

Takayuki Watanabe

List of Publications by Year in descending order

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262
papers

4,815
citations

126907

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57
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266
docs citations

266
times ranked

2736
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Methane Injection Methods on the Preparation of Silicon Nanoparticles with Carbon Coating in Induction Thermal Plasma. <i>Journal of Chemical Engineering of Japan</i> , 2022, 55, 22-28.	0.6	2
2	Treatment of pyridine in industrial liquid waste by atmospheric DC water plasma. <i>Journal of Hazardous Materials</i> , 2022, 430, 128381.	12.4	12
3	Decomposition of N, N-diethyl-m-toluamide by water plasma with mist generation. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107817.	6.7	2
4	As(ⁱⁱⁱ) removal through catalytic oxidation and Fe(ⁱⁱⁱ) precipitation. <i>RSC Advances</i> , 2022, 12, 16843-16846.	3.6	2
5	Formation Mechanism of Amorphous Silicon Nanoparticles Synthesized by Induction Thermal Plasma. <i>MATEC Web of Conferences</i> , 2021, 333, 03007.	0.2	1
6	Investigation of Temperature Fluctuation of Diode-Rectified Multiphase AC Arc by High-Speed Visualization. <i>MATEC Web of Conferences</i> , 2021, 333, 03005.	0.2	0
7	Effect of External Magnetic Field on Long DC Arc Characteristics with Ring-shaped Anode. <i>MATEC Web of Conferences</i> , 2021, 333, 03004.	0.2	0
8	Formation mechanism of amorphous silicon nanoparticles with additional counter-flow quenching gas by induction thermal plasma. <i>Chemical Engineering Science</i> , 2021, 230, 116217.	3.8	16
9	Condensation of Glass with Multimetal Nanoparticles: Implications for the Formation Process of GEMS Grains. <i>Astrophysical Journal</i> , 2021, 911, 47.	4.5	7
10	Arc Behavior and Temperature Distribution in Water Thermal Plasma with Mist Generation. <i>Journal of Chemical Engineering of Japan</i> , 2021, 54, 277-282.	0.6	3
11	Preparation of Carbon-Coated Silicon Nanoparticles with Different Hydrocarbon Gases in Induction Thermal Plasma. <i>Journal of Physical Chemistry C</i> , 2021, 125, 15551-15559.	3.1	11
12	A controllable and byproduct-free synthesis method of carbon-coated silicon nanoparticles by induction thermal plasma for lithium ion battery. <i>Advanced Powder Technology</i> , 2021, 32, 2828-2838.	4.1	7
13	&N-Dimethylformamide Decomposition by DC Water Plasma at Atmospheric Pressure. <i>Journal of Chemical Engineering of Japan</i> , 2021, 54, 486-492.	0.6	1
14	Controlled regulation of the transformation of carbon nanomaterials under H ₂ mixture atmosphere by arc plasma. <i>Chemical Engineering Science</i> , 2021, 241, 116695.	3.8	6
15	Decomposition Mechanism of SF ₆ by Long DC Arc Plasma. <i>Kagaku Kogaku Ronbunshu</i> , 2021, 47, 211-216.	0.3	0
16	Synthesis of carbon-coated silicon nanoparticles by induction thermal plasma for lithium ion battery. <i>Powder Technology</i> , 2020, 371, 26-36.	4.2	27
17	High-speed visualization of metal oxide precursor in multiphase AC arc during nanoparticle formation. <i>Japanese Journal of Applied Physics</i> , 2020, 59, SHHC08.	1.5	1
18	Ni-Oxide Nanoparticle Synthesis by Induction Thermal Plasmas. <i>Journal of Chemical Engineering of Japan</i> , 2020, 53, 78-83.	0.6	2

