

Takamasa Ishigaki

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

145 papers	4,789 citations	34 h-index	67 g-index
158 ext. papers	5,050 ext. citations	3 avg, IF	5.34 L-index

#	Paper	IF	Citations
145	Fabrication and characterization of zeolite bulk body containing mesopores and macropores using starch as pore-forming agent. <i>Advanced Powder Technology</i> , 2022 , 33, 103626	4.6	0
144	Size Effect of Hydroxide Nanobuilding Blocks and Nonionic Block Copolymer Templates on the Formation of Ordered Mesoporous Structures. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 4883-4889	3.4	2
143	Spontaneously formed gradient chemical compositional structures of niobium doped titanium dioxide nanoparticles enhance ultraviolet- and visible-light photocatalytic performance. <i>Scientific Reports</i> , 2021 , 11, 15236	4.9	0
142	Organic-Inorganic Hybrid Nanocrystal-based Cryogels with Size-Controlled Mesopores and Macropores. <i>Langmuir</i> , 2021 , 37, 2884-2890	4	1
141	Investigation of Temperature-Dependent Hard X-ray Photoemission Spectra on Au/Nb:SrTiO ₃ Schottky Junctions. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 14836-14842	3.8	2
140	Effect of crystalline orientation on photocatalytic performance for Nb-doped TiO ₂ nanoparticles. <i>Advanced Powder Technology</i> , 2021 , 32, 4149-4149	4.6	0
139	Interconnection of organic-inorganic hybrid nano-building blocks towards thermally robust mesoporous structures. <i>Nanoscale</i> , 2021 , 13, 11446-11454	7.7	
138	Fabrication of porous (Ba,Sr)(Co,Fe)O _{3-λ} (BSCF) ceramics using gelatinization and retrogradation phenomena of starch as pore-forming agent. <i>Ceramics International</i> , 2020 , 46, 13047-13053	5.1	4
137	Enhanced visible-light photocatalytic activity of anatase-rutile mixed-phase nano-size powder given by high-temperature heat treatment. <i>Royal Society Open Science</i> , 2020 , 7, 191539	3.3	10
136	Sol-gel processed niobium oxide thin-film for a scaffold layer in perovskite solar cells. <i>Thin Solid Films</i> , 2019 , 674, 7-11	2.2	2
135	Anisotropic Electric Conductivity and Battery Performance in C-axis Oriented Lanthanum Silicate Oxyapatite Prepared by Slip Casting in a Strong Magnetic Field. <i>Materials Transactions</i> , 2019 , 60, 1949-1953	1.3	1
134	Growth-Parameter Dependence of Polarity and Electronic Transports in ZnO Thin Films Deposited by Magnetron Sputtering. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018 , 215, 1700838	1.6	1
133	Anisotropic Electronic Conductivity and Battery Performance in C-axis Oriented Lanthanum Silicate Oxyapatite Prepared by Slip Casting in a Strong Magnetic Field. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2018 , 65, 121-126	0.2	
132	Electronic Transport Properties Governed by Polarity Control through Tailoring of ZnO Bilayer Structures. <i>Crystal Growth and Design</i> , 2018 , 18, 5824-5831	3.5	5
131	Synthesis of Functional Oxide Nanoparticles Through RF Thermal Plasma Processing. <i>Plasma Chemistry and Plasma Processing</i> , 2017 , 37, 783-804	3.6	12
130	Crystalline polarity of ZnO thin films deposited under dc external bias on various substrates. <i>Journal of Crystal Growth</i> , 2017 , 463, 38-45	1.6	5
129	Influence of Hydrogen Peroxide Addition on Photoluminescence of Y ₂ O ₃ :Eu ³⁺ Nanophosphors Prepared by Laser Ablation in Water. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 1083-1090	3.8	5

128	Photocatalytic activities of europium (III) and niobium (V) co-doped TiO ₂ nanopowders synthesized in Ar/O ₂ radio-frequency thermal plasmas. <i>Journal of Alloys and Compounds</i> , 2014 , 606, 37-43	5.7	10
