

Kimiyasu Sato

List of Publications by Year in descending order

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97
times ranked

2266
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational prediction of microstructures in $\text{Al}_2\text{O}_3/\text{PMMA}$ composites and its experimental verification. <i>Polymer Composites</i> , 2022, 43, 339-346.	2.3	4
2	A facile method to prepare layered solid fillers-based polymer composites with isotropic thermal conductivity. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 154, 106776.	3.8	11
3	Deformation capability of poly(tetrafluoroethylene) materials: Estimation with X-ray diffraction measurements. <i>Polymer Testing</i> , 2022, 113, 107690.	2.3	6
4	Simultaneous attainment of particle dispersion and surface modification of Al_2O_3 nanoparticles via wet-jet milling. <i>Journal of Composite Materials</i> , 2021, 55, 521-530.	1.2	3
5	A feasibility study on direct measurements of interaction forces between carbon fiber surfaces and other substances. <i>Polymer Composites</i> , 2020, 41, 5209-5215.	2.3	2
6	Nanocelluloses and Related Materials Applicable in Thermal Management of Electronic Devices: A Review. <i>Nanomaterials</i> , 2020, 10, 448.	1.9	27
7	Protection of carbon fiber surfaces with silicon-based ceramic coating. <i>Journal of the Ceramic Society of Japan</i> , 2019, 127, 331-334.	0.5	2
8	High-Throughput Dimensional Evaluation of Hexagonal Boron Nitride 2D Nanomaterials. <i>Crystal Research and Technology</i> , 2019, 54, 1800249.	0.6	6
9	Effect of the addition of Al_2O_3 and h-BN fillers on the thermal conductivity of a cellulose nanofiber/nanodiamond composite film. <i>Cellulose</i> , 2019, 26, 5281-5289.	2.4	23
10	Ceramic molds suitable for rapid forming of CFRP composites via microwave irradiation. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 2380-2384.	1.1	1
11	Cellulose nanofiber/nanodiamond composite films: Thermal conductivity enhancement achieved by a tuned nanostructure. <i>Advanced Powder Technology</i> , 2018, 29, 972-976.	2.0	24
12	Improvement of thermal conductivity of composite film composed of cellulose nanofiber and nanodiamond by optimizing process parameters. <i>Cellulose</i> , 2018, 25, 3973-3983.	2.4	16
13	Exfoliation of hexagonal boron nitride using wet-rotating disc milling. <i>Journal of the Ceramic Society of Japan</i> , 2015, 123, 512-515.	0.5	8
14	Wet-jet milling-assisted exfoliation of h-BN particles with lamination structure. <i>Ceramics International</i> , 2015, 41, 10512-10519.	2.3	20
15	Thermal conductivity enhancement of alumina/polyamide composites via interfacial modification. <i>Ceramics International</i> , 2015, 41, 10314-10318.	2.3	53
16	Ball milling assisted hydrothermal synthesis of ZrO_2 nanopowders. <i>Ceramics International</i> , 2015, 41, 5588-5593.	2.3	12
17	Carbon fiber/epoxy composite materials cured thermally and with microwave irradiation. <i>Composite Interfaces</i> , 2015, 22, 67-74.	1.3	19
18	TiO_2 Synthesis Inspired by Biomineralization: Control of Morphology, Crystal Phase, and Light-Use Efficiency in a Single Process. <i>Journal of the American Chemical Society</i> , 2012, 134, 8841-8847.	6.6	106

