Tetsuya Yamamoto

List of Publications by Year
in descending order

119	1,816	304368	344852
papers	citations	22 h-index	36 g-index

121	121	121	1373
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Overview of automotive structural composites technology developments in Japan. Composites Science and Technology, 2018, 155, 221-246.	3.8	210
2	Controlled synthesis of high performance polyamide membrane with thin dense layer for water desalination. Journal of Membrane Science, 2010, 362, 76-80.	4.1	169
3	Growth mechanism of soap-free polymerization of styrene investigated by AFM. Journal of Colloid and Interface Science, 2006, 297, 112-121.	5.0	65
4	Effect of apex cone shape on fine particle classification of gas-cyclone. Powder Technology, 2010, 204, 54-62.	2.1	55
5	Synthesis of micron-sized polymeric particles in soap-free emulsion polymerization using oil-soluble initiators and electrolytes. Colloid and Polymer Science, 2012, 290, 1023-1031.	1.0	48
6	Utilization of NaCl for phillipsite synthesis from fly ash by hydrothermal treatment with microwave heating. Advanced Powder Technology, 2009, 20, 35-40.	2.0	45
7	Controlling of the interfacial shear strength between thermoplastic resin and carbon fiber by adsorbing polymer particles on carbon fiber using electrophoresis. Composites Part A: Applied Science and Manufacturing, 2016, 88, 75-78.	3.8	45
8	Effects of microwave irradiation on the crystalline phase of zeolite synthesized from fly ash by hydrothermal treatment. Advanced Powder Technology, 2007, 18, 381-393.	2.0	42
9	Improvement of gas-cyclone performance by use of local fluid flow control method. Powder Technology, 2009, 193, 6-14.	2.1	39
10	Molecular-Scale Observation of Formation of Nuclei in Soap-Free Polymerization of Styrene. Langmuir, 2004, 20, 4400-4405.	1.6	37
11	Molecular-scale observation of the surface of polystyrene particles by AFM. Journal of Colloid and Interface Science, 2005, 292, 392-396.	5.0	37
12	Improved mechanical properties of PMMA composites: Dispersion, diffusion and surface adhesion of recycled carbon fiber fillers from CFRP with adsorbed particulate PMMA. Advanced Powder Technology, 2017, 28, 2774-2778.	2.0	32
13	Effect of conical length on separation performance of sub-micron particles by electrical hydro-cyclone. Powder Technology, 2012, 219, 29-36.	2.1	31
14	Effect of multi-inlet flow on particle classification performance of hydro-cyclones. Powder Technology, 2008, 184, 352-360.	2.1	30
15	Initial growth process of polystyrene particle investigated by AFM. Journal of Colloid and Interface Science, 2006, 299, 493-496.	5.0	28
16	Soap-free emulsion polymerization of aromatic vinyl monomer using AIBN. Colloid and Polymer Science, 2012, 290, 1833-1835.	1.0	27
17	Hydrodynamic boundary condition of water on hydrophobic surfaces. Physical Review E, 2013, 87, 051001.	0.8	26
18	Effect of electrolyte species on size of particle through soap-free emulsion polymerization of styrene using AIBN and electrolyte. Colloid and Polymer Science, 2015, 293, 1003-1006.	1.0	26