#	ARTICLE	IF	CITATIONS
19	Structural investigation of ferroelectric BiFeO ₃ -BaTiO ₃ solid solutions near the rhombohedral-pseudocubic phase boundary. Applied Physics Letters, 2020, 116, .	3.3	5
20	Thermal plasma synthesis and electrochemical properties of high-voltage LiNi _{0.5} Mn _{1.5} O ₄ nanoparticles. Materials Research Express, 2020, 7, 015015.	1.6	1
21	Li-Ni-Mn-oxide nanoparticle synthesis by induction thermal plasmas for lithium ion battery electrode. Journal of the Ceramic Society of Japan, 2020, 128, 635-640.	1.1	5
22	Investigation of electrode erosion mechanism in Ar-N ₂ DC arc based on visualization of electrode phenomena. Japanese Journal of Applied Physics, 2020, 59, 116001.	1.5	3
23	Innovative Thermal Plasma Processing for Functional Material Fabrication and Waste Treatment. Journal of the Institute of Electrical Engineers of Japan, 2020, 140, 358-361.	0.0	0
24	Investigation of Arc Behavior and Temperature Distribution Corresponding to Electrode and Phase Configurations in a Multiphase AC Arc. Journal of Chemical Engineering of Japan, 2020, 53, 509-515.	0.6	0
25	Fluctuation Phenomena in Multiphase AC Arc Under Nitrogen Atmosphere. , 2020, , .		0
26	Effects of the Driving Frequency on Temperature in a Multiphase AC Arc. IEEE Transactions on Plasma Science, 2019, 47, 32-38.	1.3	13
27	Formation of Transition Alumina Dust around Asymptotic Giant Branch Stars: Condensation Experiments using Induction Thermal Plasma Systems. Astrophysical Journal Letters, 2019, 878, L7.	8.3	11
28	Investigation of erosion mechanism of tungsten-based cathode in Ar-N ₂ DC arc. Journal Physics D: Applied Physics, 2019, 52, 404002.	2.8	14
29	High-speed visualization of metal oxide precursor in thermal plasma flow during nanoparticle formation. Journal of Fluid Science and Technology, 2019, 14, JFST0024-JFST0024.	0.6	2
30	Controllable synthesis of carbon nanomaterials by direct current arc discharge from the inner wall of the chamber. Carbon, 2019, 142, 278-284.	10.3	95
31	Achievement of Mass Production System of Attractive Nanoparticles by Thermal Plasmas. Journal of the Society of Powder Technology, Japan, 2019, 56, 459-467.	0.1	1
32	ç†±ãf-ãf©ã,ãfžæµã®ã²è -ãCE-ã«ã,ã,ç%©ç†ãf»ãCE-ã-ã-ãçš,,ã%ãã«ç¼è±ã®èš£æ~ž. Journal of Smart Processing, 2019, 8, 38-45.		
33	Plasma jet characteristics in long DC arc with ring-shaped anode. Journal of Fluid Science and Technology, 2018, 13, JFST0027-JFST0027.	0.6	5
34	Effects of working pressure on temperature characteristics in multiphase AC arc. Journal of Fluid Science and Technology, 2018, 13, JFST0024-JFST0024.	0.6	7
35	Preparation of Nickel Nanoparticles by Direct Current Arc Discharge Method and Their Catalytic Application in Hybrid Na-Air Battery. Nanomaterials, 2018, 8, 684.	4.1	16
36	Formation of different arc-anode attachment modes and their effect on temperature fluctuation for carbon nanomaterial production in DC arc discharge. Carbon, 2017, 117, 100-111.	10.3	26

