

Kunihiro Fukui

List of Publications by Year in descending order

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128
papers

1,954
citations

279798

23
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37
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128
all docs

128
docs citations

128
times ranked

1177
citing authors

#	ARTICLE	IF	CITATIONS
1	Indium-tin oxide thin films prepared by chemical vapor deposition. Journal of Applied Physics, 1991, 70, 3848-3851.	2.5	149
2	Indium tin oxide thin films prepared by chemical vapour deposition. Thin Solid Films, 1991, 203, 297-302.	1.8	125
3	The effect of particle size distribution on effective zeta-potential by use of the sedimentation method. Advanced Powder Technology, 2015, 26, 650-656.	4.1	63
4	Effect of apex cone shape on fine particle classification of gas-cyclone. Powder Technology, 2010, 204, 54-62.	4.2	55
5	Influence of a laminarizer at the inlet on the classification performance of a cyclone separator. Separation and Purification Technology, 2017, 174, 408-416.	7.9	55
6	The effect of a new method of fluid flow control on submicron particle classification in gas-cyclones. Powder Technology, 2005, 149, 139-147.	4.2	51
7	Synthesis of zeolite from coal fly ash by microwave hydrothermal treatment with pulverization process. Advanced Powder Technology, 2017, 28, 798-804.	4.1	47
8	Effect of apex cone height on particle classification performance of a cyclone separator. Advanced Powder Technology, 2003, 14, 263-278.	4.1	46
9	Utilization of incineration fly ash from biomass power plants for zeolite synthesis from coal fly ash by hydrothermal treatment. Fuel Processing Technology, 2017, 167, 92-98.	7.2	46
10	Utilization of NaCl for phillipsite synthesis from fly ash by hydrothermal treatment with microwave heating. Advanced Powder Technology, 2009, 20, 35-40.	4.1	45
11	Effects of particle mass loading on the hydrodynamics and separation efficiency of a cyclone separator. Journal of the Taiwan Institute of Chemical Engineers, 2018, 90, 61-67.	5.3	45
12	Particle separation by linoya's type gas cyclone. Powder Technology, 2001, 118, 16-23.	4.2	42
13	Effects of microwave irradiation on the crystalline phase of zeolite synthesized from fly ash by hydrothermal treatment. Advanced Powder Technology, 2007, 18, 381-393.	4.1	42
14	Phillipsite synthesis from fly ash prepared by hydrothermal treatment with microwave heating. Advanced Powder Technology, 2006, 17, 369-382.	4.1	39
15	Improvement of gas-cyclone performance by use of local fluid flow control method. Powder Technology, 2009, 193, 6-14.	4.2	39
16	Classification performance analysis of a novel cyclone with a slit on the conical part by CFD simulation. Separation and Purification Technology, 2018, 190, 25-32.	7.9	38
17	Particle size measurement with an improved sedimentation balance method and microscopic method together with computer simulation of necessary sample size. Advanced Powder Technology, 2001, 12, 79-94.	4.1	35
18	Utilization of incineration fly ash from biomass power plants for zeolite synthesis from coal fly ash by microwave hydrothermal treatment. Advanced Powder Technology, 2018, 29, 450-456.	4.1	34