#	Article	IF	Citations
19	AFM Observation of Growing Poly Isobutyl Methacrylate (PiBMA) Particles. Chemistry Letters, 2004, 33, 1440-1441.	0.7	25
20	Synthesis of nearly micron-sized particles by soap-free emulsion polymerization of methacrylic monomer using an oil-soluble initiator. Colloid and Polymer Science, 2013, 291, 2741-2744.	1.0	25
21	Effect of free air inflow method on fine particle classification of gas-cyclone. Separation and Purification Technology, 2013, 118, 670-679.	3.9	23
22	Relationship between surface potential and particle size in soap-free emulsion copolymerization of styrene and methyl methacrylate using a water- or oil-soluble initiator. Colloid and Polymer Science, 2016, 294, 281-284.	1.0	23
23	Enhancement of bending strength, thermal stability and recyclability of carbon-fiber-reinforced thermoplastics by using silica colloids. Composites Science and Technology, 2019, 181, 107665.	3.8	22
24	Phase separation driven by production of architectural RNA transcripts. Soft Matter, 2020, 16, 4692-4698.	1.2	22
25	Separation performance of sub-micron silica particles by electrical hydrocyclone. Powder Technology, 2009, 196, 147-155.	2.1	19
26	Antimicrobial activities of low molecular weight polymers synthesized through soap-free emulsion polymerization. European Polymer Journal, 2018, 109, 532-536.	2.6	18
27	Particle size control in the soap-free emulsion polymerization of styrene by an oil-soluble initiator with a weakly acidic water-soluble initiator. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 502, 1-5.	2.3	17
28	Improvement of particle separation performance by new type hydro cyclone. Separation and Purification Technology, 2016, 158, 223-229.	3.9	17
29	Elaborate Classification of Flyash Particles by Bench Scale Air Cyclone.. Kagaku Kogaku Ronbunshu, 1997, 23, 363-370.	0.1	16
30	Nucleation and Growth Process of Polystyrene Particle Investigated by AFM. Journal of Chemical Engineering of Japan, 2006, 39, 596-603.	0.3	16
31	Growth processes of poly methylmethacrylate particles investigated by atomic force microscopy. Advanced Powder Technology, 2007, 18, 567-577.	2.0	16
32	Influence of inlet flow rate, pH, and beads mill operating condition on separation performance of sub-micron particles by electrical hydrocyclone. Advanced Powder Technology, 2010, 21, 246-255.	2.0	16
33	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.	2.3	16
34	Enhancement of surface adhesion between thermoplastic resin and carbon fiber using polymer colloids. Journal of Adhesion, 2017, 93, 943-948.	1.8	16
35	Dispersion of carbon nanofibers modified with polymer colloids to enhance mechanical properties of PVA nanocomposite film. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 556, 248-252.	2.3	16
36	Classification of particles by centrifugal separator and analysis of the fluid behavior. Advanced Powder Technology, 2011, 22, 294-299.	2.0	15

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37	Surfactant-Free Decellularization of Porcine Aortic Tissue by Subcritical Dimethyl Ether. ACS Omega, 2021, 6, 13417-13425.	1.6	15
38	Synthesis of calcium phosphate hydrogel from waste incineration fly ash and bone powder. Journal of Hazardous Materials, 2009, 163, 391-395.	6.5	14
39	Design of polymer particles maintaining dispersion stability for the synthesis of hollow silica particles through sol-gel reaction on polymer surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 553, 66-70.	2.3	14
40	A polymer colloidal technique for enhancing bending properties of carbon fiber-reinforced thermoplastics using nylon modifier. Composites Part A: Applied Science and Manufacturing, 2018, 112, 250-254.	3.8	14
41	Synthesis of indium tin oxide powder by solid-phase reaction with microwave heating. Advanced Powder Technology, 2009, 20, 488-492.	2.0	13
42	Classification of Particles Dispersed by Bead Milling Using Electrical Field-Flow Fractionation. Journal of Chemical Engineering of Japan, 2009, 42, 720-727.	0.3	12
43	Particle size measurement of standard reference particle candidates and theoretical estimation of uncertainty region. Advanced Powder Technology, 2009, 20, 145-149.	2.0	12
44	Mechanism of synthesis of metallic oxide powder from aqueous metallic nitrate solution by microwave denitration method. Chemical Engineering Journal, 2012, 211-212, 1-8.	6.6	12
45	Effect of Counter Ionic Radius in Initiator on Particle Size in Soap-free Emulsion Polymerization of Styrene. Chemistry Letters, 2015, 44, 824-825.	0.7	12
46	Effect of new blade of centrifugal separator on particle separation performance. Separation and Purification Technology, 2016, 162, 120-126.	3.9	12
47	Synthesis of composite polymer particles with carbon nanotubes and evaluation of their mechanical properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 529, 765-770.	2.3	12
48	Transcription dynamics stabilizes nucleus-like layer structure in chromatin brush. Soft Matter, 2017, 13, 5307-5316.	1.2	12
49	Antimicrobial Activities of Polymers Synthesized through Soap-free Emulsion Polymerization Using a Cationic Initiator and Styrene Derivative Monomers. Chemistry Letters, 2018, 47, 1402-1404.	0.7	12
50	Effects of carbon nanofibers on carbon fiber reinforced thermoplastics made with in situ polymerizable polyamide 6. Composites Part A: Applied Science and Manufacturing, 2020, 138, 106051.	3.8	12
51	Effect of inner structure of centrifugal separator on particle classification performance. Powder Technology, 2009, 192, 268-272.	2.1	11
52	Continuous fine particle classification by water elutriator with applied electro-potential. Advanced Powder Technology, 2009, 20, 398-405.	2.0	11
53	Synthesis of hydrocolloid through polymerization of styrene and N-vinyl acetamide by AIBN. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 516, 80-84.	2.3	11
54	Enhancement of mechanical properties of carbon fiber reinforced thermoplastic using colloidal techniques. Procedia Manufacturing, 2018, 15, 1738-1745.	1.9	11