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37	Enhancement of tetragonal anisotropy and stabilisation of the tetragonal phase by Bi/Mn-double-doping in BaTiO ₃ ferroelectric ceramics. Scientific Reports, 2017, 7, 45842.	3.3	21
38	Effect of arc current on droplet ejection from tungsten-based electrode in multiphase AC arc. Japanese Journal of Applied Physics, 2017, 56, 056101.	1.5	4
39	Diode-rectified multiphase AC arc for the improvement of electrode erosion characteristics. Journal Physics D: Applied Physics, 2017, 50, 465604.	2.8	6
40	Liquid exfoliation graphene sheets as catalysts for hybrid sodium-air cells. Materials Letters, 2017, 187, 32-35.	2.6	17
41	Investigation of temperature characteristics of multiphase AC arc by high-speed visualization. Journal of Fluid Science and Technology, 2017, 12, JFST0024-JFST0024.	0.6	14
42	Characteristics of water thermal plasma for biomass utilization system. Journal of Fluid Science and Technology, 2017, 12, JFST0022-JFST0022.	0.6	9
43	Effect of Saturation Pressure Difference on Metal-Silicide Nanopowder Formation in Thermal Plasma Fabrication. Nanomaterials, 2016, 6, 43.	4.1	21
44	Synthesis of Lithium Metal Oxide Nanoparticles by Induction Thermal Plasmas. Nanomaterials, 2016, 6, 60.	4.1	26
45	Induction thermal plasma synthesis of lithium oxide composite nanoparticles with a spinel structure. Japanese Journal of Applied Physics, 2016, 55, 07LE04.	1.5	7
46	Effect of precursor fraction on silicide nanopowder growth under thermal plasma conditions: A computational study. Powder Technology, 2016, 288, 191-201.	4.2	28
47	Investigation of the relationship between arc-anode attachment mode and anode temperature for nickel nanoparticle production by a DC arc discharge. Journal Physics D: Applied Physics, 2016, 49, 125201.	2.8	14
48	Investigation of erosion mechanism of tungsten-based electrode in multiphase AC arc by high-speed visualization of electrode phenomena. Japanese Journal of Applied Physics, 2016, 55, 07LC01.	1.5	14
49	Analysis of Fluctuation Phenomena in Water Plasma. IEEJ Transactions on Power and Energy, 2016, 136, 749-754.	0.2	1
50	Effects of poling termination and aging process on piezoelectric properties of Mn-doped BaTi _{0.96} Zr _{0.04} O ₃ ceramics. Japanese Journal of Applied Physics, 2015, 54, 10ND05.	1.5	6
51	Investigation of Droplet Ejection Mechanism from Electrode in Multi-Phase AC Arc. Yosetsu Gakkai Ronbunshu/Quarterly Journal of the Japan Welding Society, 2015, 33, 44s-48s.	0.5	3
52	Platelet NaNbO ₃ grown by single-step molten salt synthesis: Study on bismuth migration in topochemical conversion reaction. Japanese Journal of Applied Physics, 2014, 53, 09PB08.	1.5	1
53	Characterizations of epitaxial Bi(Mg _{1/2} Ti _{1/2})O ₃ –Bi(Zn _{1/2} Ti _{1/2})O ₃ solid solution films grown by pulsed laser deposition. Japanese Journal of Applied Physics, 2014, 53, 05FE06.		2
54	Investigation of In-flight Glass Melting by Controlling the High-Temperature Region of Multiphase AC Arc Plasma. International Journal of Applied Glass Science, 2014, 5, 443-451.	2.0	9

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55	Investigation of Electrode Phenomena in an Innovative Thermal Plasma Process for Glass Melting. Plasma Chemistry and Plasma Processing, 2014, 34, 443-456.	2.4	14
56	Measurement of anode surface temperature in carbon nanomaterial production by arc discharge method. Materials Research Bulletin, 2014, 60, 158-165.	5.2	18
57	Synthesis of cobalt boride nanoparticles using RF thermal plasma. Advanced Powder Technology, 2014, 25, 365-371.	4.1	34
58	Photocatalytic activities of europium (III) and niobium (V) co-doped TiO ₂ nanopowders synthesized in Ar/O ₂ radio-frequency thermal plasmas. Journal of Alloys and Compounds, 2014, 606, 37-43.	5.5	11
59	An Alternative Carbon Dioxide Capture by Electrochemical Method. Chemistry Letters, 2014, 43, 1601-1603.	1.3	6
60	FeRAM. , 2014, , 149-171.		2
61	Investigation of Carbon Nanomaterials Growth on Anode Surface by Arc Discharge Method. Journal of Chemical Engineering of Japan, 2014, 47, 296-300.	0.6	5
62	Preparation of boron-rich aluminum boride nanoparticles by RF thermal plasma. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	4
63	Effect of nucleation temperature and heat transfer on synthesis of Ti and Fe boride nanoparticles in RF thermal plasmas. Powder Technology, 2013, 246, 210-217.	4.2	25
64	In-flight Melting Behavior of Granulated Alkali-Free Raw Material in Induction Thermal Plasmas. Plasma Chemistry and Plasma Processing, 2013, 33, 1111-1119.	2.4	1
65	Liquid waste decomposition by long DC arc under atmospheric pressure. Chemical Engineering Journal, 2013, 231, 155-162.	12.7	8
66	Growth of (1-x)NaNbO ₃ â€“xBaTiO ₃ Single Crystals by Slow-Cooling and Flux Methods. Japanese Journal of Applied Physics, 2013, 52, 09KC02.	1.5	2
67	Thermal Treatment of Al ₂ O ₃ , MgO, and CeO ₂ Granulated Powders by Induction Thermal Plasma: A Numerical Approach. Japanese Journal of Applied Physics, 2013, 52, 01AL01.	1.5	1
68	Decomposition of Glycerine by Water Plasmas at Atmospheric Pressure. Plasma Science and Technology, 2013, 15, 357-361.	1.5	7
69	Preparation of Polyhedral Graphite Particles by Arc Discharge under Atmospheric Pressure. Japanese Journal of Applied Physics, 2013, 52, 01AK01.	1.5	4
70	Microstructure and Piezoelectric Properties of BaTiO ₃ -Bi(Mg _{1/2} Ti _{1/2})O ₃ -BiFeO ₃ Ceramics. Key Engineering Materials, 2013, 566, 59-63.	0.4	2
71	Growth of (111) One-Axis-Oriented Bi(Mg _{1/2} Ti _{1/2})O ₃ Films on (100)Si Substrates. Japanese Journal of Applied Physics, 2013, 52, 04CH09.	1.5	4
72	Squareness Control in Polarizationâ€“Electric Field Hysteresis Curves in Rhombohedral Pb(Zr,Ti)O ₃ Films. Japanese Journal of Applied Physics, 2013, 52, 04CD09.	1.5	1