#	ARTICLE	IF	CITATIONS
19	Effect of conical length on separation performance of sub-micron particles by electrical hydro-cyclone. Powder Technology, 2012, 219, 29-36.	4.2	31
20	Effect of multi-inlet flow on particle classification performance of hydro-cyclones. Powder Technology, 2008, 184, 352-360.	4.2	30
21	Morphology of woody biomass combustion ash and enrichment of potassium components by particle size classification. Fuel Processing Technology, 2017, 156, 1-8.	7.2	28
22	Effect of inlet shape and slurry temperature on the classification performance of hydro-cyclones. Powder Technology, 2004, 140, 1-9.	4.2	27
23	Effect of ring shape attached on upper outlet pipe on fine particle classification of gas-cyclone. Separation and Purification Technology, 2015, 141, 84-93.	7.9	27
24	Effect of free air inflow method on fine particle classification of gas-cyclone. Separation and Purification Technology, 2013, 118, 670-679.	7.9	23
25	Fluorine-Doped Indium Oxide Thin Films Prepared by Chemical Vapor Deposition. Japanese Journal of Applied Physics, 1990, 29, L1705-L1707.	1.5	22
26	The Control of Particle Size Separation by the Use of a Hydrocyclone.. Journal of the Society of Powder Technology, Japan, 1997, 34, 690-696.	0.1	22
27	Particle Classification with Improved Hydro-cyclone Separator.. Journal of the Society of Powder Technology, Japan, 2001, 38, 626-632.	0.1	19
28	Separation performance of sub-micron silica particles by electrical hydrocyclone. Powder Technology, 2009, 196, 147-155.	4.2	19
29	Effect of Fly Ash Content on Zeolite Synthesis from Coal Fly Ash Prepared by Hydrothermal Treatment.. Kagaku Kogaku Ronbunshu, 2002, 28, 155-160.	0.3	19
30	Particle size measurement of standard reference particle candidates with improved size measurement devices. Advanced Powder Technology, 2003, 14, 17-31.	4.1	18
31	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. Langmuir, 2020, 36, 4711-4720.	3.5	18
32	Investigation about Data Reduction and Sedimentation Distance of Sedimentation Balance Method.. Journal of Chemical Engineering of Japan, 2000, 33, 393-399.	0.6	17
33	Particle separation performance by use of electrical hydro-cyclone. Separation and Purification Technology, 2006, 50, 330-335.	7.9	17
34	Improvement of particle separation performance by new type hydro cyclone. Separation and Purification Technology, 2016, 158, 223-229.	7.9	17
35	Direct numerical simulation and experimental validation of flow resistivity of nonwoven fabric filter. AIChE Journal, 2020, 66, e16832.	3.6	17
36	Direct numerical simulation of permeation of particles through a realistic fibrous filter obtained from X-ray computed tomography images utilizing signed distance function. Powder Technology, 2021, 385, 131-143.	4.2	17

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37	Zeolite Synthesis from Coal Fly Ash Prepared by Hydro-thermal Treatment Method and Effect of Particle Size on its Reaction Mechanism.. Kagaku Kogaku Ronbunshu, 1999, 25, 987-992.	0.3	16
38	Effects of NaOH Concentration on Zeolite Synthesis from Fly Ash with a Hydrothermal Treatment Method. Journal of the Society of Powder Technology, Japan, 2003, 40, 497-504.	0.1	16
39	AFM investigation of the surface properties of silica particles dispersed by bead milling. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 362, 97-101.	4.7	16
40	Influence of pulse-jet cleaning interval on performance of compact dust collector with pleated filter. Separation and Purification Technology, 2021, 279, 119688.	7.9	16
41	Effects of NaOH Concentration on Zeolite Synthesis from Fly Ash with a Hydrothermal Treatment Method [Translated]&sup>â€&sup>. KONA Powder and Particle Journal, 2006, 24, 183-191.	1.7	15
42	Effect of blade rotation on particle classification performance of hydro-cyclones. Powder Technology, 2006, 164, 103-110.	4.2	15
43	Classification of particles by centrifugal separator and analysis of the fluid behavior. Advanced Powder Technology, 2011, 22, 294-299.	4.1	15
44	Synthesis of calcium phosphate hydrogel from waste incineration fly ash and bone powder. Journal of Hazardous Materials, 2009, 163, 391-395.	12.4	14
45	A continuous-flow exposure method to determine degradation of polyphenylene sulfide non-woven bag-filter media by NO ₂ gas at high temperature. Advanced Powder Technology, 2019, 30, 2881-2889.	4.1	14
46	Synthesis of indium tin oxide powder by solid-phase reaction with microwave heating. Advanced Powder Technology, 2009, 20, 488-492.	4.1	13
47	Classification of Particles Dispersed by Bead Milling Using Electrical Field-Flow Fractionation. Journal of Chemical Engineering of Japan, 2009, 42, 720-727.	0.6	12
48	Mechanism of synthesis of metallic oxide powder from aqueous metallic nitrate solution by microwave denitration method. Chemical Engineering Journal, 2012, 211-212, 1-8.	12.7	12
49	Effect of new blade of centrifugal separator on particle separation performance. Separation and Purification Technology, 2016, 162, 120-126.	7.9	12
50	Effect of cold air stream injection on cyclone performance at high temperature. Separation and Purification Technology, 2017, 183, 293-303.	7.9	12
51	Effect of Surface Wettability on Droplet Coalescence and Pressure Drop in a Fibrous Filter: Direct Numerical Simulation Coordinated with X-ray Computed Tomography Images. Industrial & Engineering Chemistry Research, 2021, 60, 4168-4179.	3.7	12
52	Distributions of Fiber Mass, Air Permeability, and Filter Efficiency in Nonwoven Fabric Bag Filters. Chemical Engineering and Technology, 2021, 44, 535-541.	1.5	12
53	Improvement in Classification Performance of Gas-cyclone by Local Fluid Velocity Control. Journal of the Society of Powder Technology, Japan, 2005, 42, 401-408.	0.1	11
54	Effect of inner structure of centrifugal separator on particle classification performance. Powder Technology, 2009, 192, 268-272.	4.2	11

