Naoyuki Ishida

List of Publications by Year
in descending order

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74	1,940	394421	243625
papers	citations	19 h-index	44 g-index

75	75	75	1987
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spontaneous foaming during vacuum drying of polyvinylpyrrolidone- and sugar-alcohol mixtures and enhancement of water-dissolution of water insoluble drug. Drying Technology, 2022, 40, 604-614.	3.1	4
2	Comparison of improvements of aqueous dissolution of structurally analogous hydrophobic drugs by amorphous solid dispersion. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 632, 127744.	4.7	5
3	Extraordinary high preservation of the dispersion state of Au nanoparticles during freeze-thawing and freeze-drying with gum arabic. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 639, 128392.	4.7	5
4	Dense immobilization of gold nanoparticles onto a cotton textile for obtaining plasmonic heating. MRS Advances, 2022, , 1-5.	0.9	0
5	Induction of foaming in vacuum drying by needle stimulation and the impact of solution viscosity, vapor pressure, and the type of solute and solvent. Drying Technology, 2022, 40, 3249-3261.	3.1	2
6	Sole-amorphous-sugar-based solid dispersion of curcumin and the influence of formulation composition and heat treatment on the dissolution of curcumin. Drying Technology, 2021, 39, 2065-2074.	3.1	9
7	Crystallization characteristics of amorphous trehalose dried from alcohol. Journal of Food Engineering, 2021, 292, 110325.	5.2	9
8	Direct measurement of interaction force between hydrophilic silica surfaces in triblock copolymer solutions with salt by atomic force microscopy. Advanced Powder Technology, 2021, 32, 30-36.	4.1	6
9	Evaluation of the Correlation between Surface Forces in Organic Solvents and Affinity of Solvent Molecules with Surfaces. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2021, 28, 18-25.	0.0	0
10	Ultrafast charge transfer at the electrodeâ"electrolyte interface via an artificial dielectric layer. Journal of Power Sources, 2021, 494, 229710.	7.8	14
11	Foaming characteristics of sugar- and polyvinylpyrrolidone-alcohol solutions during vacuum foam drying: A rheological approach. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 627, 127174.	4.7	0
12	Inhibiting Au nanoparticle aggregation in freeze-thawing by presence of various additives. Advanced Powder Technology, 2021, 32, 3517-3524.	4.1	4
13	Direct measurements of interaction forces of bovine serum albumin and lysozyme with stainless steel by atomic force microscopy. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 627, 127137.	4.7	0
14	Immobilization of surface non-affinitive protein onto a metal surface by an external electric field. Journal of Bioscience and Bioengineering, 2020, 129, 348-353.	2.2	2
15	The Use of a Combination of a Sugar and Surfactant to Stabilize Au Nanoparticle Dispersion against Aggregation during Freeze-Drying. Langmuir, 2020, 36, 6698-6705.	3.5	22
16	Direct Measurement of Interaction Forces between Surfaces in Liquids Using Atomic Force Microscopy. KONA Powder and Particle Journal, 2019, 36, 187-200.	1.7	18
17	Forces between zinc sulphide surfaces; amplification of the hydrophobic attraction by surface charge. Physical Chemistry Chemical Physics, 2019, 21, 20055-20064.	2.8	3
18	Physical Stability of an Amorphous Sugar Matrix Dried From Methanol as an Amorphous Solid Dispersion Carrier and the Influence of Heat Treatment. Journal of Pharmaceutical Sciences, 2019, 108, 2056-2062.	3.3	10