127	Tuning the size of aluminum oxide nanoparticles synthesized by laser ablation in water using physical and chemical approaches. <i>Journal of Colloid and Interface Science</i> , 2013 , 392, 172-182	9.3	25
126	Effect of hydrogen radical on decomposition of chlorosilane source gases. <i>Journal of Physics: Conference Series</i> , 2013 , 441, 012003	0.3	1
125	One-step Ar/O ₂ thermal plasma processing of Y ₂ O ₃ :Eu ³⁺ red phosphors: Phase structure, photoluminescent properties, and the effects of Sc ³⁺ codoping. <i>Journal of Solid State Chemistry</i> , 2012 , 196, 58-62	3.3	11
124	Effect of liquid level and laser power on the formation of spherical alumina nanoparticles by nanosecond laser ablation of alumina target. <i>Thin Solid Films</i> , 2012 , 523, 46-51	2.2	25
123	Polarity-dependent photoemission spectra of wurtzite-type zinc oxide. <i>Applied Physics Letters</i> , 2012 , 100, 051902	3.4	29
122	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	5.7	5
121	Highly dispersed behavior of thermal plasma-synthesized TiO ₂ nanoparticles in water. <i>Journal of the Ceramic Society of Japan</i> , 2011 , 119, 303-306	1	5
120	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	2
119	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	3.3	2
118	Generalized wet-chemical processing of phosphor monospheres and the effects of composition on photoluminescence. <i>IOP Conference Series: Materials Science and Engineering</i> , 2011 , 18, 042002	0.4	
117	Planarization of Zinc Oxide Surface and Evaluation of Processing Damage. <i>Key Engineering Materials</i> , 2011 , 485, 215-218	0.4	4
116	High-concentration niobium (V) doping into TiO ₂ nanoparticles synthesized by thermal plasma processing. <i>Journal of Materials Research</i> , 2011 , 26, 658-671	2.5	14
115	Potential use of only YbO in producing dense SiN ceramics with high thermal conductivity by gas pressure sintering. <i>Science and Technology of Advanced Materials</i> , 2010 , 11, 065001	7.1	24
114	Acidic Hydrothermal Conversion of Degussa P25 into Rutile Nanocrystals and Particle Morphology Control. <i>Current Nanoscience</i> , 2010 , 6, 110-115	1.4	
113	Fine-grained AlN ceramics from nanopowder by spark plasma sintering. <i>Journal of the Ceramic Society of Japan</i> , 2010 , 118, 1050-1052	1	4
112	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	
111	Iron nanoparticles dispersible in both ethanol and water for direct silica coating. <i>Powder Technology</i> , 2009 , 196, 80-84	5.2	11

110	Oxidation-Resistant Silica Coating on Gas-Phase-Reduced Iron Nanoparticles and Influence on Magnetic Properties. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 16681-16685	3.8	40
109	Cobalt-Doped TiO ₂ Nanocrystallites: Radio-Frequency Thermal Plasma Processing, Phase Structure, and Magnetic Properties. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 8009-8015	3.8	76
108	Monodispersed Colloidal Spheres for Uniform Y ₂ O ₃ :Eu ³⁺ Red-Phosphor Particles and Greatly Enhanced Luminescence by Simultaneous Gd ³⁺ Doping. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 11707-11716	3.8	270
107	Uniform Colloidal Spheres for (Y _{1-x} Gd _x) ₂ O ₃ (x = 0.1): Formation Mechanism, Compositional Impacts, and Physicochemical Properties of the Oxides. <i>Chemistry of Materials</i> , 2008 , 20, 2274-2281	9.6	142
106	Synthesis of functional TiO ₂ -based nanoparticles in radio frequency induction thermal plasma. <i>Pure and Applied Chemistry</i> , 2008 , 80, 1971-1979	2.1	12
