

Ruri Hidema

List of Publications by Year in descending order

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papers

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686830

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47
all docs

47
docs citations

47
times ranked

252
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlling of Dispersion State of Particles in Slurry and Electrochemical Properties of Electrodes. <i>Journal of the Electrochemical Society</i> , 2019, 166, A501-A506.	1.3	30
2	Creation of Shape-memory Gels with Inter-crosslinking Network Structure. <i>Chemistry Letters</i> , 2012, 41, 1029-1031.	0.7	28
3	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, .	1.6	23
4	Smart Lenses Developed with High-Strength and Shape Memory Gels. <i>E-Journal of Surface Science and Nanotechnology</i> , 2012, 10, 243-247.	0.1	22
5	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.	1.0	21
6	Intelligent Button Developed Using Smart Soft and Wet Materials. <i>Chemistry Letters</i> , 2012, 41, 1047-1049.	0.7	20
7	Characteristic scales of two-dimensional turbulence in polymer solutions. <i>AIChE Journal</i> , 2014, 60, 1854-1862.	1.8	19
8	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.	2.5	18
9	Image analysis of thickness in flowing soap films. I: effects of polymer. <i>Experiments in Fluids</i> , 2010, 49, 725-732.	1.1	16
10	Effects of the extensional rate on two-dimensional turbulence of semi-dilute polymer solution flows. <i>Rheologica Acta</i> , 2013, 52, 949-961.	1.1	16
11	Ultrahigh Ductile Gels Having Inter-Crosslinking Network (ICN) Structure. <i>E-Journal of Surface Science and Nanotechnology</i> , 2012, 10, 346-350.	0.1	16
12	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.	2.5	14
13	Fluid Deformation Induced by a Rotationally Reciprocating Impeller. <i>Journal of Chemical Engineering of Japan</i> , 2014, 47, 151-158.	0.3	14
14	Phase Separation Characteristics of Ammonium Alum Hydrates with Poly Vinyl Alcohol. <i>Journal of Chemical Engineering of Japan</i> , 2014, 47, 169-174.	0.3	12
15	Fabrication of hard-shell microcapsules containing inorganic materials. <i>International Journal of Refrigeration</i> , 2017, 82, 97-105.	1.8	11
16	Flow characteristics in a micro-cavity swept by a visco-elastic fluid. <i>Experimental Thermal and Fluid Science</i> , 2015, 67, 96-101.	1.5	10
17	Fabrication Process of Silica Hard-shell Microcapsule (HSMC) Containing Phase-change Materials. <i>Chemistry Letters</i> , 2014, 43, 820-821.	0.7	9
18	Size evolution of onion structure under oscillatory shear flow. <i>Chemical Physics Letters</i> , 2009, 475, 101-104.	1.2	8

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19	Power Characteristics of a Rotationally Reciprocating Impeller. Journal of Chemical Engineering of Japan, 2015, 48, 885-890.	0.3	8
20	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.	1.4	8
21	Aggregation/Dispersion Behaviors of Fine Particles in a Flow between Parallel Plates. Journal of Chemical Engineering of Japan, 2013, 46, 524-529.	0.3	7
22	Characteristics of Flow Field Induced by a Rotationally Reciprocating Plate Impeller. Journal of Chemical Engineering of Japan, 2016, 49, 341-349.	0.3	7
23	Application of a Rotationally Reciprocating Plate Impeller on Crystallization Process. Journal of Chemical Engineering of Japan, 2018, 51, 159-165.	0.3	6
24	Particle Dispersion/Aggregation Model in a Non-Uniform Shear Flow. Nihon Reoroji Gakkaishi, 2013, 41, 75-81.	0.2	6
25	Extensional Viscosity of Low Viscous Polymer Solutions Measured by Pressure Drops in Abrupt Contraction Channels. Nihon Reoroji Gakkaishi, 2018, 46, 13-22.	0.2	5
26	Vortex deformation and turbulent energy of polymer solution in a two-dimensional turbulent flow. Journal of Non-Newtonian Fluid Mechanics, 2020, 285, 104385.	1.0	5
27	Development of Film Interference Flow Imaging Method (FIFI) Studying Polymer Stretching Effects on Thin Liquid Layer. E-Journal of Surface Science and Nanotechnology, 2012, 10, 335-340.	0.1	5
28	Effect of shear strain in coating on the particle packing of gelled-clay particle dispersions during drying. Journal of Coatings Technology Research, 2015, 12, 939-948.	1.2	4
29	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.	1.8	4
30	Modification of turbulence caused by cationic surfactant wormlike micellar structures in two-dimensional turbulent flow. Journal of Fluid Mechanics, 2022, 933, .	1.4	4
31	Photo-responsive gel actuator developed with scanning microscopic light scattering. , 2012, , .		3
32	Bulge structure in a cavity swept by a viscoelastic fluid. Journal of Physics: Conference Series, 2014, 530, 012055.	0.3	3
33	Effects of the Molar Ratio of Counter-Ions on Flow Characteristics of Surfactant Solutions Sweeping Cavities. Nihon Reoroji Gakkaishi, 2016, 44, 143-151.	0.2	3
34	Velocity Fields around the Bulge Structure Observed in a Cavity Swept by a Visco-Elastic Fluid. Nihon Reoroji Gakkaishi, 2018, 46, 29-36.	0.2	3
35	Drag force of polyethyleneglycol in flow measured by a scanning probe microscope. Physical Review Fluids, 2019, 4, .	1.0	3
36	Inter-crosslinking network gels having both shape memory and high ductility. , 2012, , .		2

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37	Dispersion and Re-aggregation of Particles in a Suspension Flowing in an Abrupt Contraction Channel. Nihon Reoroji Gakkaishi, 2016, 44, 153-158.	0.2	2
38	Study on Flow Characteristics of Dilute Polymer and Surfactant Solutions. Nihon Reoroji Gakkaishi, 2017, 45, 225-233.	0.2	2
39	Frequency analysis of torque variation of a rotationally reciprocating impeller using newtonian and viscoelastic fluids. Chemical Engineering Research and Design, 2019, 142, 327-335.	2.7	2
40	Inverse integral transformation method to derive local viscosity distribution measured by optical tweezers. Soft Matter, 2020, 16, 6826-6833.	1.2	2
41	Effects of channel geometry and physicochemical properties of solutions on stable double emulsion production in planar microfluidic devices having triangular orifices. AIP Advances, 2021, 11, .	0.6	2
42	Diagnosis at a glance of biological non-Newtonian fluids with Film Interference Flow Imaging (FIFI). , 2012, , .		1
43	Flow and Oxygen-Dissolution Characteristics of Microbubbles in a Viscoelastic Fluid. Journal of Chemical Engineering of Japan, 2014, 47, 201-206.	0.3	1
44	Drag force of polyethyleneglycol in flows of polymer solutions measured by a scanning probe microscope. Soft Matter, 2021, , .	1.2	1
45	Soft and wet actuator developed with responsible high-strength gels. Proceedings of SPIE, 2012, , .	0.8	0
46	Effects of extensional rates on characteristic scales of two-dimensional turbulence in polymer solutions. Journal of Physics: Conference Series, 2014, 530, 012065.	0.3	0
47	Foreword to Special Issue for Dilute Solution Rheology. Nihon Reoroji Gakkaishi, 2016, 44, 117.	0.2	0