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19	Controlling the drying process in vacuum foam drying under low vacuum conditions by inducing foaming by needle stimulation of the solution. Drying Technology, 2019, 37, 1520-1527.	3.1	11
20	Hydrophobic Attraction Measured between Asymmetric Hydrophobic Surfaces. Langmuir, 2018, 34, 3588-3596.	3.5	22
21	Stratification of Colloidal Particles on a Surface: Study by a Colloidal Probe Atomic Force Microscopy Combined with a Transform Theory. Journal of Physical Chemistry B, 2018, 122, 4592-4599.	2.6	6
22	Adsorption characteristics of various proteins on a metal surface in the presence of an external electric potential. Colloids and Surfaces B: Biointerfaces, 2018, 166, 262-268.	5.0	14
23	Stimulus-Responsive Soft Surface/Interface Toward Applications in Adhesion, Sensor and Biomaterial. Biologically-inspired Systems, 2018, , 287-397.	0.2	1
24	1. Particle Characteristics and Measurement 1.9â€‚Interparticle Forces 1.9.2â€‚Interactions in Liquids. Journal of the Society of Powder Technology, Japan, 2018, 55, 104-112.	0.1	0
25	1.â€‚Particle Characteristics and Measurement 1.9â€‚Interparticle Forces 1.9.3â€‚Effects of Surface Deformation, Geometry and Roughness on Forces. Journal of the Society of Powder Technology, Japan, 2018, 55, 208-211.	0.1	0
26	1.â€‚Particle Characteristics and Measurement1.9â€‚Interparticle Forces1.9.4â€‚Measurement Methods of Interparticle Forces. Journal of the Society of Powder Technology, Japan, 2018, 55, 542-546.	0.1	0
27	Surfactant-Free Solid Dispersions of Hydrophobic Drugs in an Amorphous Sugar Matrix Dried from an Organic Solvent. Molecular Pharmaceutics, 2017, 14, 791-798.	4.6	19
28	Characteristics of proteinaceous additives in stabilizing enzymes during freeze-thawing and -drying. Bioscience, Biotechnology and Biochemistry, 2017, 81, 687-697.	1.3	12
29	Influence of an external electric field on removal of protein fouling on a stainless steel surface by proteolytic enzymes. Colloids and Surfaces B: Biointerfaces, 2017, 159, 118-124.	5.0	5
30	1.9.1â€‚Interactions in Gases. Journal of the Society of Powder Technology, Japan, 2017, 54, 739-743.	0.1	0
31	Direct Measurement of Surface Forces:. Journal of the Japan Society of Colour Material, 2017, 90, 333-338.	0.1	0
32	Adsorption of lysozyme on base metal surfaces in the presence of an external electric potential. Colloids and Surfaces B: Biointerfaces, 2016, 147, 9-16.	5.0	12
33	The use of a proteinaceous â€œcushionâ€•with a polystyreneâ€‘binding peptide tag to control the orientation and function of a target peptide adsorbed to a hydrophilic polystyrene surface. Biotechnology Progress, 2016, 32, 527-534.	2.6	4
34	Nanostructures of 3-aminopropyltriethoxysilane created on flat substrate by combining colloid lithography and vapor deposition. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 495, 39-45.	4.7	5
35	Surfactant-free solid dispersion of fat-soluble flavour in an amorphous sugar matrix. Food Chemistry, 2016, 197, 1136-1142.	8.2	15
36	Effect of surface hydrophobicity on short-range hydrophobic attraction between silanated silica surfaces. Advanced Powder Technology, 2015, 26, 1729-1733.	4.1	12

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37	Inhibitory effects of additives and heat treatment on the crystallization of freeze-dried sugar. Journal of Food Engineering, 2015, 155, 37-44.	5.2	17
38	Influence of sugar surfactant structure on the encapsulation of oil droplets in an amorphous sugar matrix during freeze-drying. Food Research International, 2015, 70, 143-149.	6.2	8
39	Direct Measurement of Solvophobic Force between Particles in Liquids and Its Origin. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2015, 23, 38-43.	0.0	0
40	Direct Measurement of Hydrophobic Attraction and Its Mechanism of Generation. Oleoscience, 2015, 15, 253-259.	0.0	0
41	Characteristics of Sugar Surfactants in Stabilizing Proteins During Freezeâ€“Thawing and Freezeâ€“Drying. Journal of Pharmaceutical Sciences, 2014, 103, 1628-1637.	3.3	34
42	Effect of Surface Hydrophobicity on Short-Range Hydrophobic Attraction between Silanated Silica Surfaces. Journal of the Society of Powder Technology, Japan, 2014, 51, 343-348.	0.1	0
43	Effect of Lipid Amount on Surfactant-free Solid Lipid Nanoparticle Formation by Hot Homogenization. Chemistry Letters, 2014, 43, 1011-1013.	1.3	0
44	pH Effect on Properties of Surfactant-free Oil-in-water Emulsion Prepared with Oleic Acid. Chemistry Letters, 2014, 43, 604-606.	1.3	4
45	Improving the Physical Stability of Freeze-Dried Amorphous Sugar Matrices by Compression at Several Hundreds MPa. Journal of Pharmaceutical Sciences, 2013, 102, 2187-2197.	3.3	8
46	Characteristics of amorphous matrices composed of different types of sugars in encapsulating emulsion oil droplets during freeze-drying. Food Research International, 2013, 51, 201-207.	6.2	13
47	Role of interfacial interactions in ordering of two-dimensional colloidal self-assemblies on polyelectrolyte multilayer surfaces. Soft Matter, 2013, 9, 3155.	2.7	5
48	Experimental Evaluations for the Interaction Forces between Soft Interfaces. Journal of the Society of Powder Technology, Japan, 2013, 50, 567-575.	0.1	0
49	Effect of Electrolyte and Alcohol in Solution on the Hydrophobic Attraction between Alkoxylated Silica Surfaces. Chemistry Letters, 2012, 41, 1273-1275.	1.3	2
50	Water-in-oil Microemulsion Formation with Aqueous Cn-TAB Solution and H-AOT/Isooctane Solution. Chemistry Letters, 2012, 41, 1072-1074.	1.3	0
51	Hydrophobic Attraction between Silanated Silica Surfaces in the Absence of Bridging Bubbles. Langmuir, 2012, 28, 13952-13959.	3.5	57
52	Microstructural Observation and Property Characterization of Stimuli-Responsive Polymer Grafted onto Solid Surface Using AFM and QCM-D. Oleoscience, 2012, 12, 151-158.	0.0	0
53	Analysis of Adsorption and Binding Behaviors of Silver Nanoparticles onto a Pyridyl-Terminated Surface Using XPS and AFM. Langmuir, 2011, 27, 12916-12922.	3.5	26
54	A New Method of 'Solid Inking' and Its Application to Direct Patterning of InAs Nanowire Using Dip-Pen Nanolithography. IEICE Transactions on Electronics, 2011, E94-C, 146-150.	0.6	0

