

# Hiroyuki Shinto

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

812  
citations

394421

19  
h-index

526287

27  
g-index

59  
all docs

59  
docs citations

59  
times ranked

829  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lattice Boltzmann model for capillary interactions between particles at a liquid-vapor interface under gravity. <i>Physical Review E</i> , 2022, 105, 045316.	2.1	4
2	Preparation and characterization of glycopolymers with biphenyl spacers via Suzuki coupling reaction. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 4474-4477.	2.8	1
3	Development of microparticle counting sensor based on structural and spectroscopic properties of metal mesh device. <i>Advanced Powder Technology</i> , 2021, 32, 1920-1926.	4.1	1
4	1. Particle Characteristics and Measurement 1.13 Optical Properties 1.13.3 Photophoresis, Optical Tweezers, and Photoacoustics. <i>Journal of the Society of Powder Technology, Japan</i> , 2021, 58, 557-567.	0.1	0
5	Effect of exposure temperature on the cell membrane disruption induced by amorphous silica nanoparticles in erythrocytes, lymphocytes, and malignant melanocytes. <i>Advanced Powder Technology</i> , 2020, 31, 835-842.	4.1	6
6	Visual sensing of proteins using gold nanoparticles coated with polyphenolic glycoside. <i>Advanced Powder Technology</i> , 2020, 31, 4129-4133.	4.1	5
7	Adhesion and cytotoxicity of positively charged nanoparticles toward budding yeast <i>Saccharomyces cerevisiae</i> and fission yeast <i>Schizosaccharomyces pombe</i> . <i>Advanced Powder Technology</i> , 2020, 31, 3686-3694.	4.1	5
8	Lattice Boltzmann method for simulation of wettable particles at a fluid-fluid interface under gravity. <i>Physical Review E</i> , 2020, 101, 033304.	2.1	9
9	Decomposition of amyloid fibrils by NIR-active upconversion nanoparticles. <i>Photochemical and Photobiological Sciences</i> , 2020, 19, 29-33.	2.9	2
10	Formation of glyco-functionalized interfaces for protein binding using polyphenolic glycoside. <i>Carbohydrate Research</i> , 2020, 492, 108002.	2.3	3
11	Fabrication and Application of Functional Soft Particles Using Red Blood Cells as Template. <i>Hosokawa Powder Technology Foundation ANNUAL REPORT</i> , 2020, 27, 53-57.	0.0	0
12	Amplification of Sensor Signals from Metal Mesh Device with Fine Periodic Structure. <i>Analytical Sciences</i> , 2019, 35, 619-623.	1.6	3
13	Effect of interfacial serum proteins on the cell membrane disruption induced by amorphous silica nanoparticles in erythrocytes, lymphocytes, malignant melanocytes, and macrophages. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 181, 270-277.	5.0	10
14	Lattice-Boltzmann flow simulation of an oil-in-water emulsion through a coalescing filter: Effects of filter structure. <i>Chemical Engineering Science</i> , 2018, 177, 210-217.	3.8	31
15	Effect of internal mass in the lattice Boltzmann simulation of moving solid bodies by the smoothed-profile method. <i>Physical Review E</i> , 2017, 95, 043309.	2.1	21
16	Theoretical Study of Long-Range Attractive Interactions between Solvophobic Surfaces in Liquid Media. <i>Hosokawa Powder Technology Foundation ANNUAL REPORT</i> , 2017, 25, 67-70.	0.0	0
17	1. Particle Characteristics and Measurement 1.8 Basic Electrostatics of Powder 1.8.2 Electrification and Electrokinetics of Particles in Liquid Media. <i>Journal of the Society of Powder Technology, Japan</i> , 2017, 54, 673-691.	0.1	1
18	Effects of physicochemical properties of particles and medium on acoustic pressure pulses from laser-irradiated suspensions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 487, 42-48.	4.7	12