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55	Continuous fine particle classification by water elutriator with applied electro-potential. <i>Advanced Powder Technology</i> , 2009, 20, 398-405.	4.1	11
56	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.	3.5	11
57	A new method for the control of dilute suspension sedimentation by horizontal movement. <i>Powder Technology</i> , 2005, 150, 9-19.	4.2	10
58	Particle Classification Performance of Hydro-cyclone with Forced-vortex Type. <i>Journal of the Society of Powder Technology, Japan</i> , 2006, 43, 666-675.	0.1	10
59	Performance of fuel cell using calcium phosphate hydrogel membrane prepared from waste incineration fly ash and chicken bone powder. <i>Journal of Hazardous Materials</i> , 2009, 168, 1617-1621.	12.4	10
60	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.	5.1	10
61	Nickel oxide powder synthesis from aqueous solution of nickel nitrate hexahydrate by a microwave denitration method. <i>Advanced Powder Technology</i> , 2015, 26, 983-990.	4.1	9
62	Thermal Energy Storage, Heat Pump and Thermal Energy Transportation Technologies. Data Reduction in Measurement of Size Distribution using Sedimentation Balance Method.. <i>Kagaku Kogaku Ronbunshu</i> , 1998, 24, 928-933.	0.3	8
63	Continuous Fine Particle Classification by Water-Elutriator with Applied Electro-potential. <i>Journal of the Society of Powder Technology, Japan</i> , 2006, 43, 550-558.	0.1	8
64	Theoretical calculation of uncertainty region based on the general size distribution in the preparation of standard reference particles for particle size measurement. <i>Advanced Powder Technology</i> , 2012, 23, 185-190.	4.1	8
65	Effect of packing fraction on indium tin oxide powder synthesis via a solid-phase reaction with microwave heating. <i>Chemical Engineering Science</i> , 2013, 98, 17-24.	3.8	8
66	Classification Characteristics of a Cyclone Type Classifier with Improved Collection Boxes for Separating Particles near the Wall Surface. <i>Journal of Chemical Engineering of Japan</i> , 2017, 50, 492-500.	0.6	8
67	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.	4.1	8
68	Methods of Numerically Analyzing and Visually Measuring Transport Phenomena in Chemical Equipment. Fine Control of Cut Size with Dry Cyclone.. <i>Kagaku Kogaku Ronbunshu</i> , 2001, 27, 574-580.	0.3	8
69	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.	3.7	8
70	Effects of clean-air injection on particle-separation performance of novel cyclone with sintered metal cone. <i>Separation and Purification Technology</i> , 2011, 80, 356-363.	7.9	7
71	A new method of zeta-potential measurement by the use of the sedimentation balance method. <i>Powder Technology</i> , 2013, 237, 303-308.	4.2	7
72	Influence of the heating method on the particle characteristics of copper oxide powders synthesized from copper nitrate aqueous solutions. <i>Chemical Engineering Science</i> , 2016, 153, 108-116.	3.8	7