105	Synthesis of Nano-size Particles through Reactive Thermal Plasma Processing. <i>Journal of the Society of Powder Technology, Japan</i> , 2008 , 45, 220-228	0.3	3
104	Synthesis of ceramic nanoparticles with non-equilibrium crystal structures and chemical compositions by controlled thermal plasma processing. <i>Journal of the Ceramic Society of Japan</i> , 2008 , 116, 462-470	1	13
103	Dispersion Behavior of Spindle-Type Iron Nanoparticles in Organic Solvents. <i>Journal of the Society of Powder Technology, Japan</i> , 2008 , 45, 773-779	0.3	1
102	Improvement of UV Luminescence Properties of Gallium Nitride Powder by Hydrogen Radical Irradiation. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2008 , 55, 211-215	0.2	
101	Spherical submicron-size copper powders coagulated from a vapor phase in RF induction thermal plasma. <i>Thin Solid Films</i> , 2008 , 516, 4402-4406	2.2	27
100	Defect-mediated photoluminescence dynamics of Eu ³⁺ -doped TiO ₂ nanocrystals revealed at the single-particle or single-aggregate level. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 5348-52	16.4	72
99	Defect-Mediated Photoluminescence Dynamics of Eu ³⁺ -Doped TiO ₂ Nanocrystals Revealed at the Single-Particle or Single-Aggregate Level. <i>Angewandte Chemie</i> , 2008 , 120, 5428-5432	3.6	4
98	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
97	Densification below 1000°C and grain growth behaviors of yttria doped ceria ceramics. <i>Solid State Ionics</i> , 2008 , 179, 951-954	3.3	13
96	Nonequilibrium situations in a pulse-modulated Ar/H ₂ inductively coupled thermal plasma for hydrogen doping. <i>Thin Solid Films</i> , 2008 , 516, 4407-4414	2.2	2
95	Phase formation and luminescence properties in Eu ³⁺ -doped TiO ₂ nanoparticles prepared by thermal plasma pyrolysis of aqueous solutions. <i>Thin Solid Films</i> , 2008 , 516, 6640-6644	2.2	24
94	Nanocrystalline Scandia Powders Via Oxalate Precipitation: The Effects of Solvent and Solution pH. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 603-606	3.8	9
93	Energy Transfer Enables 1.53 μ m Photoluminescence from Erbium-Doped TiO ₂ Semiconductor Nanocrystals Synthesized by Ar/O ₂ Radio-Frequency Thermal Plasma. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 2032-2035	3.8	11

92	Ultrasonic Dispersion of TiO ₂ Nanoparticles in Aqueous Suspension. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 2481-2487	3.8	121
91	NANO POWDER SYNTHESIS BY PLASMAReport of the Session held at the International Round Table on Thermal Plasma Fundamentals and ApplicationsHeld in Sharm el Sheikh Egypt - Jan. 14-18 2007. <i>High Temperature Material Processes</i> , 2008 , 12, 205-254	1.8	6
90	Stability of Ultrasonicated TiO ₂ Nanoparticles Slurry. <i>Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2008 , 55, 263-269	0.2	
89	Chlorinated Nanocrystalline TiO ₂ Powders via One-Step Ar/O ₂ Radio Frequency Thermal Plasma Oxidizing Mists of TiCl ₃ Solution: Phase Structure and Photocatalytic Performance. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 18018-18024	3.8	22
88	Control of particle size and phase formation of TiO ₂ nanoparticles synthesized in RF induction plasma. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 2348-2353	3	66
87	Synthesis of Functional Nano-Structured Powders Using Thermal Plasma Processing. <i>Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2007 , 54, 23-31	0.2	1
86	Spherical Submicron-size Copper and Copper-tungsten Powders Prepared in RF Induction Thermal Plasma. <i>Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2007 , 54, 39-43	0.2	1