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73	Mechanism of Enhanced Vaporization from Molten Metal Surface by Argon-Hydrogen Arc Plasma. Japanese Journal of Applied Physics, 2013, 52, 076201.	1.5	6
74	Preparation and dielectric property of (Li _{0.12} Na _{0.88})NbO ₃ -based solid solutions. Journal of the Ceramic Society of Japan, 2013, 121, 544-549.	1.1	0
75	Effect of sintering condition and V-doping on the piezoelectric properties of BaTiO ₃ -Bi(Mg _{1/2} Ti _{1/2})O ₃ ceramics. Journal of the Ceramic Society of Japan, 2013, 121, 589-592.	1.1	0
76	Synthesis of Niobium Boride Nanoparticle by RF Thermal Plasma. Journal of Physics: Conference Series, 2013, 441, 012031.	0.4	6
77	Synthesis of AlB ₁₂ and YB ₆₆ Nanoparticles by RF Thermal Plasmas. Journal of Physics: Conference Series, 2013, 441, 012030.	0.4	12
78	High-Speed Visualization of Electrode Erosion in Multi-Phase Alternating Current Arc. Journal of Fluid Science and Technology, 2013, 8, 160-171.	0.6	5
79	Numerical Analysis of Temperature Distribution in the Long DC Arc Thermal Plasma for Waste Treatment. Journal of Chemical Engineering of Japan, 2013, 46, 201-208.	0.6	5
80	Fluctuation Measurement of Multi-Phase AC Arc and In-Flight Particle Temperature. Journal of Chemical Engineering of Japan, 2013, 46, 672-676.	0.6	5
81	11th Asia-Pacific Conference on Plasma Science and Technology (APCPST-11) and 25th Symposium on Plasma Science for Materials (SPSM-25). Journal of Physics: Conference Series, 2013, 441, 011001.	0.4	0
82	Characterization of 12-Phase AC Arc Discharge and Glass In-Flight Melting Behavior. Advanced Materials Research, 2012, 485, 185-188.	0.3	0
83	Application and Characterization of 12-Phase AC Arc for Glass in-Flight Melting. Advanced Materials Research, 2012, 443-444, 637-642.	0.3	0
84	Film Thickness Dependence of Ferroelectric Properties of (111)-Oriented Epitaxial Bi(Mg _{1/2} Ti _{1/2})O ₃ Films. Japanese Journal of Applied Physics, 2012, 51, 09LA04.	1.5	13
85	Anisotropic electrical properties in bismuth layer structured dielectrics with natural super lattice structure. Applied Physics Letters, 2012, 101, .	3.3	2
86	Discharge Behavior Characterization of 12-Phase AC Arc and its Application. Advanced Materials Research, 2012, 479-481, 615-618.	0.3	0
87	Decomposition of 1-Decanol Emulsion by Water Thermal Plasma Jet. IEEE Transactions on Plasma Science, 2012, 40, 2831-2836.	1.3	12
88	Magnetically driven rotation of thermal plasma jet for non-degradable CF ₄ treatment. Thin Solid Films, 2012, 523, 55-62.	1.8	2
89	Discharge and optical characteristics of long arc plasma of direct current discharge. Thin Solid Films, 2012, 523, 72-75.	1.8	9
90	Experimental investigation of in-flight melting by hybrid heating of multi-phase alternating current arc with oxygen burner for alkali-free glass raw materials. Thin Solid Films, 2012, 523, 67-71.	1.8	5

