

Ruri Hidema

List of Publications by Year in descending order

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47
papers

406
citations

686830

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47
all docs

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docs citations

47
times ranked

252
citing authors

#	ARTICLE	IF	CITATIONS
1	Modification of turbulence caused by cationic surfactant wormlike micellar structures in two-dimensional turbulent flow. <i>Journal of Fluid Mechanics</i> , 2022, 933, .	1.4	4
2	Effects of channel geometry and physicochemical properties of solutions on stable double emulsion production in planar microfluidic devices having triangular orifices. <i>AIP Advances</i> , 2021, 11, .	0.6	2
3	Drag force of polyethyleneglycol in flows of polymer solutions measured by a scanning probe microscope. <i>Soft Matter</i> , 2021, , .	1.2	1
4	Vortex deformation and turbulent energy of polymer solution in a two-dimensional turbulent flow. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2020, 285, 104385.	1.0	5
5	Inverse integral transformation method to derive local viscosity distribution measured by optical tweezers. <i>Soft Matter</i> , 2020, 16, 6826-6833.	1.2	2
6	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
7	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.	2.7	2
8	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.	1.8	4
9	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
10	Drag force of polyethyleneglycol in flow measured by a scanning probe microscope. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	3
11	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
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	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.	0.2	3
14	Extensional Viscosity of Low Viscous Polymer Solutions Measured by Pressure Drops in Abrupt Contraction Channels. <i>Nihon Reoroji Gakkaishi</i> , 2018, 46, 13-22.	0.2	5
15	Application of a Rotationally Reciprocating Plate Impeller on Crystallization Process. <i>Journal of Chemical Engineering of Japan</i> , 2018, 51, 159-165.	0.3	6
16	Fabrication of hard-shell microcapsules containing inorganic materials. <i>International Journal of Refrigeration</i> , 2017, 82, 97-105.	1.8	11
17	Study on Flow Characteristics of Dilute Polymer and Surfactant Solutions. <i>Nihon Reoroji Gakkaishi</i> , 2017, 45, 225-233.	0.2	2
18	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.	0.2	3

#	ARTICLE	IF	CITATIONS
19	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
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	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.	2.5	18
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	Foreword to Special Issue for Dilute Solution Rheology. Nihon Reoroji Gakkaishi, 2016, 44, 117.	0.2	0
24	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
25	Power Characteristics of a Rotationally Reciprocating Impeller. Journal of Chemical Engineering of Japan, 2015, 48, 885-890.	0.3	8
26	Flow characteristics in a micro-cavity swept by a visco-elastic fluid. Experimental Thermal and Fluid Science, 2015, 67, 96-101.	1.5	10
27	Phase Separation Characteristics of Ammonium Alum Hydrates with Poly Vinyl Alcohol. Journal of Chemical Engineering of Japan, 2014, 47, 169-174.	0.3	12
28	Characteristic scales of two-dimensional turbulence in polymer solutions. AIChE Journal, 2014, 60, 1854-1862.	1.8	19
29	Fabrication Process of Silica Hard-shell Microcapsule (HSMC) Containing Phase-change Materials. Chemistry Letters, 2014, 43, 820-821.	0.7	9
30	Bulge structure in a cavity swept by a viscoelastic fluid. Journal of Physics: Conference Series, 2014, 530, 012055.	0.3	3
31	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
32	Fluid Deformation Induced by a Rotationally Reciprocating Impeller. Journal of Chemical Engineering of Japan, 2014, 47, 151-158.	0.3	14
33	Flow and Oxygen-Dissolution Characteristics of Microbubbles in a Viscoelastic Fluid. Journal of Chemical Engineering of Japan, 2014, 47, 201-206.	0.3	1
34	Effects of the extensional rate on two-dimensional turbulence of semi-dilute polymer solution flows. Rheologica Acta, 2013, 52, 949-961.	1.1	16
35	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
36	Particle Dispersion/Aggregation Model in a Non-Uniform Shear Flow. Nihon Reoroji Gakkaishi, 2013, 41, 75-81.	0.2	6

#	ARTICLE	IF	CITATIONS
37	Diagnosis at a glance of biological non-Newtonian fluids with Film Interference Flow Imaging (FIFI). , 2012, , .		1
38	Soft and wet actuator developed with responsible high-strength gels. Proceedings of SPIE, 2012, , .	0.8	0
39	Creation of Shape-memory Gels with Inter-crosslinking Network Structure. Chemistry Letters, 2012, 41, 1029-1031.	0.7	28
40	Intelligent Button Developed Using Smart Soft and Wet Materials. Chemistry Letters, 2012, 41, 1047-1049.	0.7	20
41	Inter-crosslinking network gels having both shape memory and high ductility. , 2012, , .		2
42	Photo-responsive gel actuator developed with scanning microscopic light scattering. , 2012, , .		3
43	Smart Lenses Developed with High-Strength and Shape Memory Gels. E-Journal of Surface Science and Nanotechnology, 2012, 10, 243-247.	0.1	22
44	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
45	Ultrahigh Ductile Gels Having Inter-Crosslinking Network (ICN) Structure. E-Journal of Surface Science and Nanotechnology, 2012, 10, 346-350.	0.1	16
46	Image analysis of thickness in flowing soap films. I: effects of polymer. Experiments in Fluids, 2010, 49, 725-732.	1.1	16
47	Size evolution of onion structure under oscillatory shear flow. Chemical Physics Letters, 2009, 475, 101-104.	1.2	8