85	Synthesis of functional nanocrystallites through reactive thermal plasma processing. <i>Science and Technology of Advanced Materials</i> , 2007 , 8, 617-623	7.1	24
84	Nano Ceramics Center, National Institute for Materials Science. <i>Science and Technology of Advanced Materials</i> , 2007 , 8, 571-577	7.1	2
83	Lowered stimulated emission threshold of zinc oxide by hydrogen doping with pulsed argonHydrogen plasma. <i>Journal of Crystal Growth</i> , 2007 , 306, 316-320	1.6	35
82	Influence of Solid Fraction on the Optimum Molecular Weight of Polymer Dispersants in Aqueous TiO ₂ Nanoparticle Suspensions. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 3401-3406	3.8	33
81	Numerical Modeling of an Ar/H ₂ Radio-Frequency Plasma Reactor under Thermal and Chemical Nonequilibrium Conditions. <i>Plasma Chemistry and Plasma Processing</i> , 2007 , 27, 189-204	3.6	24
80	Controlled synthesis of alumina nanoparticles using inductively coupled thermal plasma with enhanced quenching. <i>Thin Solid Films</i> , 2007 , 515, 4251-4257	2.2	50
79	Size Control of TiO ₂ Nanoparticles Prepared by Oxidative Pyrolysis of Liquid-Mist Precursors in RF Thermal Plasma. <i>Key Engineering Materials</i> , 2007 , 352, 119-124	0.4	
78	Synthesis and Structural Characterization of Core-Shell Si-SiC Composite Particles by Thermal Plasma In-Flight Carburization of Silicon Powder. <i>Journal of the Ceramic Society of Japan</i> , 2007 , 115, 717-723	1	8
77	Anatase, Brookite, and Rutile Nanocrystals via Redox Reactions under Mild Hydrothermal Conditions: Phase-Selective Synthesis and Physicochemical Properties. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 4969-4976	3.8	331
76	RF plasma processing of Er-doped TiO ₂ luminescent nanoparticles. <i>Thin Solid Films</i> , 2006 , 506-507, 292-296		17
75	TiO ₂ nanopowders via radio-frequency thermal plasma oxidation of organic liquid precursors: Synthesis and characterization. <i>Journal of the European Ceramic Society</i> , 2006 , 26, 423-428	6	44

74	Enhancement and patterning of ultraviolet emission in ZnO with an electron beam. <i>Applied Physics Letters</i> , 2006 , 88, 134103	3.4	95
73	Phase structure and luminescence properties of Eu ³⁺ -doped TiO ₂ nanocrystals synthesized by Ar/O ₂ radio frequency thermal plasma oxidation of liquid precursor mists. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 1121-7	3.4	122
72	Wavelength-sensitive photocatalytic degradation of methyl orange in aqueous suspension over iron(III)-doped TiO ₂ nanopowders under UV and visible light irradiation. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 6804-9	3.4	318
71	Urea coordinated titanium trichloride Ti(III)[OC(NH) ₂] ₆ Cl ₃ : a single molecular precursor yielding highly visible light responsive TiO ₂ nanocrystallites. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 14611-8	3.4	24
70	Characterization of the behavior of chemically reactive species in a nonequilibrium inductively coupled argon-hydrogen thermal plasma under pulse-modulated operation. <i>Journal of Applied Physics</i> , 2006 , 100, 103303	2.5	19
69	Improved UV emission of zinc oxide through hydrogen doping in pulse-modulated high-power ICP. <i>Thin Solid Films</i> , 2006 , 506-507, 303-306	2.2	9
68	Growth mechanism for carbon nanotubes in a plasma evaporation process. <i>Thin Solid Films</i> , 2006 , 506-507, 263-267	2.2	9
67	Crystallized TiO ₂ film growth on unheated substrates by pulse-powered magnetron sputtering. <i>Thin Solid Films</i> , 2006 , 515, 627-630	2.2	5
66	. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2006 , 57, 18-24	0.1	4