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91	Selective preparation of polyhedral graphite particles and multi-wall carbon nanotubes by a transferred arc under atmospheric pressure. <i>Diamond and Related Materials</i> , 2012, 30, 70-76.	3.9	29
92	Piezoelectric enhancement of relaxor-based lead-free piezoelectric ceramics by nanodomain engineering. , 2012, , .		0
93	In-Flight Particle Measurement of Alkali-Free Glass Raw Materials in 12-Phase AC Arc Plasma. <i>Journal of Thermal Spray Technology</i> , 2012, 21, 863-872.	3.1	8
94	Microstructure of BaTiO ₃ â€“Bi(Mg _{1/2} Ti _{1/2})O ₃ â€“BiFeO ₃ Piezoelectric Ceramics. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 09LD04.		20
95	Discharge Characteristics of DC Arc Water Plasma for Environmental Applications. <i>Plasma Science and Technology</i> , 2012, 14, 1097-1101.	1.5	4
96	SIZE AND DENSITY ESTIMATION FROM IMPACT TRACK MORPHOLOGY IN SILICA AEROGEL: APPLICATION TO DUST FROM COMET 81P/WILD 2. <i>Astrophysical Journal</i> , 2012, 744, 18.	4.5	18
97	Formation mechanism of titanium boride nanoparticles by RF induction thermal plasma. <i>Chemical Engineering Journal</i> , 2012, 183, 483-491.	12.7	51
98	A comparative study of air and nitrogen thermal plasmas for PFCs decomposition. <i>Chemical Engineering Journal</i> , 2012, 185-186, 193-200.	12.7	25
99	Preparation of porous structure LiFePO ₄ /C composite by template method for lithium-ion batteries. <i>Solid State Ionics</i> , 2012, 214, 31-36.	2.7	17
100	Role of CH, CH ₃ , and OH Radicals in Organic Compound Decomposition by Water Plasmas. <i>Plasma Chemistry and Plasma Processing</i> , 2012, 32, 123-140.	2.4	15
101	Microstructure of BaTiO ₃ â€“Bi(Mg _{1/2} Ti _{1/2})O ₃ â€“BiFeO ₃ Piezoelectric Ceramics. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 09LD04.		34
102	S055026 Formation Mechanism of Boride Nanoparticles by RF Thermal Plasmas. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2012, 2012, _S055026-1-_S055026-3.	0.0	0
103	Structural Transformation of Hexagonal (0001)BaTiO ₃ Ceramics to Tetragonal (111)BaTiO ₃ Ceramics. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 09ND01.	1.5	22
104	Mechanisms of Decomposition of Organic Compounds by Water Plasmas at Atmospheric Pressure. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 08JF13.	1.5	7
105	Structural, Dielectric, and Piezoelectric Properties of Mn-Doped BaTiO ₃ â€“Bi(Mg _{1/2} Ti _{1/2})O ₃ â€“BiFeO ₃ Ceramics. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 09ND07.	1.5	42
106	Synthesis of Titanium Boride Nanoparticles by Induction Thermal Plasmas. <i>Journal of Chemical Engineering of Japan</i> , 2011, 44, 583-589.	0.6	14
107	Influence of niobium doping on phase composition and defect-mediated photoluminescence properties of Eu ³⁺ -doped TiO ₂ nanopowders synthesized in Ar/O ₂ thermal plasma. <i>Journal of Alloys and Compounds</i> , 2011, 509, 8944-8951.	5.5	5
108	Synthesis of Pure, Crystalline (Ba,Sr)TiO ₃ Nanosized Powders in Radio Frequency Induction Thermal Plasma. <i>International Journal of Applied Ceramic Technology</i> , 2011, 8, 1125-1135.	2.1	3