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55	Synthesis of dimpled and submicron-sized polymer particles of different morphologies using free micromixer. Colloids and Interface Science Communications, 2019, 32, 100193.	2.0	11
56	Performance of fuel cell using calcium phosphate hydrogel membrane prepared from waste incineration fly ash and chicken bone powder. Journal of Hazardous Materials, 2009, 168, 1617-1621.	6.5	10
57	Use of hollow colloids for generating nanovoids to mitigate the brittle fracture of carbon fiber-reinforced thermoplastics. Composites Part A: Applied Science and Manufacturing, 2021, 149, 106506.	3.8	10
58	Origin of the apparent long-range attractive force between surfaces in cyclohexane. Advanced Powder Technology, 2002, 13, 149-156.	2.0	9
59	Effect of the Amount of Ï€ Electrons in Aromatic Monomer on the Surface Potential of Polymeric Particles Obtained through Soap-free Emulsion Polymerization Using AIBN. Chemistry Letters, 2015, 44, 1555-1556.	0.7	9
60	Synthesis of polystyrene@silica particles through soap-free emulsion polymerization and sol-gel reaction on polymer surfaces. Advanced Powder Technology, 2019, 30, 214-218.	2.0	9
61	Creating a laminated carbon fiber-reinforced thermoplastic using polypropylene and nylon with a polypropylene colloid. Composite Structures, 2021, 255, 113038.	3.1	9
62	Continuous Fine Particle Classification by Water-Elutriator with Applied Electro-potential. Journal of the Society of Powder Technology, Japan, 2006, 43, 550-558.	0.0	8
63	Molecularâ€scale investigation of polymerization, nucleation, and growth of polystyrene particle by atomic force microscopy. Asia-Pacific Journal of Chemical Engineering, 2008, 3, 239-249.	0.8	8
64	Theoretical calculation of uncertainty region based on the general size distribution in the preparation of standard reference particles for particle size measurement. Advanced Powder Technology, 2012, 23, 185-190.	2.0	8
65	Effect of packing fraction on indium tin oxide powder synthesis via a solid-phase reaction with microwave heating. Chemical Engineering Science, 2013, 98, 17-24.	1.9	8
66	Large Network Swelling and Solvent Redistribution Are Necessary for Polymer Gels to Show Negative Normal Stress. ACS Macro Letters, 2017, 6, 512-514.	2.3	8
67	In-situ Adsorption of Polymer Particles on Multi-wall Carbon Nanotubes Using Colloidal Techniques. Colloids and Interface Science Communications, 2017, 20, 1-4.	2.0	8
68	Effects of clean-air injection on particle-separation performance of novel cyclone with sintered metal cone. Separation and Purification Technology, 2011, 80, 356-363.	3.9	7
69	A new method of zeta-potential measurement by the use of the sedimentation balance method. Powder Technology, 2013, 237, 303-308.	2.1	7
70	Anomalous particle through soap-free emulsion polymerization of styrene using oil-soluble initiator. Journal of Polymer Research, 2017, 24, 1.	1.2	7
71	Synthesis of porous carbon hollow particles maintaining their structure using hyper-cross-linked Poly(St-DVB) hollow particles. Advanced Powder Technology, 2020, 31, 614-620.	2.0	7
72	Simulation of Dynamic Characteristics of Closed-circuit Pulverization System.. Kagaku Kogaku Ronbunshu, 1999, 25, 59-65.	0.1	6

