

Toru Ishigami

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

1,299
citations

361045

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h-index

360668

35
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59
all docs

59
docs citations

59
times ranked

1446
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Surface Finish of Nonwoven Fabric Bag Filters on Filter Efficiency. <i>Chemical Engineering and Technology</i> , 2022, 45, 92-99.	0.9	7
2	High-Resolution Numerical Simulation of Microfiltration of Oil-in-Water Emulsion Permeating through a Realistic Membrane Microporous Structure Generated by Focused Ion Beam Scanning Electron Microscopy Images. <i>Langmuir</i> , 2022, 38, 2094-2108.	1.6	11
3	Numerical Simulation of Granular and Multiphase Flows through Porous Media Obtained by Image Analysis. <i>Journal of the Society of Powder Technology, Japan</i> , 2022, 59, 167-177.	0.0	0
4	CFD Model Development and Experimental Measurements for Ammonia-Water Separation Using a Vacuum Membrane Distillation Module. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 7381-7396.	1.8	8
5	Influence of pulse-jet cleaning pressure on performance of compact dust collector with pleated filter operated in clean-on-time mode. <i>Advanced Powder Technology</i> , 2022, 33, 103602.	2.0	6
6	Synthesis of NiCuZn ferrite nanoparticles from metallic nitrate solutions using the microwave direct denitration method and evaluation of its properties. <i>Particulate Science and Technology</i> , 2021, 39, 427-435.	1.1	6
7	Effect of Surface Wettability on Droplet Coalescence and Pressure Drop in a Fibrous Filter: Direct Numerical Simulation Coordinated with X-ray Computed Tomography Images. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 4168-4179.	1.8	12
8	Synthesis of zeolites with hierarchical porous structures using a microwave heating method. <i>Colloids and Interface Science Communications</i> , 2021, 42, 100430.	2.0	6
9	Direct numerical simulation of permeation of particles through a realistic fibrous filter obtained from X-ray computed tomography images utilizing signed distance function. <i>Powder Technology</i> , 2021, 385, 131-143.	2.1	17
10	Effect of ion species on change in particle electrophoresis caused by change in applied electric field. <i>Colloids and Interface Science Communications</i> , 2021, 43, 100462.	2.0	0
11	Effects of NO ₂ gas concentration on the degradation of polyphenylene sulfide non-woven bag filter at high temperature. <i>Advanced Powder Technology</i> , 2021, 32, 3278-3287.	2.0	8
12	Influence of pulse-jet cleaning interval on performance of compact dust collector with pleated filter. <i>Separation and Purification Technology</i> , 2021, 279, 119688.	3.9	16
13	Distributions of Fiber Mass, Air Permeability, and Filter Efficiency in Nonwoven Fabric Bag Filters. <i>Chemical Engineering and Technology</i> , 2021, 44, 535-541.	0.9	12
14	Direct numerical simulation and experimental validation of flow resistivity of nonwoven fabric filter. <i>AIChE Journal</i> , 2020, 66, e16832.	1.8	17
15	Microwave direct denitration for synthesis of Cu-Ce-Zr-O composite oxide and its characterization. <i>Powder Technology</i> , 2020, 362, 26-31.	2.1	3
16	Electrophoretic classification based on differences in electrophoretic mobility caused by change in the applied electric field. <i>Powder Technology</i> , 2020, 362, 586-590.	2.1	2
17	Utilization of woody biomass combustion fly ash as a filler in the glue used for plywood production. <i>Advanced Powder Technology</i> , 2020, 31, 4482-4490.	2.0	6
18	Micro-transfer patterning of dense nanoparticle layers: roles of rheology, adhesion and fracture in transfer dynamics. <i>Soft Matter</i> , 2020, 16, 3276-3284.	1.2	6

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19	Phase-Field Simulation of the Coalescence of Droplets Permeating through a Fibrous Filter Obtained from X-ray Computed Tomography Images: Effect of the Filter Microstructure. <i>Langmuir</i> , 2020, 36, 4711-4720.	1.6	18
20	Numerical Analysis of Filter Collection Coordinated with Imaging. <i>Hosokawa Powder Technology Foundation ANNUAL REPORT</i> , 2020, 27, 19-24.	0.0	0
21	Numerical Simulation of Emulsion Permeating through Fibrous Filter in Coalescer. <i>Japanese Journal of Multiphase Flow</i> , 2020, 34, 310-317.	0.1	1
22	Semiphenomenological model to predict hardening of solid-liquid-liquid systems by liquid bridges. <i>Granular Matter</i> , 2019, 21, 1.	1.1	3
23	Mechanisms of Adhesive Micropatterning of Functional Colloid Thin Layers. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 40602-40612.	4.0	11
24	A continuous-flow exposure method to determine degradation of polyphenylene sulfide non-woven bag-filter media by NO ₂ gas at high temperature. <i>Advanced Powder Technology</i> , 2019, 30, 2881-2889.	2.0	14
25	Existence Form of Potassium Components in Woody Biomass Combustion Ashes and Estimation Method of Its Enrichment Degree. <i>Energy & Fuels</i> , 2018, 32, 517-524.	2.5	10
26	Synthesis of potassium-type zeolites by the reverse-micelle method with microwave heating. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 555, 532-538.	2.3	3
27	Simulation of Permeation of Colloidal Particle Dispersion through Membrane Pores in Microfiltration. <i>Journal of the Society of Powder Technology, Japan</i> , 2017, 54, 362-369.	0.0	3
28	The Effect of Membrane Material and Surface Pore Size on the Fouling Properties of Submerged Membranes. <i>Water (Switzerland)</i> , 2016, 8, 602.	1.2	33
29	Permeation of oil-in-water emulsions through coalescing filter: Two-dimensional simulation based on phase-field model. <i>AIChE Journal</i> , 2016, 62, 2525-2532.	1.8	27
30	Numerical simulation of coalescence phenomena of oil-in-water emulsions permeating through straight membrane pore. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 491, 70-77.	2.3	22
31	Preparation and characterization of antifouling poly(vinyl chloride-co-poly(ethylene glycol)methyl) Tj ETQq1 1 0.784314 rgBTJ /Overl 4.1 24		
32	Original Contribution Numerical Simulation of Membrane Permeation of Oil-in-Water Emulsions containing Surfactants. <i>Membrane</i> , 2015, 40, 155-160.	0.0	2
33	Preparation of hydrophilic vinyl chloride copolymer hollow fiber membranes with antifouling properties. <i>Applied Surface Science</i> , 2015, 324, 718-724.	3.1	27
34	Numerical Modeling of Concentration Polarization in Spacer-filled Channel with Permeation across Reverse Osmosis Membrane. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 1665-1674.	1.8	30
35	Effect of membrane polymeric materials on relationship between surface pore size and membrane fouling in membrane bioreactors. <i>Applied Surface Science</i> , 2015, 330, 351-357.	3.1	49
36	Preparation of a PVDF hollow fiber blend membrane via thermally induced phase separation (TIPS) method using new synthesized zwitterionic copolymer. <i>Desalination and Water Treatment</i> , 2015, 54, 2911-2919.	1.0	20