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109	Phase composition and magnetic properties of niobium-iron codoped TiO ₂ nanoparticles synthesized in Ar/O ₂ radio-frequency thermal plasma. <i>Journal of Solid State Chemistry</i> , 2011, 184, 2525-2532.	2.9	3
110	Stability analysis of multi-phase AC arc discharge for in-flight glass melting. <i>Current Applied Physics</i> , 2011, 11, S35-S39.	2.4	16
111	Application of synchrotron-based reciprocal-space mapping at a fixed angular position to identification of crystal symmetry of Bi ₄ Ti ₃ O ₁₂ epitaxial thin films. <i>Journal of Applied Crystallography</i> , 2011, 44, 385-391.	4.5	5
112	Decomposition mechanism of phenol in water plasmas by DC discharge at atmospheric pressure. <i>Chemical Engineering Journal</i> , 2011, 168, 985-993.	12.7	33
113	In-flight melting behavior of different glass raw materials by hybrid heating of twelve-phase ac arc with oxygen burner. <i>Thin Solid Films</i> , 2011, 519, 7005-7008.	1.8	11
114	Investigation of Multiphase AC Arc Behavior by High-Speed Video Observation. <i>IEEE Transactions on Plasma Science</i> , 2011, 39, 2904-2905.	1.3	18
115	High-concentration niobium (V) doping into TiO ₂ nanoparticles synthesized by thermal plasma processing. <i>Journal of Materials Research</i> , 2011, 26, 658-671.	2.6	17
116	A223 Decomposition of Liquid Wastes by DC Water Plasma under Atmospheric Pressure. <i>The Proceedings of the Thermal Engineering Conference</i> , 2011, 2011, 241-242.	0.0	0
117	Synthesis of Nanoparticles by Thermal Plasmas and Functionalization. <i>Journal of the Society of Powder Technology, Japan</i> , 2011, 48, 632-640.	0.1	1
118	Mechanisms of Decomposition of Organic Compounds by Water Plasmas at Atmospheric Pressure. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 08JF13.	1.5	0
119	Piezoelectric anomalies at the ferroelastic phase transitions of lead-free tungsten bronze ferroelectrics. <i>Journal of the Ceramic Society of Japan</i> , 2010, 118, 717-721.	1.1	10
120	Low temperature synthesis of tetragonal BaTiO ₃ by using molten salt. <i>Journal of the Ceramic Society of Japan</i> , 2010, 118, 738-740.	1.1	3
121	Decomposition Mechanism of Fluorinated Compounds in Water Plasmas Generated Under Atmospheric Pressure. <i>Plasma Chemistry and Plasma Processing</i> , 2010, 30, 813-829.	2.4	35
122	Growth model of binary alloy nanopowders for thermal plasma synthesis. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	67
123	Anisotropic Polarization Switching in Tungsten Bronze Ferroelectrics in Binary (Bi _{1/2} Na _{1/2})Nb ₂ O ₆ -BaNb ₂ O ₆ System. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 09MD12.	1.5	3
124	Innovative in-flight glass-melting technology using thermal plasmas. <i>Pure and Applied Chemistry</i> , 2010, 82, 1337-1351.	1.9	26
125	Photoinduced Phase Transformations in Boron Nitride: New Polytypic Forms of sp ³ -Bonded (6H- and 30H-) BN. <i>Journal of Physical Chemistry C</i> , 2010, 114, 13176-13186.	3.1	11
126	DC Water Plasma at Atmospheric Pressure for the Treatment of Aqueous Phenol. <i>Environmental Science & Technology</i> , 2010, 44, 4710-4715.	10.0	39