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73	Size Control of Polymeric Particle in Soap-Free Emulsion Polymerization. KONA Powder and Particle Journal, 2018, 35, 66-79.	0.9	6
74	Dilution of contact frequency between superenhancers by loop extrusion at interfaces. Soft Matter, 2019, 15, 7635-7643.	1.2	6
75	Enhancement of the Classification Performance of Electrical Field-Flow Fractionation Using Horizontal Electrophoresis. Journal of Chemical Engineering of Japan, 2011, 44, 398-404.	0.3	6
76	Synthesis of calcium phosphate hydrogel from waste incineration fly ash and its application to fuel cell. Journal of Environmental Management, 2009, 90, 2709-2714.	3.8	5
77	Particle size measurement of reference particle candidates and uncertainty region of count and mass based cumulative distribution. Advanced Powder Technology, 2014, 25, 1748-1753.	2.0	5
78	Synthesis and Electrical Properties of Composite Films Comprising Polymer Particles and Carbon Nanotubes. Colloids and Interface Science Communications, 2017, 20, 5-8.	2.0	5
79	Preparation of PVA/Polymer Colloid nanocomposite Hydrogel Using PS-PNVA Particles. Chemistry Letters, 2019, 48, 378-381.	0.7	5
80	Relationship between dispersion-forming capability of poly(4-vinylaniline) colloids and antimicrobial activity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 596, 124736.	2.3	5
81	Improved metal-resin adhesion via electroplating-induced polymer particle adsorption. Surface and Coatings Technology, 2020, 388, 125591.	2.2	5
82	Synthesis of Activated Carbon Using Bagasse and Recycled Carbon Fibers. Chemical Engineering and Technology, 2021, 44, 1618-1622.	0.9	5
83	Synthesis of Calcium Phosphate Hydrogel from Waste Incineration Fly Ash. Kagaku Kogaku Ronbunshu, 2008, 34, 304-308.	0.1	5
84	Classification of Particles Dispersed by Bead Milling with Electrophoresis. KONA Powder and Particle Journal, 2011, 29, 125-133.	0.9	4
85	Relaxation Dynamics of the Normal Stress of Polymer Gels. Macromolecules, 2017, 50, 5208-5213.	2.2	4
86	Effect of Initiator Charge on Dispersion Stability of Polymer Particles Formed by Soap-free Emulsion Polymerization of 4-Vinylaniline or 4-Vinylpyridine. Chemistry Letters, 2019, 48, 208-210.	0.7	4
87	Making hollows using nitrogen gas emitted by the decomposition of VAm-110 in polystyrene particles. Polymer, 2020, 202, 122761.	1.8	4
88	Size Control of Polystyrene Nanoparticles Synthesized in Melamine Foam. Industrial & Engineering Chemistry Research, 2020, 59, 17927-17933.	1.8	4
89	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.	0.0	3
90	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.	0.0	3