65	Controlled generation of pulse-modulated RF plasmas for materials processing. <i>Plasma Sources Science and Technology</i> , 2005 , 14, 387-396	3.5	24
64	Pyrogenic iron(III)-doped TiO ₂ nanopowders synthesized in RF thermal plasma: phase formation, defect structure, band gap, and magnetic properties. <i>Journal of the American Chemical Society</i> , 2005 , 127, 10982-90	16.4	238
63	Controlling the synthesis of TaC nanopowders by injecting liquid precursor into RF induction plasma. <i>Science and Technology of Advanced Materials</i> , 2005 , 6, 111-118	7.1	71
62	Strain-induced charge separation in the photocatalytic single crystalline anatase TiO ₂ film. <i>Chemical Physics Letters</i> , 2005 , 407, 209-212	2.5	17
61	In-Flight Nitridation of Molybdenum Disilicide Powders by an Induction Plasma. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 2517-2526	3.8	9
60	Synthesis of Anatase-Type TiO ₂ Nanocrystallites Via a Redox Route. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 3232-3234	3.8	5
59	Reactive 10 mol% RE ₂ O ₃ (RE = Gd and Sm) doped CeO ₂ nanopowders: Synthesis, characterization, and low-temperature sintering into dense ceramics. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005 , 121, 54-59	3.1	33
58	Nanocrystalline TiO ₂ powders synthesized by in-flight oxidation of TiN in thermal plasma: Mechanisms of phase selection and particle morphology evolution. <i>Journal of Materials Research</i> , 2005 , 20, 529-537	2.5	34
57	Effect of Postdeposition Annealing on Luminescence from Zinc Oxide Patterns Prepared by the Electroless Deposition Process. <i>Journal of the Electrochemical Society</i> , 2004 , 151, H169	3.9	24

56	Mo ₅ Si ₃ -Boron Composites Fabricated by Induction Plasma Deposition and Their High-Temperature Oxidation Resistance. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 1965-1968	3.8	13
55	Spheroidization of Titanium Carbide Powders by Induction Thermal Plasma Processing. <i>Journal of the American Ceramic Society</i> , 2004 , 84, 1929-1936	3.8	36
54	Monodispersed Spherical Particles of Brookite-Type TiO ₂ : Synthesis, Characterization, and Photocatalytic Property. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 1358-1361	3.8	91
53	In-flight Carburization of Molybdenum Disilicide Powders by an Induction Plasma. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 281-288	3.8	14
52	Preparation of pure rutile and anatase TiO ₂ nanopowders using RF thermal plasma. <i>Thin Solid Films</i> , 2004 , 457, 186-191	2.2	87
51	Influence of active surface on electrochemical properties of mesocarbon microbeads powders. <i>Journal of Power Sources</i> , 2004 , 133, 260-262	8.9	3
50	Brookite -rutile phase transformation of TiO ₂ studied with monodispersed particles. <i>Acta Materialia</i> , 2004 , 52, 5143-5150	8.4	99
49	Charge separation at the rutile/anatase interface: a dominant factor of photocatalytic activity. <i>Chemical Physics Letters</i> , 2004 , 390, 399-402	2.5	123
48	Controlled One-Step Synthesis of Nanocrystalline Anatase and Rutile TiO ₂ Powders by In-Flight Thermal Plasma Oxidation. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 15536-15542	3.4	63
47	Core-shell micron-scale composites of titanium oxide and carbide formed through controlled thermal-plasma oxidation. <i>Chemical Physics Letters</i> , 2003 , 367, 561-565	2.5	22
46	Incongruent vaporization of titanium carbide in thermal plasma. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 345, 301-308	5.3	23
45	Phase Formation and Microstructure of Titanium Oxides and Composites Produced by Thermal Plasma Oxidation of Titanium Carbide. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 1456-1463	3.8	21
