

Ken-ichi Mimura

List of Publications by Year in descending order

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all docs

55
docs citations

55
times ranked

700
citing authors

#	ARTICLE	IF	CITATIONS
1	In situ growth BaTiO ₃ nanocubes and their superlattice from an aqueous process. <i>Nanoscale</i> , 2012, 4, 1344.	5.6	105
2	Growth of monodispersed SrTiO ₃ nanocubes by thermohydrolysis method. <i>CrystEngComm</i> , 2011, 13, 3878.	2.6	78
3	Piezoresponse properties of orderly assemblies of BaTiO ₃ and SrTiO ₃ nanocube single crystals. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	68
4	Enhanced dielectric properties of BaTiO ₃ nanocube assembled film in metal-insulator-metal capacitor structure. <i>Applied Physics Express</i> , 2014, 7, 061501.	2.4	41
5	Nano-sized cube-shaped single crystalline oxides and their potentials; composition, assembly and functions. <i>Advanced Powder Technology</i> , 2014, 25, 1401-1414.	4.1	39
6	Characteristics of Barium Titanate Nanocube Ordered Assembly Thin Films Fabricated by Dip-Coating Method. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 09KC06.	1.5	37
7	Synthesis and dielectric properties of (Ba,Ca)(Zr,Ti)O ₃ thin films using metal-organic precursor solutions. <i>Thin Solid Films</i> , 2008, 516, 8408-8413.	1.8	31
8	BaTiO ₃ nanocube and assembly to ferroelectric supracrystals. <i>Journal of Materials Research</i> , 2013, 28, 2932-2945.	2.6	31
9	Fabrication and piezoresponse properties of {100} BaTiO ₃ films containing highly ordered nanocube assemblies on various substrates. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	25
10	Diversity in size of barium titanate nanocubes synthesized by a hydrothermal method using an aqueous Ti compound. <i>CrystEngComm</i> , 2014, 16, 8398.	2.6	24
11	Tuning shape of barium titanate nanocubes by combination of oleic acid/tert-butylamine through hydrothermal process. <i>Journal of Alloys and Compounds</i> , 2016, 655, 71-78.	5.5	24
12	Dielectric properties of barium titanate nanocube ordered assembly sintered at various temperatures. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 09PA03.	1.5	22
13	Fabrication of Dielectric Nanocubes in Ordered Structure by Capillary Force Assisted Self-Assembly Method and Their Piezoresponse Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 3853-3861.	0.9	21
14	Synthesis of Transparent and Field-Responsive BaTiO ₃ Particle/Organosiloxane Hybrid Fluid. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4902-4906.	13.8	20
15	Synthesis of BaTiO ₃ nanoparticle/poly(2-hydroxyethyl methacrylate) hybrid nanofibers via electrospinning. <i>Composites Science and Technology</i> , 2010, 70, 492-497.	7.8	19
16	Characterization of Dielectric Nanocubes Ordered Structures Fabricated by Solution Self-Assembly Process. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 09NC09.	1.5	19
17	Thermoelectric Properties of Rare Earth-Doped SrTiO ₃ Nanocubes. <i>Journal of Electronic Materials</i> , 2014, 43, 2011-2016.	2.2	15
18	Optical properties of transparent barium titanate nanoparticle/polymer hybrid synthesized from metal alkoxides. <i>Journal of Nanoparticle Research</i> , 2010, 12, 1933-1943.	1.9	14