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127	Hyomen Gijutsu Journal of the Surface		
128	Domain Observation for BaTiO ₃ Ceramics by a Combination of Chemical Etching and Electron Backscattered Diffraction. Japanese Journal of Applied Physics, 2009, 48, 09KF02.	1.5	4
129	Characteristics of Multi-Phase Alternating Current Arc for Glass In-Flight Melting. Plasma Chemistry and Plasma Processing, 2009, 29, 333-346.	2.4	8
130	Two-Directional Nodal Model for Co-Condensation Growth of Multicomponent Nanoparticles in Thermal Plasma Processing. Journal of Thermal Spray Technology, 2009, 18, 1022-1037.	3.1	34
131	A Numerical Study of Plasma-Particle Heat Transfer Dynamics in Induction Thermal Plasmas for Glassification. IEEJ Transactions on Electrical and Electronic Engineering, 2009, 4, 504-509.	1.4	5
132	Decomposition mechanism of organic compounds by DC water plasmas at atmospheric pressure. Thin Solid Films, 2009, 518, 924-928.	1.8	35
133	Decomposition of tetrafluoromethane by water plasma generated under atmospheric pressure. Thin Solid Films, 2009, 518, 929-935.	1.8	30
134	In-flight thermal treatment of soda-lime-silica glass powders for glass production by argon-oxygen induction thermal plasmas. Chemical Engineering Journal, 2009, 150, 561-568.	12.7	14
135	P-type sp ³ -bonded BN/n-type Si heterodiode solar cell fabricated by laser-plasma synchronous CVD method. Journal Physics D: Applied Physics, 2009, 42, 225107.	2.8	6
136	Water plasma generation under atmospheric pressure for HFC destruction. Thin Solid Films, 2008, 516, 4391-4396.	1.8	48
137	Investigation on in-flight melting behavior of granulated alkali-free glass raw material under different conditions with 12-phase AC arc. Chemical Engineering Journal, 2008, 144, 317-323.	12.7	21
138	Effect of bias application on c-BN synthesis by induction thermal plasmas under atmospheric pressure. Thin Solid Films, 2008, 516, 4462-4467.	1.8	6
139	Two-dimensional analysis of nanoparticle formation in induction thermal plasmas with counterflow cooling. Thin Solid Films, 2008, 516, 4415-4422.	1.8	29
140	A numerical analysis of plasma-particle heat exchange during in-flight treatment of granulated powders by argon-oxygen induction thermal plasmas. Thin Solid Films, 2008, 516, 6634-6639.	1.8	3
141	Effects of feed rate and particle size on the in-flight melting behavior of granulated powders in induction thermal plasmas. Thin Solid Films, 2008, 516, 6622-6627.	1.8	15
142	Vaporization mechanism from Sn-Ag mixture by Ar-H ₂ Arc for nanoparticle preparation. Thin Solid Films, 2008, 516, 6645-6649.	1.8	40
143	In-Flight-Melted Soda-Lime-Silica Glass by RF Induction Thermal Plasma. Journal of the American Ceramic Society, 2008, 91, 3908-3914.	3.8	10
144	In-flight melting of granulated powders by 12-phase AC arc discharge for glass production. , 2008, , .		0

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145	Growth Behavior of Atomic-Layer-Deposited Pb(Zr,Ti)O _x Thin Films on Planar Substrate and Three-Dimensional Hole Structures. Journal of the Electrochemical Society, 2008, 155, D715.	2.9	25
146	Liquid injection atomic layer deposition of perovskite-type multi-component oxide thin films for ferroelectric and higher-k three dimensional capacitor structures. , 2008, , .		2
147	An innovative energy-saving in-flight melting technology and its application to glass production. Science and Technology of Advanced Materials, 2008, 9, 025013.	6.1	42
148	Numerical investigation of cooling effect on platinum nanoparticle formation in inductively coupled thermal plasmas. Journal of Applied Physics, 2008, 103, .	2.5	55
149	Liquid Waste Decomposition by DC Water Plasmas at Atmospheric Pressure. Transactions of the Materials Research Society of Japan, 2008, 33, 691-694.	0.2	2
150	Improvement of UV Luminescence Properties of Gallium Nitride Powder by Hydrogen Radical Irradiation. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2008, 55, 211-215.	0.2	0
151	Growth Mechanism of Sn-Ag Nanoparticles Prepared by Ar-H2 Arc. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2008, 55, 446-451.	0.2	2
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153	Control of Size and Composition of Sn based nanoparticles prepared by Ar-H2 arc. Transactions of the Materials Research Society of Japan, 2008, 33, 687-690.	0.2	2
154	Water Plasma Generation Under Atmospheric Pressure for Waste Treatment. ASEAN Journal of Chemical Engineering, 2008, 5, 30.	0.5	21
155	Liquid Injection Atomic Layer Deposition of TiO _x Films Using Ti[OCH(CH ₃)] ₂ . Journal of the Electrochemical Society, 2007, 154, G134.	2.9	18
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