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73	Validation of measured microwave absorption and temperature change for development of a single-mode-type microwave heating thermogravimetry apparatus. Review of Scientific Instruments, 2017, 88, 024101.	1.3	7
74	Selective Synthesis of Phillipsite from Fly Ash of Low Silica Content by Hydrothermal Treatment.. Kagaku Kogaku Ronbunshu, 2003, 29, 299-304.	0.3	7
75	Simulation of Dynamic Characteristics of Closed-circuit Pulverization System.. Kagaku Kogaku Ronbunshu, 1999, 25, 59-65.	0.3	6
76	Selective Synthesis of Phillipsite from Fly Ash and Rice Husk Ash Prepared by Hydrothermal Treatment. Journal of the Society of Powder Technology, Japan, 2004, 41, 738-744.	0.1	6
77	Fine particle classification by a vertical type electrical water-sieve with various particle dispersion methods. Separation and Purification Technology, 2017, 175, 107-114.	7.9	6
78	Utilization of woody biomass combustion fly ash as a filler in the glue used for plywood production. Advanced Powder Technology, 2020, 31, 4482-4490.	4.1	6
79	Synthesis of NiCuZn ferrite nanoparticles from metallic nitrate solutions using the microwave direct denitration method and evaluation of its properties. Particulate Science and Technology, 2021, 39, 427-435.	2.1	6
80	Synthesis of zeolites with hierarchical porous structures using a microwave heating method. Colloids and Interface Science Communications, 2021, 42, 100430.	4.1	6
81	Enhancement of the Classification Performance of Electrical Field-Flow Fractionation Using Horizontal Electrophoresis. Journal of Chemical Engineering of Japan, 2011, 44, 398-404.	0.6	6
82	Improvement of Particle Collection Performance of Dry-Cyclone by Use of Local Fluid Flow Control Method. Kagaku Kogaku Ronbunshu, 2007, 33, 92-100.	0.3	6
83	Influence of pulse-jet cleaning pressure on performance of compact dust collector with pleated filter operated in clean-on-time mode. Advanced Powder Technology, 2022, 33, 103602.	4.1	6
84	Effect of Inlet Duct Shape on Particle Separation Performance of Cyclone Separator.. Journal of Chemical Engineering of Japan, 2000, 33, 273-276.	0.6	5
85	Synthesis of calcium phosphate hydrogel from waste incineration fly ash and its application to fuel cell. Journal of Environmental Management, 2009, 90, 2709-2714.	7.8	5
86	Development and Evaluation of a Cyclone Type Classifier for Separating Coarse Particles. Journal of the Society of Powder Technology, Japan, 2015, 52, 435-444.	0.1	5
87	Effects of Sintered Metal Cone Length on Gas Cyclone Classification Performance. Chemical Engineering and Technology, 2016, 39, 484-490.	1.5	5
88	Influence of the Behavior of Particles and Dispersion Medium on the Particle Size Measurement with the Sedimentation Balance Method.. Kagaku Kogaku Ronbunshu, 2002, 28, 161-167.	0.3	5
89	Synthesis of Calcium Phosphate Hydrogel from Waste Incineration Fly Ash. Kagaku Kogaku Ronbunshu, 2008, 34, 304-308.	0.3	5
90	Influence of wall properties on the morphological change of Sb ₂ O ₃ fine particles induced by impaction against a wall. Advanced Powder Technology, 1995, 6, 177-189.	4.1	4

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91	Improvement in the Purity and Yield of Phillipsite Synthesized from Incineration Ash with Multi-stages Synthesis Method. Journal of the Society of Powder Technology, Japan, 2005, 42, 31-38.	0.1	4
92	Classification of Particles Dispersed by Bead Milling with Electrophoresis. KONA Powder and Particle Journal, 2011, 29, 125-133.	1.7	4
93	Computation Transport Phenomena in Chemical Engineering. Three Dimensional Numerical Simulation in Cyclone Classifier Using Direct Method.. Kagaku Kogaku Ronbunshu, 1997, 23, 885-891.	0.3	3
94	Morphological Change of Hardened Oil Particles Induced by Impaction against a Solid Surface. Aerosol Science and Technology, 1997, 26, 343-355.	3.1	3
95	Analysis of Dynamic Characteristics and Optimum Control in Initial Stage of Closed-circuit Pulverization System.. Kagaku Kogaku Ronbunshu, 2000, 26, 654-660.	0.3	3
96	Effects of Pretreatments on Calcium Phosphate Hydrogel Synthesis from Waste Incineration Fly Ash. Journal of the Society of Powder Technology, Japan, 2008, 45, 684-689.	0.1	3
97	Improvement of Hydro-cyclone Performance by Use of Local Electrostatic Potential Field and Fluid Flow Control Method. Journal of the Society of Powder Technology, Japan, 2011, 48, 526-533.	0.1	3
98	Improvement of Particle Separation in Louver-type Separator by Use of Numerical Simulation. Journal of the Society of Powder Technology, Japan, 2015, 52, 252-259.	0.1	3
99	Synthesis of potassium-type zeolites by the reverse-micelle method with microwave heating. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 555, 532-538.	4.7	3
100	Component Separation in a Vibrating Fluidized Bed Based on Differences in Agglomeration Properties of Particles. Journal of Chemical Engineering of Japan, 2018, 51, 576-583.	0.6	3
101	Semiphenomenological model to predict hardening of solid-liquid systems by liquid bridges. Granular Matter, 2019, 21, 1.	2.2	3
102	Microwave direct denitration for synthesis of Cu-Ce-Zr-O composite oxide and its characterization. Powder Technology, 2020, 362, 26-31.	4.2	3
103	Morphological Change of Antimony Trioxide Fine Particles through Impaction, Compaction or Grinding.. Journal of the Society of Powder Technology, Japan, 1995, 32, 23-30.	0.1	2
104	The Effect of Environmental Temperature on the Compression Behavior of Tristearin Powder.. Journal of the Society of Powder Technology, Japan, 1997, 34, 499-507.	0.1	2
105	Effect of particle properties on the morphological change induced by impaction against a solid surface for tristearin powder mixed with hard particles. Advanced Powder Technology, 1999, 10, 295-313.	4.1	2
106	Effects of initial slurry concentration distribution on the particle size distribution measured with a sedimentation balance method. Advanced Powder Technology, 2004, 15, 181-200.	4.1	2
107	Synthesis Rate of Zeolite from Incineration Ash by Hydrothermal Treatment Method. Journal of the Society of Powder Technology, Japan, 2006, 43, 500-506.	0.1	2
108	Centrifugal Classification of Particles and Analysis of the Fluid Dynamics. Journal of the Society of Powder Technology, Japan, 2007, 44, 345-352.	0.1	2