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19	Acetic acid mediated interactions between alumina surfaces. <i>Applied Surface Science</i> , 2012, 258, 4011-4015.	3.1	10
20	Localized thermal analysis of carbon fiber reinforced polypropylene composites. <i>Polymer Composites</i> , 2012, 33, 1764-1769.	2.3	5
21	Arrangement techniques of proteins and cells using amorphous calcium phosphate nanofiber scaffolds. <i>Applied Surface Science</i> , 2012, 262, 8-12.	3.1	11
22	Multistep Growth Mechanism of Calcium Phosphate in the Earliest Stage of Morphology-Controlled Biomineralization. <i>Langmuir</i> , 2011, 27, 7077-7083.	1.6	27
23	Rheological behaviors of ball-milled and wet-jet milled ZnO slurries with polyvinyl alcohol as an organic binder. <i>Journal of the Ceramic Society of Japan</i> , 2011, 119, 203-207.	0.5	3
24	Lateral and Normal Forces in Polymer Mediated Interaction of Alumina Surfaces. <i>Journal of the American Ceramic Society</i> , 2011, 94, 3761-3767.	1.9	5
25	Methyl cellulose bridging between alumina surfaces. <i>Journal of the Ceramic Society of Japan</i> , 2010, 118, 314-317.	0.5	2
26	Thermally conductive composite films of hexagonal boron nitride and polyimide with affinity-enhanced interfaces. <i>Journal of Materials Chemistry</i> , 2010, 20, 2749.	6.7	345
27	Morphology control of calcium phosphate by mineralization on the β -sheet peptide template. <i>Chemical Communications</i> , 2010, 46, 6983.	2.2	21
28	Dispersion of Ceramic Particles in Aqueous Media with Surface Grafted Dispersant. <i>Journal of the American Ceramic Society</i> , 2009, 92, 256-259.	1.9	11
29	Ion Specific Interaction of Alumina Surfaces. <i>Journal of the American Ceramic Society</i> , 2009, 92, 318-322.	1.9	5
30	Fabrication of stable Al ₂ O ₃ slurries and dense green bodies using soft-energy milling process. <i>Journal of the European Ceramic Society</i> , 2009, 29, 869-874.	2.8	4
31	Fluidity of methyl cellulose-contained suspensions and pastes prepared from differently milled Al ₂ O ₃ powder. <i>Journal of Colloid and Interface Science</i> , 2009, 331, 221-226.	5.0	7
32	A strategy to reduce energy usage in ceramic fabrication. <i>Synthesiology</i> , 2009, 2, 132-141.	0.2	4
33	Synthesis of BaTiO ₃ powders by a ball milling-assisted hydrothermal reaction. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 475, 12-16.	2.6	14
34	Densification and grain growth in BaTiO ₃ ceramics fabricated from nanopowders synthesized by ball-milling assisted hydrothermal reaction. <i>Journal of the European Ceramic Society</i> , 2008, 28, 599-604.	2.8	21
35	Normal and lateral interaction of γ -alumina in different electrolyte solutions. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008, 148, 215-220.	1.7	3
36	Low-temperature sintering of BaTiO ₃ powders prepared by a hydrothermal process with ball milling system. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 475, 57-61.	2.6	13

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37	State of the Dispersant and Particle Surface During Wet-Jet Milling for Preparation of a Stable Slurry. Journal of the American Ceramic Society, 2008, 91, 1095-1101.	1.9	30
38	Environmentally benign processing of ceramics by extrusion with various clay minerals as inorganic binders. Journal of the Ceramic Society of Japan, 2008, 116, 224-229.	0.5	0
39	Extrusion behavior of mono-calcium aluminate (CaAl ₂ O ₄) paste. Journal of the Ceramic Society of Japan, 2008, 116, 239-241.	0.5	2
40	Eco-friendly processing and methods for ceramic materials - A review. Journal of the Ceramic Society of Japan, 2008, 116, 1175-1181.	0.5	8
41	Property Modification of Ball-milled Slurries using Wet-jet Milling. Funtai Oyobi Fummatsumu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2008, 55, 21-25.	0.1	0
42	Mechanism of Hydroxyapatite Mineralization in Biological Systems(Review). Journal of the Ceramic Society of Japan, 2007, 115, 124-130.	1.3	39
43	Extrusion of Alumina Ceramics with Hydraulic Alumina without Organic Additives. Journal of the Ceramic Society of Japan, 2007, 115, 191-194.	1.3	15
44	Synthesis, crystal structure and thermoelectric properties of a new carbide Zr ₂ [Al _{3.56} Si _{0.44}]C ₅ . Journal of Solid State Chemistry, 2007, 180, 1809-1815.	1.4	43
45	Wet jet milling of Al ₂ O ₃ slurries. Journal of the European Ceramic Society, 2007, 27, 733-737.	2.8	11
46	AFM interaction study of α -alumina particle and c-sapphire surfaces at high-ionic-strength electrolyte solutions. Journal of Colloid and Interface Science, 2007, 307, 116-123.	5.0	26
47	Covalently Connected Particles in Green Bodies Fabricated by Tape Casting. Journal of the American Ceramic Society, 2007, 90, 279-282.	1.9	11
48	Production of Ceramic Green Bodies Using a Microwave-Reactive Organic Binder. Journal of the American Ceramic Society, 2007, 90, 1319-1322.	1.9	10
49	Slip casting using wet-jet milled slurry. Journal of the European Ceramic Society, 2007, 27, 753-757.	2.8	12
50	Polyelectrolyte Mediated Interaction of Alumina in Wet Jet Milled Slurry/Ball Milled Slurry Supernatants. Journal of the Ceramic Society of Japan, 2006, 114, 1100-1102.	1.3	3
51	Polymorph and Orientation Controls of Calcium Carbonate Crystals Achieved by Organic Matrices. Journal of the Ceramic Society of Japan, 2006, 114, 754-759.	1.3	8
52	Hydrothermal Synthesis of BaTiO ₃ Assisted with Ball Milling. Journal of the Ceramic Society of Japan, 2006, 114, 651-653.	1.3	6
53	Inorganic-Organic Interfacial Interactions in Hydroxyapatite Mineralization Processes. Topics in Current Chemistry, 2006, , 127-153.	4.0	15
54	Homogeneous ZrO ₂ -Al ₂ O ₃ Composite Prepared by Nano-ZrO ₂ Particle Multilayer-Coated Al ₂ O ₃ Particles. Journal of the American Ceramic Society, 2006, 89, 1103-1106.	1.9	17