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91	Influence of the size of polystyrene synthesized through soap-free emulsion polymerization on antimicrobial activity. Materials Today Communications, 2019, 20, 100572.	0.9	3
92	Decomposing Oil-Soluble Initiators in Particles: A Template-Free Method for the Preparation of Hollow Polymer and Silica Particles. ACS Omega, 2021, 6, 31677-31682.	1.6	3
93	Centrifugal Classification of Particles and Analysis of the Fluid Dynamics. Journal of the Society of Powder Technology, Japan, 2007, 44, 345-352.	0.0	2
94	Experimental and Computational Study of Classification of Particles by Improved Centrifugal Separator. Journal of the Society of Powder Technology, Japan, 2007, 44, 861-867.	0.0	2
95	Theoretical calculation of fundamental uncertainty region based on the maximum and/or the minimum size in the preparation of standard reference particles for particle size measurement. Advanced Powder Technology, 2011, 22, 43-49.	2.0	2
96	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.	0.0	2
97	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.	0.0	2
98	Nanosizing of polymeric particles by suppressing growth via heterocoagulation using a 3D micro-network reactor. Powder Technology, 2022, 405, 117530.	2.1	2
99	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.	0.3	1
100	Shear induced formation of lubrication layers of negative normal stress gels. Soft Matter, 2017, 13, 6515-6520.	1.2	1
101	Controlling Porous Hollow Silica Particles through Soap-free Emulsion Polymerization with Polymer Core Particles. Chemistry Letters, 2019, 48, 1229-1231.	0.7	1
102	Fracture strain of composite with nonuniformly distributed reinforcing fibers. Journal of Rheology, 2020, 64, 933-939.	1.3	1
103	Synthesis of Polystyrene Nanoparticles using Thermally Reversible Hydrogel as Polymerization Field. Kagaku Kogaku Ronbunshu, 2021, 47, 11-16.	0.1	1
104	Separation of Unburned Carbon in Fly Ash Particles Using Special Louver Separator. Journal of Chemical Engineering of Japan, 2011, 44, 146-154.	0.3	1
105	Stress Graphitization Behavior of c/c Composites Fabricated from Milled Short Pitch-Based Carbon Fibers and their Electrical Properties. Journal of Fiber Science and Technology, 2012, 77, 296-304.	0.2	1
106	Structural design to enhance mechanical properties of carbon-fiber-reinforced thermoplastics using colloidal particles and soft and hard resins. Composites Part C: Open Access, 2021, 6, 100211.	1.5	1
107	Erratum to â€œContinuous fine particle classification by water elutriator with applied electro-potentialâ€•[Adv. Powder Technol. 20 (2009) 398â€“405]. Advanced Powder Technology, 2009, 20, 509.	2.0	0
108	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.	0.0	0

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109	Theoretical calculation of uncertainty region for spherical particles based on a picket fence, quasi-monodisperse particles. Advanced Powder Technology, 2014, 25, 524-529.	2.0	0
110	Development of Colloidal Technique for Enhancement of Performance of Carbon Fiber Reinforced Thermoplastic. Journal of the Society of Powder Technology, Japan, 2016, 53, 785-790.	0.0	0
111	Controlling the particle cut size of a dry cyclone using acetone. Particulate Science and Technology, 2017, 35, 214-218.	1.1	0
112	Effect of the surface properties of particle on the classification performance of a dry-cyclone. Particulate Science and Technology, 2018, 36, 46-49.	1.1	0
113	Dispersion of Nano-materials in Polymer Composite Materials. MATEC Web of Conferences, 2021, 333, 11003.	0.1	0
114	Development of Multi-functional Materials Using Carbon Fibers Recycled from CFRP. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2021, 28, 103-108.	0.0	0
115	é«˜å^†åå¾®ç²’åã®æ‰”Ÿæ^ãƒ»æ^é•·éŽç¨‹ã®ï¼¡ï¼¦ï¼è¦³å¯Ÿ. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2005, 13,	0.0	0
116	Development of Novel Technique for Separation, Classification and Surface Modification of Particles using Dry-Cyclone with Mist. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2013, 21, 101-106.	0.0	0
117	Development of Techniques for Dispersion of Hydrophobic Powder in Water Using Particles. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2017, 25, 113-118.	0.0	0
118	Synthesis of Porous Carbon Hollow Particles from Polymer Hollow Particles. Journal of the Society of Powder Technology, Japan, 2020, 57, 412-416.	0.0	0
119	Size Control of Polymer Nanoparticles Using 3D Network Structure as a Reaction Field. Journal of the Society of Powder Technology, Japan, 2021, 58, 481-485.	0.0	0