

Motoyuki Iijima

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69

papers

1,017

citations

16

h-index

29

g-index

71

ext. papers

1,130

ext. citations

4.3

avg, IF

4.55

L-index

#	Paper	IF	Citations
69	Surface Modification for Improving the Stability of Nanoparticles in Liquid Media. <i>KONA Powder and Particle Journal</i> , 2009 , 27, 119-129	3.4	92
68	Effect of particle size on surface modification of silica nanoparticles by using silane coupling agents and their dispersion stability in methylethylketone. <i>Journal of Colloid and Interface Science</i> , 2007 , 307, 418-24	9.3	82
67	Surface modification of BaTiO ₃ particles by silane coupling agents in different solvents and their effect on dielectric properties of BaTiO ₃ /epoxy composites. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009 , 352, 88-93	5.1	76
66	Surface modification and characterization for dispersion stability of inorganic nanometer-scaled particles in liquid media. <i>Science and Technology of Advanced Materials</i> , 2010 , 11, 044304	7.1	66
65	Anionic surfactant with hydrophobic and hydrophilic chains for nanoparticle dispersion and shape memory polymer nanocomposites. <i>Journal of the American Chemical Society</i> , 2009 , 131, 16342-3	16.4	61
64	Surface Modification of Silicon Carbide Nanoparticles by Azo Radical Initiators. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 11786-11790	3.8	60
63	Tuning the stability of TiO ₂ nanoparticles in various solvents by mixed silane alkoxides. <i>Journal of Colloid and Interface Science</i> , 2009 , 337, 61-5	9.3	50
62	Layer-by-layer surface modification of functional nanoparticles for dispersion in organic solvents. <i>Langmuir</i> , 2010 , 26, 17943-8	4	40
61	Effect of surface interaction of silica nanoparticles modified by silane coupling agents on viscosity of methylethylketone suspension. <i>Journal of Colloid and Interface Science</i> , 2007 , 305, 315-23	9.3	40
60	Direct measurement of interactions between stimulation-responsive drug delivery vehicles and artificial mucin layers by colloid probe atomic force microscopy. <i>Langmuir</i> , 2008 , 24, 3987-92	4	36
59	Effect of structure of cationic dispersants on stability of carbon black nanoparticles and further processability through layer-by-layer surface modification. <i>Chemical Engineering Science</i> , 2013 , 85, 30-37	4.4	25
58	Electrophoretic packing structure from aqueous nanoparticle suspension in pulse DC charging. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010 , 360, 13-19	5.1	21
57	PolyethyleneimineOleic Acid Complex as a Polymeric Dispersant for Si ₃ N ₄ and Si ₃ N ₄ -Based Multicomponent Nonaqueous Slurries. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 12847-12854	3.9	20
56	Microstructure control of iron hydroxide nanoparticles using surfactants with different molecular structures. <i>Journal of Colloid and Interface Science</i> , 2006 , 298, 202-8	9.3	20
55	Preparation of agglomeration-free hematite particles coated with silica and their reduction behavior in hydrogen. <i>Journal of Colloid and Interface Science</i> , 2005 , 287, 526-33	9.3	17
54	Spark plasma sintering of silicon nitride using nanocomposite particles. <i>Advanced Powder Technology</i> , 2017 , 28, 37-42	4.6	16
53	Effect of fatty acids complexed with polyethyleneimine on the flow curves of TiO ₂ nanoparticle/toluene suspensionsPeer review under responsibility of The Ceramic Society of Japan and the Korean Ceramic Society.View all notes. <i>Journal of Asian Ceramic Societies</i> , 2016 , 4, 277-281	2.4	16