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37	Host manipulation by an ichneumonid spider ectoparasitoid that takes advantage of preprogrammed web-building behaviour for its cocoon protection. <i>Journal of Experimental Biology</i> , 2015, 218, 2326-2332.	0.8	39
38	Three-dimensional phase-field simulations of membrane porous structure formation by thermally induced phase separation in polymer solutions. <i>Journal of Membrane Science</i> , 2015, 483, 104-111.	4.1	48
39	Multiscale Simulation Method for Flow and Mass-Transfer Characteristics in a Reverse Osmosis Membrane Module. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 11413-11419.	1.8	2
40	Solidification Behavior of Polymer Solution during Membrane Preparation by Thermally Induced Phase Separation. <i>Membranes</i> , 2014, 4, 113-122.	1.4	25
41	Permeation of concentrated oil-in-water emulsions through a membrane pore: numerical simulation using a coupled level set and the volume-of-fluid method. <i>Soft Matter</i> , 2014, 10, 7985-7992.	1.2	41
42	Size and composition analyses of colloids in deep granitic groundwater using microfiltration/ultrafiltration while maintaining in situ hydrochemical conditions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 461, 279-286.	2.3	9
43	Effect of solidification rate of polymer solution on the die-swell during hollow fiber spinning by non-solvent induced phase separation. <i>Journal of Membrane Science</i> , 2014, 472, 194-201.	4.1	10
44	Improvement of Antifouling Properties of Polyvinylidene Fluoride Hollow Fiber Membranes by Simple Dip Coating of Phosphorylcholine Copolymer via Hydrophobic Interactions. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 2491-2497.	1.8	45
45	Preparation of Poly(vinyl chloride) Blend Hollow Fiber Membranes with Improved Antifouling Properties. <i>Membrane</i> , 2014, 39, 168-172.	0.0	0
46	Coordinated Numerical Simulation of Porous Membrane Formation by the Phase Field Method and Particulate-Laden Flow. <i>Kagaku Kogaku Ronbunshu</i> , 2014, 40, 230-233.	0.1	2
47	Direct Visualization of Fouling Inside a Hollow-Fiber Ultrafiltration Membrane Caused by Sodium Alginate. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 16375-16383.	1.8	13
48	Permeation of Dispersed Particles through a Pore and Transmembrane Pressure Behavior in Dead-End Constant-Flux Microfiltration by Two-Dimensional Direct Numerical Simulation. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 4650-4659.	1.8	25
49	Flow and heat transfer characteristics of ammonium alum hydrate slurries. <i>International Journal of Refrigeration</i> , 2013, 36, 81-87.	1.8	22
50	Solidification characteristics of polymer solution during polyvinylidene fluoride membrane preparation by nonsolvent-induced phase separation. <i>Journal of Membrane Science</i> , 2013, 438, 77-82.	4.1	25
51	Amino acid ionic liquid-based facilitated transport membranes for CO ₂ separation. <i>Chemical Communications</i> , 2012, 48, 6903.	2.2	135
52	Effect of water in ionic liquids on CO ₂ permeability in amino acid ionic liquid-based facilitated transport membranes. <i>Journal of Membrane Science</i> , 2012, 415-416, 168-175.	4.1	88
53	Fouling reduction of reverse osmosis membrane by surface modification via layer-by-layer assembly. <i>Separation and Purification Technology</i> , 2012, 99, 1-7.	3.9	119
54	Flow and Heat Transfer Characteristics of Ammonium Alum Hydrate Slurry Treated with Surfactants. <i>Journal of Chemical Engineering of Japan</i> , 2012, 45, 136-141.	0.3	9

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55	Effect of kinds of membrane materials on membrane fouling with BSA. Journal of Membrane Science, 2011, 384, 157-165.	4.1	133
56	Effects of three natural organic matter types on cellulose acetate butyrate microfiltration membrane fouling. Journal of Membrane Science, 2011, 379, 233-238.	4.1	68
57	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.	0.3	0
58	Flow and Heat Transfer Characteristics of Na ₂ HPO ₄ Hydrate Slurries. , 2010, , .		0
59	Development of a Liquid Film Model for the Evaporator in an Absorption Chiller. Kagaku Kogaku Ronbunshu, 2009, 35, 417-424.	0.1	1