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19	Dielectric properties of micropatterns consisting of barium titanate single-crystalline nanocubes. Japanese Journal of Applied Physics, 2015, 54, 10NA11.	1.5	14
20	Extra Surfactant-Assisted Self-Assembly of Highly Ordered Monolayers of BaTiO ₃ Nanocubes at the Air/Water Interface. Nanomaterials, 2018, 8, 739.	4.1	14
21	Chemical solution processing and characterization of Ba(Zr,Ti)O ₃ /LaNiO ₃ layered thin films. Journal of Sol-Gel Science and Technology, 2007, 42, 213-220.	2.4	12
22	Fabrication and Characterization of Dielectric Nanocube Self-Assembled Structures. Japanese Journal of Applied Physics, 2012, 51, 09LC03.	1.5	12
23	Characterization of Dielectric Nanocubes Ordered Structures Fabricated by Solution Self-Assembly Process. Japanese Journal of Applied Physics, 2011, 50, 09NC09.	1.5	11
24	Processing of dielectric nanocube 3D-assemblies and their high electrical properties for next-generation devices. Journal of the Ceramic Society of Japan, 2016, 124, 848-854.	1.1	11
25	Fabrication and characterization of barium titanate nanocube ordered assemblies on micro-patterned substrates. Journal of the Ceramic Society of Japan, 2015, 123, 579-582.	1.1	10
26	Ferroelectric properties of alkoxy-derived transparent BaTiO ₃ nanoparticle/polymer hybrid. Materials Letters, 2012, 89, 40-42.	2.6	9
27	High dielectric constant associated with the strain-induced phase transition of an ordered assembly of BaTiO ₃ nanocubes under three-dimensional clamping. Japanese Journal of Applied Physics, 2017, 56, 021501.	1.5	9
28	Numerical calculations of temperature dependence of dielectric constant for an ordered assembly of BaTiO ₃ nanocubes with small tilt angles. Japanese Journal of Applied Physics, 2018, 57, 031501.	1.5	9
29	Characterization of BaTiO ₃ nanocubes assembled into highly ordered monolayers using micro- and nano-Raman spectroscopy. Applied Physics Letters, 2018, 112, .	3.3	9
30	Fabrication and piezoelectric properties of Pb(Zr,Ti)O ₃ cubes synthesized by hydrothermal method. Journal of the Ceramic Society of Japan, 2018, 126, 326-330.	1.1	9
31	Dynamic dielectric-response model of flexoelectric polarization from kHz to MHz range in an ordered assembly of BaTiO ₃ nanocubes. Journal of Physics Condensed Matter, 2020, 32, 495301.	1.8	9
32	Fabrication and Characterization of Dielectric Nanocube Self-Assembled Structures. Japanese Journal of Applied Physics, 2012, 51, 09LC03.	1.5	8
33	High refractive index and dielectric properties of BaTiO ₃ nanocube/polymer composite films. Journal of Nanoparticle Research, 2020, 22, 1.	1.9	8
34	Enhanced Thermopower in Nano-SrTiO ₃ Via Rare Earth Doping. Journal of Electronic Materials, 2015, 44, 1773-1776.	2.2	7
35	Densification of Garnet-type Electrolyte Thin Sheets by Cold Sintering. Chemistry Letters, 2021, 50, 1784-1786.	1.3	7
36	Fabrication and electrical properties of barium titanate based solid solution nanocube assembly films. Japanese Journal of Applied Physics, 2016, 55, 10TA05.	1.5	6

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37	One-step synthesis of BaTiO ₃ /CaTiO ₃ core-shell nanocubes by hydrothermal reaction. Journal of Asian Ceramic Societies, 2021, 9, 359-365.	2.3	5
38	Size and morphology controlling of barium titanate nanocubes by using hydrothermal method. Journal of the Korean Physical Society, 2015, 66, 1364-1366.	0.7	4
39	Synthesis and characterization of barium titanate-based solid solution nanocubes. Journal of the Ceramic Society of Japan, 2016, 124, 639-643.	1.1	4
40	Fabrication of preferentially (001)-oriented Pb(Zr,Ti)O ₃ films consisting of anisotropic single crystal nanoparticles. Japanese Journal of Applied Physics, 2019, 58, SLLB08.	1.5	4
41	Effect of heat treatment on internal stress in barium titanate nanocube assemblies and their dielectric property. AIP Advances, 2021, 11, .	1.3	4
42	Coexistence of Flexo- and Ferro-Electric Effects in an Ordered Assembly of BaTiO ₃ Nanocubes. Nanomaterials, 2022, 12, 188.	4.1	4
43	Field-responsive BaTiO ₃ nanoparticle/organic hybrid synthesized from metal alkoxide. Journal of the Ceramic Society of Japan, 2011, 119, 776-782.	1.1	3
44	Dielectric properties of barium zirconate titanate nanocube 3D-ordered assemblies. Journal of the Ceramic Society of Japan, 2018, 126, 321-325.	1.1	3
45	Hydrothermal synthesis of A-site substituted BaTiO ₃ nanocubes. Journal of the Ceramic Society of Japan, 2020, 128, 475-480.	1.1	3
46	Synthesis of field-responsive PbTiO ₃ particle/polymer hybrids from metal-organics. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 408, 57-63.	4.7	2
47	Properties of flexible, transparent barium titanate nanoparticle/poly(2-hydroxyethyl methacrylate) hybrid. Journal of Materials Science, 2013, 48, 282-287.	3.7	2
48	Electrospray Deposition of {200} Oriented Regular-Assembly BaTiO ₃ Nanocrystal Films under an Electric Field. Langmuir, 2019, 35, 5496-5500.	3.5	2
49	Ultrafast Ion Transport via Dielectric Nanocube Interface. Advanced Materials Interfaces, 2022, 9, .	3.7	2
50	Fabrication and Characterization of Perovskite Nanocube Ordering Structures via Capillary-Force-Assisted Self-Assembly Process. Key Engineering Materials, 2013, 566, 285-288.	0.4	1
51	Structure and Properties of Thin Films Consisting of Single Crystalline BaTiO ₃ Nanocubes. Key Engineering Materials, 2013, 582, 149-152.	0.4	1
52	Effect of oleic acid on the formation of lead zirconate titanate nanoplates. Journal of Crystal Growth, 2020, 548, 125811.	1.5	1
53	Hydrothermal synthesis of perovskite-type solid electrolyte nanoplate. Journal of Sol-Gel Science and Technology, 2022, 104, 599-605.	2.4	1
54	Development of New Fabrication Technology Using Self-Assembly Behaviors of Single-Crystalline Dielectric Nanocubes. Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2018, 65, 629-633.	0.2	0