engineering of Japan*, **2008**, 41, 845-854	0.8	3
38	Frequency analysis of torque variation of a rotationally reciprocating impeller using newtonian and viscoelastic fluids. *Chemical Engineering Research and Design*, **2019**, 142, 327-335	5.5	2
37	Ammonia alum hydrate-based phase change materials for effective use of excess exhaust heat from gas engines. *International Journal of Refrigeration*, **2019**, 100, 63-71	3.8	2
36	Effect of shear strain in coating on the particle packing of gelled-clay particle dispersions during drying **2015**, 12, 939-948		2
35	Effect of Molar Ratio of Counter-Ions to Cationic Surfactants Treating Trimethylolethane Hydrate Slurries. *Journal of Chemical Engineering of Japan*, **2010**, 43, 349-354	0.8	2
34	Multi-mode Relaxation Behavior of Drag-reducing Surfactants with Excess Addition of Counter-ions. *AIP Conference Proceedings*, **2008**,	0	2
33	Optimization of Preparation and Drying Conditions of Titanium Dioxide Slurry for Coating on a Plastic Substrate. *Journal of Chemical Engineering of Japan*, **2007**, 40, 973-979	0.8	2
32	Effect of the Composition and Coating Condition on the Structure and Performance of Catalyst Layer of PEFC. *Journal of Chemical Engineering of Japan*, **2007**, 40, 808-816	0.8	2
31	Effect of Additives on the Rapid Destruction Process of Particle Aggregates in a Startup Shear Flow. *Journal of Chemical Engineering of Japan*, **2020**, 53, 422-430	0.8	2
30	Effect of Carboxymethylcellulose on Agglomeration and Dispersal of Polystyrene Particle Agglomerates with Step-Wise Shear Rate Change. *Kagaku Kogaku Ronbunshu*, **2012**, 38, 13-18	0.4	2
29	Effects of the Molar Ratio of Counter-Ions on Flow Characteristics of Surfactant Solutions Sweeping Cavities. *Nihon Reoroji Gakkaishi*, **2016**, 44, 143-151	0.8	2
28	Dispersion and Re-aggregation of Particles in a Suspension Flowing in an Abrupt Contraction Channel. *Nihon Reoroji Gakkaishi*, **2016**, 44, 153-158	0.8	2
27	Pipe diameter effect on flow and heat transfer characteristics of ammonia alum hydrate slurries with additives. *AICHE Journal*, **2020**, 66, e16780	3.6	2
26	Velocity Fields around the Bulge Structure Observed in a Cavity Swept by a Visco-Elastic Fluid. *Nihon Reoroji Gakkaishi*, **2018**, 46, 29-36	0.8	2
25	The numerical analysis of particle-size distribution of clusters in shear flow at one-dimensional closed system and three-dimensional open system. *Advanced Powder Technology*, **2019**, 30, 774-785	4.6	1
24	Agglomeration of Hydrate Particles in Aqueous Surfactant Solution with Counter-Ion. *Journal of Chemical Engineering of Japan*, **2010**, 43, 23-28	0.8	1

23	Rheological interpretation of the structural change of LiB cathode slurry during the preparation process. *Jcis Open*, **2022**, 5, 100038		1
22	Control of Optical Characteristic by Coating and Drying. *Kagaku Kogaku Ronbunshu*, **2007**, 33, 48-52	0.4	1
21	Impacts of the Surfactant Concentration on the Sedimentation Characteristics of Silica Hard-Shell Microcapsules Containing Phase Change Materials. *Journal of Chemical Engineering of Japan*, **2020**, 53, 431-437	0.8	1
20	Development of a Liquid Film Model for the Evaporator in an Absorption Chiller. *Kagaku Kogaku Ronbunshu*, **2009**, 35, 417-424	0.4	1
19	Flow and Oxygen-Dissolution Characteristics of Microbubbles in a Viscoelastic Fluid. *Journal of Chemical Engineering of Japan*, **2014**, 47, 201-206	0.8	1
18	Representative shear rate for particle agglomeration in a mixing tank. *Chemical Engineering Research and Design*, **2021**, 171, 73-79	5.5	1
17	Effect of Baffle Clearance on Scale Deposition in an Agitated Vessel. *ACS Omega*, **2021**, 6, 24070-24074	3.9	1
16	Enhancement of laminar mixing by an anchor impeller with rotationally reciprocating motion. *AIP Advances*, **2022**, 12, 015013	1.5	0
15	Topology and dynamics of streakline on the mixing boundary of two-dimensional chaotic flow induced by a rotationally reciprocating anchor impeller. *Journal of the Taiwan Institute of Chemical Engineers*, **2022**, 131, 104213	5.3	0
14	Inertio-elastic flow instability in a micro-cavity swept by a visco-elastic fluid. *Transactions of the JSME (in Japanese)*, **2015**, 81, 14-00650-14-00650	0.2	
13	Cutting-Edge Research at the Membrane Center in Kobe University in Japan. *Biotechnology and Biotechnological Equipment*, **2013**, 27, 3478-3484	1.6	
12	Numerical Study on Non-Absorbable Gas Control Using an Immersed Plate and Extraction in Evaporator/Absorber of Absorption Chiller. *Journal of Chemical Engineering of Japan*, **2010**, 43, 561-568	0.8	
11	Friction Factor Distribution at the Side Wall of a Turbulent Agitated Vessel with Baffles Using a MAXBLEND Impeller. *Industrial & Engineering Chemistry Research*, **2022**, 61, 1514-1522	3.9	
10	Drying rate of latex coating affected by the deformability of resin particles in convection drying.. *European Physical Journal E*, **2022**, 45, 2	1.5	
9	Correlation of Fluidity between Solid-Liquid and Solid-Gas Suspensions. *Kagaku Kogaku Ronbunshu*, **2007**, 33, 315-318	0.4	
8	Gas Absorption Enhancement of Slug Flow in the Presence of Non-Porous Silica Fine Particles. *Journal of Chemical Engineering of Japan*, **2020**, 53, 409-413	0.8	
7	Dynamic Characteristics of Calcium Chloride/Silica Nano-Holed Microcapsule Composites. *Journal of Chemical Engineering of Japan*, **2020**, 53, 457-462	0.8	
6	Agglomeration Behavior of Particles in a Molten Polymer in a Steady Shear Flow. *Nihon Reoroji Gakkaishi*, **2009**, 37, 135-141	0.8	

List of Publications

5	Drying of Coated Slurry in Vapor of Drying Solvent. *Journal of Chemical Engineering of Japan*, **2010**, 43, 892-900	0.8
4	Forced Motion of a Single Particle in Micron-sized Particle Dispersion. *Journal of the Society of Powder Technology, Japan*, **2021**, 58, 138-146	0.3
3	Rheological Analysis of Electrode Slurries for Secondary Battery. *Journal of the Society of Powder Technology, Japan*, **2021**, 58, 178-185	0.3
2	The effect of yielding of dense silica slurry on the uniformity of coated layer1	
1	The Control of Slurry Rheology with the Addition of Nano-particles. *Hosokawa Powder Technology Foundation ANNUAL REPORT*, **2016**, 24, 49-55	0