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109	Experimental and Computational Study of Classification of Particles by Improved Centrifugal Separator. Journal of the Society of Powder Technology, Japan, 2007, 44, 861-867.	0.1	2
110	Effect of Inlet Clean Air and Guide Plate on Fine Particle Classification of Gas-cyclone. Journal of the Society of Powder Technology, Japan, 2014, 51, 614-622.	0.1	2
111	Fine Particle Classification by Vertical Type Water-sieve with Electro-potential Applied to Flow. Journal of the Society of Powder Technology, Japan, 2014, 51, 68-76.	0.1	2
112	Effect of Solids Loading on the Performance of a Cyclone Type Classifier for Separating Coarse Particles. Journal of the Society of Powder Technology, Japan, 2017, 54, 390-397.	0.1	2
113	Electrophoretic classification based on differences in electrophoretic mobility caused by change in the applied electric field. Powder Technology, 2020, 362, 586-590.	4.2	2
114	Study of Stabilizing Conditions for Closed-circuit Pulverization System.. Kagaku Kogaku Ronbunshu, 2002, 28, 36-42.	0.3	2
115	Particle Classification of Fly Ash Using a Modified Louver-type Separator and Reduction of Unburned Carbon Amount [Translated]. KONA Powder and Particle Journal, 2000, 18, 221-229.	1.7	2
116	Zeolite Synthesis from Coal Fly Ash Prepared by Hydrothermal Treatment Method and Effect of Particle Size on Its Reaction Mechanism [Translated]. KONA Powder and Particle Journal, 2001, 19, 232-239.	1.7	1
117	Effect of Multi-Inlet Flow on Particle Classification Performance of Hydro-Cyclones and New Estimating Equation. Journal of Chemical Engineering of Japan, 2008, 41, 756-765.	0.6	1
118	Separation of Unburned Carbon in Fly Ash Particles Using Special Louver Separator. Journal of Chemical Engineering of Japan, 2011, 44, 146-154.	0.6	1
119	Wet Classification of a Submicron Silica Particle Using Counter-Electrophoresis and Orthogonal-Electrophoresis Method. Journal of the Society of Powder Technology, Japan, 2017, 54, 17-22.	0.1	1
120	Effect of Packing Structure on Separation Performance of Packed Bed.. Kagaku Kogaku Ronbunshu, 1998, 24, 37-41.	0.3	0
121	Erratum to "Continuous fine particle classification by water elutriator with applied electro-potential" [Adv. Powder Technol. 20 (2009) 398-405]. Advanced Powder Technology, 2009, 20, 509.	4.1	0
122	Investigation of Particle Collection and De-sulfurization Performance by Modified Axial Flow Cyclone. Journal of the Society of Powder Technology, Japan, 2009, 46, 681-687.	0.1	0
123	Control of Product Particle Size by Closed-circuit Pulverization System.. Kagaku Kogaku Ronbunshu, 2003, 29, 272-277.	0.3	0
124	Selective Synthesis of Phillipsite from Fly Ash and Rice Husk Ash Prepared by Hydrothermal Treatment. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2005, 13, 131-131.	0.0	0
125	Synthesis of Fast Proton Conductor from Waste Incineration Ash. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2007, 15, 58-61.	0.0	0
126	Development of Microwave Heating Thermogravimetry Apparatus and Its Application to Synthesis of Functional Powder. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2018, 26, 149-152.	0.0	0

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127	Numerical Study on Mechanism of Aerosol Permeation through Filter. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2020, 27, 173-177.	0.0	0
128	Evaluation of the Characteristics of Metal Nitrate Aqueous Solutions by Microwave Heating and the Morphologies of Synthesized Metal Oxide Powders. Journal of the Society of Powder Technology, Japan, 2020, 57, 485-494.	0.1	0