52	Analysis of dispersion and aggregation behavior of carbon black particles in aqueous suspension by colloid probe AFM method. <i>Advanced Powder Technology</i> , 2013 , 24, 844-851	4.6	15
51	Effect of additive ratio of mixed silane alkoxides on reactivity with TiO ₂ nanoparticle surface and their stability in organic solvents. <i>Advanced Powder Technology</i> , 2011 , 22, 663-668	4.6	14
50	Rapid three-dimensional structuring of transparent SiO ₂ glass using interparticle photo-cross-linkable suspensions. <i>Communications Materials</i> , 2020 , 1,	6	13
49	Free-standing, roll-able, and transparent silicone polymer film prepared by using nanoparticles as cross-linking agents. <i>Advanced Powder Technology</i> , 2013 , 24, 625-631	4.6	11
48	Iron nanoparticles dispersible in both ethanol and water for direct silica coating. <i>Powder Technology</i> , 2009 , 196, 80-84	5.2	11
47	Electrical-driven disaggregation of the two-dimensional assembly of colloidal polymer particles under pulse DC charging. <i>Advanced Powder Technology</i> , 2010 , 21, 534-541	4.6	11
46	SiO ₂ nanoparticles surface modified with polyethyleneimine-oleic acid complex as stabilizers of Ni fine particles in dense nonaqueous suspensions. <i>Advanced Powder Technology</i> , 2017 , 28, 30-36	4.6	10
45	Rapid magnetic catch-and-release purification by hydrophobic interactions. <i>Langmuir</i> , 2009 , 25, 11043-74	4	10
44	Multi-scale laser direct writing of conductive metal microstructures using a 405-nm blue laser. <i>Optics Express</i> , 2020 , 28, 8363-8370	3.3	10
43	Fabrication of Si ₃ N ₄ ceramics by post-reaction sintering using Si ₃ N ₄ /Al ₂ O ₃ nanocomposite particles prepared by mechanical treatment. <i>Ceramics International</i> , 2016 , 42, 11554-11561	5.1	10
42	Hydrophobic Group Functionalization of Polyethyleneimine for Controlling Dispersion Behavior of Silicon Carbide Nanoparticles in Aqueous Suspension. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 3448-3454	3.8	9
41	Electrostatic Deposition of Aerosol Particles Generated from an Aqueous Nanopowder Suspension on a Chemically Treated Substrate. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 06GH17	1.4	9
40	Prediction of strength based on defect analysis in Al ₂ O ₃ ceramics via non-destructive and three-dimensional observation using optical coherence tomography. <i>Journal of the Ceramic Society of Japan</i> , 2019 , 127, 462-468	1	9
39	Measurement of mechanical properties of BaTiO ₃ layer in multi-layered ceramic capacitor using a microcantilever beam specimen. <i>Journal of the Ceramic Society of Japan</i> , 2019 , 127, 335-338	1	8
38	Dispersion Behavior of Barium Titanate Nanoparticles Prepared by Using Various Polycarboxylic Dispersants. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 2741-2746	3.8	8
37	Low-temperature synthesis of redispersible iron oxide nanoparticles under atmospheric pressure and ultradense reagent concentration. <i>Powder Technology</i> , 2008 , 181, 45-50	5.2	8
36	3D structuring of dense alumina ceramics using fiber-based stereolithography with interparticle photo-cross-linkable slurry. <i>Advanced Powder Technology</i> , 2021 , 32, 72-79	4.6	8
35	Dislocation-controlled microscopic mechanical phenomena in single crystal silicon under bending stress at room temperature. <i>Journal of Materials Science</i> , 2020 , 55, 7359-7372	4.3	7

34	Non-aqueous colloidal processing route for fabrication of highly dispersed aramid nanofibers attached with Ag nanoparticles and their stability in epoxy matrixes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015 , 482, 195-202	5.1	7
33	Microstructure of iron particles reduced from silica-coated hematite in hydrogen. <i>Advanced Powder Technology</i> , 2005 , 16, 621-637	4.6	7
32	Fabrication of c-axis oriented Si ₃ N ₄ ceramics using multilayered-graphene-coated Si ₃ N ₄ seeds and their orientation in an innovative low magnetic field. <i>Advanced Powder Technology</i> , 2016 , 27, 2005-2011	4.6	7
31	Fabrication of composite particles by attaching surface-modified nanoparticles to core particles by wet processing in organic solvents. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 452, 51-58	5.1	6
30	Redispersion Property of TiO ₂ Nanoparticles Modified with Oleyl-group. <i>Journal of the Society of Powder Technology, Japan</i> , 2012 , 49, 108-115	0.3	6
29	Effect of polyethyleneimine-fatty acid complex type dispersant structure on the overall processing chain of Si ₃ N ₄ ceramics using multicomponent non-aqueous slurries. <i>Advanced Powder Technology</i> , 2018 , 29, 3440-3447	4.6	6
28	Simultaneous epoxy grafting on SiO ₂ nanoparticles during bead milling and their effects on the mechanical properties of epoxy-based composites. <i>Advanced Powder Technology</i> , 2019 , 30, 1782-1788	4.6	5
27	Surface Modification and Dispersion of Gas Phase Synthesized Oxide Composite Nanoparticles in Organic Solvent by Agitation Milling Process with Small Beads. <i>Journal of the Society of Powder Technology, Japan</i> , 2010 , 47, 310-316	0.3	5
26	Polymer Ligand Design and Surface Modification of Ag Nanowires toward Color-Tone-Tunable Transparent Conductive Films. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 13705-13713	9.5	5
25	Microstructural control of green bodies prepared from Si-based multi-component non-aqueous slurries and their effects on fabrication of Si ₃ N ₄ ceramics through post-reaction sintering. <i>Advanced Powder Technology</i> , 2018 , 29, 3199-3209	4.6	5
24	Complex of polyethyleneimine and anionic surfactant with functional chain: a versatile surface modifier applicable to various particles, solvents, and surface modification processes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 545, 110-116	5.1	4
23	Carbon Nanotube/Nanofibers and Graphite Hybrids for Li-Ion Battery Application. <i>Journal of Nanomaterials</i> , 2014 , 2014, 1-7	3.2	4
22	Liquid penetration as a simple detection method for structural differences in particulate films prepared from slurries. <i>Powder Technology</i> , 2016 , 303, 59-67	5.2	4
21	Degradation evaluation of Si ₃ N ₄ ceramic surface layer in contact with molten Al using microcantilever beam specimens. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 4351-4356	6	3
20	Nonaqueous gel casting using multicomponent concentrated slurries through Michael additive reaction for fabricating silicon nitride dense ceramics. <i>Advanced Powder Technology</i> , 2021 , 32, 472-479	4.6	3
19	Observation of Internal Structure of Ceramics and Slurry by Optical Coherence Tomography. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2018 , 65, 659-663	0.2	3
18	Design of nanoscale structured composite particles through mechanical process for fabricating a powder layer with rapid drying properties. <i>Chemical Engineering Science</i> , 2019 , 203, 113-121	4.4	2
17	Dispersion of inorganic electrolytes in low-polarity solvents assisted by surface modified magnetic nanoparticles and their base catalytic properties. <i>Chemical Engineering Science</i> , 2013 , 91, 65-69	4.4	2