44	Effect of additives on photocatalytic activity of titanium dioxide powders synthesized by thermal plasma. <i>Thin Solid Films</i> , 2003 , 435, 252-258	2.2	64
43	Passivation of active recombination centers in ZnO by hydrogen doping. <i>Journal of Applied Physics</i> , 2003 , 93, 6386-6392	2.5	103
42	Influence of Post-Processing Atmosphere on Electrochemical Properties of Thermal Plasma Treated Graphite Particles. <i>Electrochemistry</i> , 2003 , 71, 1078-1080	1.2	3
41	Porous Carbon Powders Prepared from Spherical Phenolic Resin Powder by Thermal Plasma Carbonization and Their Electrochemical Properties.. <i>Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal</i> , 2002 , 2002, 27-35		4
40	Synthesis and structural characterization of titanium oxides and composites by thermal plasma oxidation of titanium carbide. <i>Thin Solid Films</i> , 2002 , 407, 79-85	2.2	30
39	Thermodynamic analysis of nucleation of anatase and rutile from TiO ₂ melt. <i>Journal of Crystal Growth</i> , 2002 , 242, 511-516	1.6	116

38	Formation of Ti ₂ AlC Nanocrystals via Vapor-Condensation through the Thermal Plasma Vaporization of TiC and Al.. <i>Journal of the Ceramic Society of Japan</i> , 2002 , 110, 830-833		1
37	Passivation of Defects in ZnO by Hydrogen Plasma Irradiation. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 744, 1		1
36	Effect of hydrogen doping on ultraviolet emission spectra of various types of ZnO. <i>Applied Physics Letters</i> , 2002 , 80, 2869-2871	3.4	167
35	Surface modification of titanium oxide in pulse-modulated induction thermal plasma. <i>Thin Solid Films</i> , 2001 , 390, 20-25	2.2	19
34	Mo ₅ Si ₃ -B and MoSi ₂ deposits fabricated by radio frequency induction plasma spraying. <i>Journal of Thermal Spray Technology</i> , 2001 , 10, 611-617	2.5	10
33	Heat and mass transfer during in-flight nitridation of molybdenum disilicide powder in an induction plasma reactor. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 300, 226-234	5.3	13
32	Reaction and Formation of Crystalline Silicon Oxynitride in Si ₃ N ₄ Systems under Solid High Pressure. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 875-877	3.8	7
31	Synthesis of Crystalline Micron Spheres of Titanium Dioxide by Thermal Plasma Oxidation of Titanium Carbide. <i>Chemistry of Materials</i> , 2001 , 13, 1577-1584	9.6	42
30	Integrated Fabrication Processes for Solid-Oxide Fuel Cells Using Thermal Plasma Spray Technology. <i>MRS Bulletin</i> , 2000 , 25, 38-42	3.2	21
29	Calculated C-MoSi ₂ and B-Mo ₅ Si ₃ pseudo-binary phase diagrams for the use in advanced materials processing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000 , 278, 46-53	5.3	28
28	Generation of Inductively Coupled Thermal Plasma with Pulse Modulated Mode. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 1999 , 63, 2-8	0.4	2
27	Compositional modification of boron carbide induced by induction plasma treatment. <i>Thin Solid Films</i> , 1999 , 345, 156-160	2.2	8
26	Oxygen Diffusion in Single- and Poly-Crystalline Zinc Oxides 1999 , 4, 41-48		50
25	Pulse-Modulated RF Thermal Plasma for Advanced Materials Processing. <i>Journal of Intelligent Material Systems and Structures</i> , 1999 , 10, 565-568	2.3	7
24	Diffusion Mechanism of Oxide Ions in Mn-Zn-ferrites.. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 1999 , 46, 28-35	0.2	
23	Application of Titanium Carbide Powders Treated in RF Induction Plasma to Al ₂ O ₃ -TiC Composite Ceramics. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 1999 , 63, 82-89	0.4	