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19	Cell membrane disruption induced by amorphous silica nanoparticles in erythrocytes, lymphocytes, malignant melanocytes, and macrophages. <i>Advanced Powder Technology</i> , 2014, 25, 1872-1881.	4.1	23
20	Gadolinium-loaded chitosan nanoparticles for neutron-capture therapy: Influence of micrometric properties of the nanoparticles on tumor-killing effect. <i>Applied Radiation and Isotopes</i> , 2014, 88, 109-113.	1.5	25
21	Size-dependent effect of gold nanospheres on the acoustic pressure pulses from laser-irradiated suspensions. <i>Advanced Powder Technology</i> , 2014, 25, 733-738.	4.1	16
22	Fabrication of ICG Dye-containing Particles by Growth of Polymer/Salt Aggregates and Measurement of Photoacoustic Signals. <i>Chemistry Letters</i> , 2014, 43, 495-497.	1.3	2
23	Importance of Capillary Bridge Forces for Multiphase Flows. <i>Japanese Journal of Multiphase Flow</i> , 2014, 28, 458-465.	0.3	0
24	Effect of interfacial serum proteins on melanoma cell adhesion to biodegradable poly(l-lactic acid) microspheres coated with hydroxyapatite. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 108, 8-15.	5.0	21
25	Acoustic pressure pulses from laser-irradiated suspensions containing gold nanospheres in water: Experimental and theoretical study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 430, 51-57.	4.7	16
26	Effects of Particle Volume Fraction and Surface Modifiers on Narrow Gap Filling by Liquid Epoxy Resins Containing Silica Particles. <i>Journal of the Society of Powder Technology, Japan</i> , 2013, 50, 552-560.	0.1	0
27	Solid / Liquid Interfacial Structures, Surface Forces, and Rheology of Colloidal Dispersions Comprised of Silica Particles Suspended in Liquid Epoxy Resins. <i>Journal of the Society of Powder Technology, Japan</i> , 2012, 49, 599-607.	0.1	1
28	Adhesion of melanoma cells to the microsphere surface is reduced by exposure to nanoparticles. <i>Advanced Powder Technology</i> , 2012, 23, 693-699.	4.1	8
29	Computer simulation of wetting, capillary forces, and particle-stabilized emulsions: From molecular-scale to mesoscale modeling. <i>Advanced Powder Technology</i> , 2012, 23, 538-547.	4.1	30
30	Adhesion of melanoma cells to the surfaces of microspheres studied by atomic force microscopy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 91, 114-121.	5.0	24
31	Computational Fluid Dynamics Study of Wetting, Capillary Forces, and Pickering Emulsions. <i>Oleosience</i> , 2012, 12, 63-70.	0.0	2
32	Interaction Forces between Hydrophilic or Hydrophobized Silica Surfaces in Non-aqueous Media Studied by AFM. <i>Journal of the Society of Powder Technology, Japan</i> , 2011, 48, 296-302.	0.1	4
33	Implicit Solvent Model Simulations of Surfactant Self-Assembly in Aqueous Solutions. <i>Journal of Physical Chemistry B</i> , 2010, 114, 6337-6343.	2.6	13
34	Computer Simulation of Wetting and Capillary Forces "Molecular Modeling and Fluid Dynamics". <i>Journal of the Society of Powder Technology, Japan</i> , 2009, 46, 25-34.	0.1	2
35	Last Lecture of Prof. Ko Higashitani at Kyoto University. <i>Journal of the Society of Powder Technology, Japan</i> , 2008, 45, 578-581.	0.1	0
36	Revised Implicit Solvent Model for the Simulation of Surfactants in Aqueous Solutions. 2. Modeling of Charged Headgroups at Oil-Water Interface. <i>Journal of Chemical Theory and Computation</i> , 2007, 3, 1163-1171.	5.3	10