16	Surface modification techniques toward controlling the dispersion stability and particle-assembled structures of slurries. <i>Journal of the Ceramic Society of Japan</i> , 2017 , 125, 603-607	1	2
15	Effect of Nanoparticle Concentration on the Property of Silicone Polymer Sheet Cross-linked by Nanoparticles. <i>Journal of the Society of Powder Technology, Japan</i> , 2012 , 49, 876-882	0.3	2
14	Hetero-assembly of colloidal particles in concentrated non-aqueous suspensions by polymer dispersant design. <i>Advanced Powder Technology</i> , 2020 , 31, 746-754	4.6	2
13	In situ observation of evolution of internal structure of alumina during sintering by swept-source OCT. <i>International Journal of Applied Ceramic Technology</i> ,	2	2
12	Composites of SnO ₂ /layered SnO _x compounds and their electrical properties. <i>RSC Advances</i> , 2013 , 3, 22931	3.7	1
11	Functionalization of Ag nanoparticles using local hydrophilic pool segment designed on their particle surface 2014 ,		1
10	Toward continuous LC-MS analysis: surface modification of magnetic microparticles with TiO ₂ for phosphate adsorption. <i>Bioscience, Biotechnology and Biochemistry</i> , 2014 , 78, 748-54	2.1	1
9	TiO ₂ Supported on Porous Aluminosilicate Prepared in Cationic Surfactant Solution for Acetaldehyde Decomposition with a Protection of Organic Base Materials. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 2048	3.8	1
8	Control of Dispersion and Particle Assembling Structures in Non-aqueous, Dense, and Multicomponent Slurries. <i>Journal of the Society of Powder Technology, Japan</i> , 2020 , 57, 19-24	0.3	1
7	Characterization of Cross-linking Vehicle Effect on Surface Interactions between pH-sensitive Drug Delivery Vehicle and Mucin Layers by Colloid Probe Atomic Force Microscopy. <i>Journal of the Society of Powder Technology, Japan</i> , 2017 , 54, 305-310	0.3	0
6	Relationship between bending strength of bulk porous silicon carbide ceramics and grain boundary strength measured using microcantilever beam specimens. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 2634-2641	6	0
5	Transparent Y-BiAlON:Ce ³⁺ Ceramics Fabricated by Low-Temperature Liquid Phase Sintering Technique. <i>ECS Journal of Solid State Science and Technology</i> , 2021 , 10, 086008	2	0
4	Operando observation of concentrated SiO suspensions by optical coherent tomography during flow curve measurements: The relationship between polymer dispersant structures and surface interactions. <i>Journal of Colloid and Interface Science</i> , 2022 , 607, 290-297	9.3	0
3	Oxidation-resistant Silica-coating on Highly Dispersed Spindle-type Fe-Co Nanoparticles. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2009 , 56, 232-235 ^{0.2}		
2	Preparation of Nitride Phosphor Particle Dispersed h-BN/Glass Composites. <i>Journal of the Society of Powder Technology, Japan</i> , 2020 , 57, 137-143	0.3	
1	Pulverization of Y ₂ O ₃ nanoparticles by using nanocomposite particles prepared by mechanical treatmentPeer review under responsibility of The Ceramic Society of Japan and the Korean Ceramic Society.View all notes. <i>Journal of Asian Ceramic Societies</i> , 2016 , 4, 351-356	2.4	