22	Parametric Study on Nitridation and Carburization of MoSi ₂ Powders in an Induction Plasma. <i>Plasma Chemistry and Plasma Processing</i> , 1998 , 18, 487-507	3.6	5
21	In-flight nitriding of the MoSi ₂ powders in an Ar-N ₂ induction plasma. <i>Thin Solid Films</i> , 1998 , 316, 174-177	2.2	2

20	Cubic C ₃ N ₄ particles prepared in an induction thermal plasma. <i>Applied Physics Letters</i> , 1998 , 73, 3671-3673	3.4	35
19	Influence of Plasma Modification of Glassy Carbon Powder on Its Electrochemical properties. <i>Chemistry Letters</i> , 1998 , 27, 715-716	1.7	13
18	Phase formation in molybdenum disilicide powders during in-flight induction plasma treatment. <i>Journal of Materials Research</i> , 1997 , 12, 1315-1326	2.5	36
17	Generation of pulse-modulated induction thermal plasma at atmospheric pressure. <i>Applied Physics Letters</i> , 1997 , 71, 3787-3789	3.4	53
16	Critical free energy for nucleation from the congruent melt of MoSi ₂ . <i>Journal of Crystal Growth</i> , 1997 , 171, 166-173	1.6	18
15	Thermal plasma treatment of titanium carbide powders: Part I. Numerical analysis of powder behavior in argon-hydrogen and argon-nitrogen radio frequency plasmas. <i>Journal of Materials Research</i> , 1996 , 11, 2598-2610	2.5	13
14	Thermal plasma treatment of titanium carbide powders: Part II. In-flight formation of carbon-site vacancies and subsequent nitridation in titanium carbide powders during induction plasma treatment. <i>Journal of Materials Research</i> , 1996 , 11, 2811-2824	2.5	25
13	Evaluation of the surface structure of diamond films prepared in a combustion flame by surface-enhanced Raman scattering. <i>Applied Physics Letters</i> , 1992 , 60, 959-961	3.4	13
12	Surface and step reconstructions on {100} and {111} planes of diamonds prepared by combustion-flame deposition. <i>Journal of Applied Physics</i> , 1992 , 71, 4920-4924	2.5	23
11	Novel etching method for MgO {100} by using a combustion-flame. <i>Journal of Crystal Growth</i> , 1992 , 121, 250-253	1.6	
10	Spontaneous growth of whiskers from an interlayer of Mo ₂ C beneath a diamond particle deposited in a combustion-flame. <i>Journal of Crystal Growth</i> , 1992 , 116, 307-313	1.6	5
9	Pressureless sintering of TiC-Al ₂ O ₃ composites. <i>Journal of Materials Science Letters</i> , 1989 , 8, 678-680		21
8	Diffusion of oxide ion vacancies in perovskite-type oxides. <i>Journal of Solid State Chemistry</i> , 1988 , 73, 179-187	3.3	280
7	Diffusion Profile Measurement Using SIMS in La _{0.9} Sr _{0.1} FeO ₃ and La _{0.9} Sr _{0.1} CoO ₃ . <i>Journal of the Ceramic Association Japan</i> , 1987 , 95, 1031-1033		3
6	Single-Crystal Growth of Perovskite-Type La _{1-x} Sr _x MO ₃ (M=Fe, Co) Solid Solutions. <i>Japanese Journal of Applied Physics</i> , 1984 , 23, 1172-1175	1.4	18
5	Tracer diffusion coefficient of oxide ions in LaCoO ₃ single crystal. <i>Journal of Solid State Chemistry</i> , 1984 , 54, 100-107	3.3	73
4	Diffusion of oxide ions in LaFeO ₃ single crystal. <i>Journal of Solid State Chemistry</i> , 1984 , 55, 50-53	3.3	56
3	Tracer diffusion coefficient of oxide ions in LaCoO ₃ . <i>Solid State Ionics</i> , 1983 , 9-10, 997-1000	3.3	10

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| 2 | Structure and Photochemical Properties of a $\text{TiO}_2\text{-In}_2\text{O}_3\text{-SnO}_2\text{-Al}_2\text{O}_3$ Film Prepared by Electrolysis of an Aqueous Solution. <i>Ceramic Transactions</i> ,337-343 | 0.1 |
| 1 | Effect of Ultrasonication on Dispersion and Aggregate Size of TiO_2 Nanoparticles in Concentrated Aqueous Suspension. <i>Ceramic Transactions</i> ,361-367 | 0.1 |