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55	Fabrication of Stable Al ₂ O ₃ Slurries and Dense Green Bodies Using Wet Jet Milling. Journal of the American Ceramic Society, 2006, 89, 060623005134012-???.	1.9	17
56	Effect of pH and hydration on the normal and lateral interaction forces between alumina surfaces. Journal of Colloid and Interface Science, 2006, 304, 378-387.	5.0	26
57	Agglomeration control of hydroxyapatite nano-crystals grown in phase-separated microenvironments. Journal of Materials Science, 2006, 41, 5424-5428.	1.7	29
58	Synthesis of multilayer Nano-ZrO ₂ coated polystyrene spheres on fabrication of three-dimensional ordered macroporous structures. Journal of Materials Science, 2006, 41, 2779-2786.	1.7	10
59	Fabrication of Al ₂ O ₃ Ceramics by Environmentally Friendly Process. Key Engineering Materials, 2006, 317-318, 751-754.	0.4	0
60	Hydrothermal Synthesis of Nano ZrO ₂ Powders. Key Engineering Materials, 2006, 317-318, 195-198.	0.4	9
61	In-Situ IR Spectral Measurement in Organic Matrix-Mediated Hydroxyapatite Formation. Journal of the Ceramic Society of Japan, 2005, 113, 112-115.	1.3	6
62	Kinetic Study on Nano-ZrO ₂ from ZrOCl ₂ Solution Modified with Diglycol. Journal of the Ceramic Society of Japan, 2005, 113, 380-382.	1.3	3
63	Characterization of Al ₂ O ₃ Slurries Prepared by Wet Jet Milling. Journal of the Ceramic Society of Japan, 2005, 113, 491-494.	1.3	13
64	Mutual Linkage of Particles in a Ceramic Green Body through Photoreactive Organic Binders. Journal of the Ceramic Society of Japan, 2005, 113, 687-691.	1.3	17
65	Planetary Homogenizing of Al ₂ O ₃ Slurries. Journal of the Ceramic Society of Japan, 2005, 113, 753-757.	1.3	5
66	Fabrication of Porous Alumina Ceramics by New Eco-Friendly Process. Journal of the Ceramic Society of Japan, 2005, 113, 87-91.	1.3	18
67	Slip Casting of Al ₂ O ₃ Slurries Prepared by Wet Jet Milling. Journal of the Ceramic Society of Japan, 2005, 113, 495-497.	1.3	22
68	Macroporous ZrO ₂ ceramics prepared from colloidally stable nanoparticles building blocks and organic templates. Journal of Colloid and Interface Science, 2005, 291, 292-295.	5.0	24
69	Fabrication of Fine AlN Particles by Pulverizing with Very Small ZrO ₂ Beads. Journal of the American Ceramic Society, 2005, 88, 1676-1679.	1.9	12
70	Preparation of plated β -tricalcium phosphate containing hydroxyapatite for use in bonded inorganic-organic composites. Journal of Materials Science, 2005, 40, 2595-2597.	1.7	6
71	The effect of polyelectrolyte on fabrication of macroporous ZrO ₂ ceramics. Journal of Materials Science, 2005, 40, 2903-2909.	1.7	7
72	Colloidal processing, surface characterization, and sintering of nano ZrO ₂ powders. Journal of Materials Research, 2005, 20, 1348-1355.	1.2	20