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37	Lattice Boltzmann study of capillary forces between cylindrical particles. <i>Advanced Powder Technology</i> , 2007, 18, 643-662.	4.1	12
38	Lateral Capillary Forces between Solid Bodies on Liquid Surface: A Lattice Boltzmann Study. <i>Langmuir</i> , 2006, 22, 2058-2064.	3.5	22
39	Specific Effects of Divalent Cation Nitrates on the Nanotribology of Silica Surfaces. <i>Industrial &amp; Engineering Chemistry Research</i> , 2006, 45, 7035-7041.	3.7	19
40	Effects of cleaning procedures of silica wafers on their friction characteristics. <i>Journal of Colloid and Interface Science</i> , 2006, 299, 233-237.	9.4	52
41	Capillary Forces between Planar Anchoring Surfaces in the Isotropic Phase of a Nematic Liquid Crystal. <i>Chemistry Letters</i> , 2005, 34, 1318-1319.	1.3	6
42	Fragile structured layers on surfaces detected by dynamic atomic force microscopy in aqueous electrolyte solutions. <i>Advanced Powder Technology</i> , 2005, 16, 213-229.	4.1	5
43	Interactions between colloidal particles in NaCl aqueous solutions: molecular dynamics simulations with an implicit solvent model. <i>Advanced Powder Technology</i> , 2005, 16, 473-494.	4.1	5
44	Revised Implicit Solvent Model for the Simulation of Surfactants in Aqueous Solutions. <i>Journal of Physical Chemistry B</i> , 2005, 109, 11762-11769.	2.6	13
45	Potentials of Mean Force for Hydrophilic-Hydrophobic Solute Pairs in Water. <i>Journal of Chemical Engineering of Japan</i> , 2005, 38, 465-477.	0.6	7
46	Molecular Dynamics Calculation of Interaction Forces between Colloids in Aqueous Electrolyte Solutions Using an Implicit Solvent Model. <i>Kagaku Kogaku Ronbunshu</i> , 2005, 31, 295-300.	0.3	1
47	A Reexamination of Mean Force Potentials for the Constituent Ion Pairs of Tetramethylammonium Chloride in Water. <i>Journal of Chemical Engineering of Japan</i> , 2004, 37, 1345-1356.	0.6	11
48	Langevin Dynamics Simulations of Cationic Surfactants in Aqueous Solutions Using Potentials of Mean Force. <i>Langmuir</i> , 2004, 20, 2017-2025.	3.5	35
49	Liquid Drops on Homogeneous and Chemically Heterogeneous Surfaces: A Two-Dimensional Lattice Boltzmann Study. <i>Langmuir</i> , 2003, 19, 9086-9093.	3.5	61
50	A Reexamination of Mean Force Potentials for the Methane Pair and the Constituent Ion Pairs of NaCl in Water. <i>Journal of Chemical Engineering of Japan</i> , 2003, 36, 57-65.	0.6	29
51	Wetting-induced interaction between rigid nanoparticle and plate: A Monte Carlo study. <i>Journal of Chemical Physics</i> , 2002, 116, 9500-9509.	3.0	31
52	Interaction Forces between Nanoparticles in Diol-Water Mixtures: A Molecular Dynamics Study with Coarse-Grained Model. <i>Langmuir</i> , 2002, 18, 4171-4178.	3.5	10
53	Interaction Forces between Colloidal Particles in Alcohol-Water Mixtures Evaluated by Simple Model Simulations. <i>Langmuir</i> , 2000, 16, 3361-3371.	3.5	31
54	Evaluation of Interaction Forces between Macroparticles in Simple Fluids by Molecular Dynamics Simulation. <i>Journal of Colloid and Interface Science</i> , 1999, 209, 79-85.	9.4	50

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55	Molecular Dynamics Simulations of Surfactant Aggregation on Hydrophilic Walls in Micellar Solutions. <i>Langmuir</i> , 1999, 15, 578-586.	3.5	29
56	Molecular Dynamics Simulations of Water at NaCl(001) and NaCl(011) Surfaces. <i>Journal of Physical Chemistry B</i> , 1998, 102, 1974-1981.	2.6	51
57	Free Energy Profiles for Na <sup>+</sup> and Cl <sup>-</sup> Adsorption onto Water/NaCl Crystal Interfaces Evaluated by Molecular Dynamics Simulation.. <i>Journal of Chemical Engineering of Japan</i> , 1998, 31, 771-779.	0.6	19
58	Formation of a glyco-functionalized interface on polyethylene using a side-chain crystalline block copolymer with epoxide. <i>Polymer Journal</i> , 0, , .	2.7	0