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55	The size of particle aggregates produced by flocculation with PNIPAM, as a function of temperature. Journal of Colloid and Interface Science, 2011, 354, 82-88.	9.4	31
56	Experimental Investigation of the Interaction Forces between Soft Interfaces. Oleoscience, 2011, 11, 79-84.	0.0	0
57	Temperature controlled surface hydrophobicity and interaction forces induced by poly (N-isopropylacrylamide). Journal of Colloid and Interface Science, 2010, 342, 586-592.	9.4	72
58	Surface characterization of nanoparticles carrying pH-responsive polymer hair. Polymer, 2010, 51, 6240-6247.	3.8	21
59	Effect of Grafting Density on Phase Transition Behavior for Poly(N-isopropylacryamide) Brushes in Aqueous Solutions Studied by AFM and QCM-D. Macromolecules, 2010, 43, 7269-7276.	4.8	83
60	Characterizing the structural transition of cationic DPPC liposomes from the approach of TEM, SAXS and AFM measurements. Colloids and Surfaces B: Biointerfaces, 2008, 67, 73-78.	5.0	17
61	CHARACTERISTICS AND BEHAVIOR OF NANOPARTICLES AND ITS DISPERSION SYSTEMS. , 2008, , 113-176.		11
62	Direct Observation of the Phase Transition for a Poly(N-isopropylacryamide) Layer Grafted onto a Solid Surface by AFM and QCM-D. Langmuir, 2007, 23, 11083-11088.	3.5	123
63	Salt-Induced Structural Behavior for Poly(N-isopropylacryamide) Grafted onto Solid Surface Observed Directly by AFM and QCM-D. Macromolecules, 2007, 40, 9045-9052.	4.8	49
64	Direct measurement of hydrophobic particleâ€“bubble interactions in aqueous solutions by atomic force microscopy: Effect of particle hydrophobicity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 300, 293-299.	4.7	57
65	Interaction forces between a poly (N-isopropylacryamide) layer grafted onto a solid surface and a hydrophobic particle. Advanced Powder Technology, 2007, 18, 631-642.	4.1	2
66	Interaction forces measured between poly(N-isopropylacrylamide) grafted surface and hydrophobic particle. Journal of Colloid and Interface Science, 2006, 297, 513-519.	9.4	47
67	Interaction forces between chemically modified hydrophobic surfaces evaluated by AFMâ€”The role of nanoscopic bubbles in the interactions. Minerals Engineering, 2006, 19, 719-725.	4.3	49
68	Interaction Forces Between Thermoresponsive Surface and Colloidal Particle in Aqueous Solution Studied Using Atomic Force Microscopy. Materials Research Society Symposia Proceedings, 2006, 942, 1.	0.1	0
69	Capillary Forces between Planar Anchoring Surfaces in the Isotropic Phase of a Nematic Liquid Crystal. Chemistry Letters, 2005, 34, 1318-1319.	1.3	6
70	Optical Observation of Gas Bridging between Hydrophobic Surfaces in Water. Journal of Colloid and Interface Science, 2002, 253, 112-116.	9.4	50
71	Static Method to Evaluate Interaction Forces by AFM. Journal of Colloid and Interface Science, 2001, 235, 190-193.	9.4	6
72	Nano Bubbles on a Hydrophobic Surface in Water Observed by Tapping-Mode Atomic Force Microscopy. Langmuir, 2000, 16, 6377-6380.	3.5	612

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73	Attraction between Hydrophobic Surfaces with and without Gas Phase. Langmuir, 2000, 16, 5681-5687.	3.5	204
74	Effects of Hydrophobizing Methods of Surfaces on the Interaction in Aqueous Solutions. Journal of Colloid and Interface Science, 1999, 216, 387-393.	9.4	73