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73	Gelcasting of Mechanochemically Synthesized Hydroxyapatite. Key Engineering Materials, 2005, 280-283, 1555-1558.	0.4	0
74	Multilayer ZrO ₂ Precursor Coated Polystyrene Particles. Key Engineering Materials, 2005, 280-283, 529-532.	0.4	0
75	Centrifugal Sintering of Copper. Key Engineering Materials, 2004, 264-268, 757-760.	0.4	0
76	Hierarchical Texture of Calcium Carbonate Crystals Grown on a Polymerized Langmuir-Blodgett Film. Langmuir, 2004, 20, 2979-2981.	1.6	26
77	Particle Size Distribution of SnO ₂ Nano-Particles Synthesized by Pulsed Wire Discharge. Journal of the Ceramic Society of Japan, 2004, 112, 355-362.	1.3	17
78	Regulation mechanism of the crystal orientation in calcium carbonate as biominerals. Nihon Kessho Gakkaishi, 2004, 46, 13-13.	0.0	0
79	Effect of Grain Boundaries on Thermal Conductivity of Silicon Carbide Ceramic at 5 to 1300 K. Journal of the American Ceramic Society, 2003, 86, 1812-1814.	1.9	62
80	Diffusion Bonding Assisted by Centrifugal Force. Journal of the Ceramic Society of Japan, 2003, 111, 733-737.	1.3	2
81	Influence of emulsion on crystal growth of hydroxyapatite. Solid State Ionics, 2002, 151, 321-327.	1.3	75
82	Atomic Scale {101 $\bar{0}$ } Interfacial Structure in Hydroxyapatite Determined by High-Resolution Transmission Electron Microscopy. Journal of the American Ceramic Society, 2002, 85, 3054-3058.	1.9	48
83	Crystal Orientation of Hydroxyapatite Induced by Ordered Carboxyl Groups. Journal of Colloid and Interface Science, 2001, 240, 133-138.	5.0	96
84	Apatite-Silica Gel Composite Materials Prepared by a New Alternate Soaking Process. Journal of Sol-Gel Science and Technology, 2001, 21, 55-63.	1.1	16
85	Title is missing!. Journal of Materials Science Letters, 2001, 20, 111-114.	0.5	49
86	In Vitro Calcification Model (2): Apatite Formation on Segmented Polyurethane Thin Films by Using an Alternate Soaking Process: The Effect of Adsorbed Serum Proteins on Calcification. Journal of Bioactive and Compatible Polymers, 2000, 15, 230-244.	0.8	1
87	Apatite formation on organic monolayers in simulated body environment. , 2000, 50, 16-20.		115
88	The Surface Structure of Hydroxyapatite Single Crystal and the Accumulation of Arachidic Acid. Journal of Colloid and Interface Science, 2000, 224, 23-27.	5.0	17
89	Atomic Scale Interfacial Structure of Hydroxyapatite Observed with High-Resolution Transmission Electron Microscopy. Key Engineering Materials, 2000, 192-195, 283-286.	0.4	1
90	Absorption bands near three micrometers in diffuse reflectance spectra of carbonaceous chondrites: Comparison with asteroids. Meteoritics and Planetary Science, 1997, 32, 503-507.	0.7	44

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91	Preparation of Stable Nano-sized Al ₂ O ₃ Slurries Using Wet-Jet Milling. , 0, , 11-18.		1
92	Mutual Linkage of Particles in Ceramic Green Bodies through Reactive Organic Binders. , 0, , 35-46.		0
93	Nano-Sized Hydroxyapatite Crystals Grown in Phase Separated Microenvironments. Ceramic Transactions, 0, , 461-465.	0.1	0