

Hidehiro Yoshida

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184
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36
h-index

56
g-index

186
ext. papers

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ext. citations

3.4
avg, IF

5.5
L-index

#	Paper	IF	Citations
184	Spark plasma sintering of transparent alumina. <i>Scripta Materialia</i> , 2007 , 57, 607-610	5.6	212
183	Microstructure and optical properties of transparent alumina. <i>Acta Materialia</i> , 2009 , 57, 1319-1326	8.4	143
182	Effects of heating rate on microstructure and transparency of spark-plasma-sintered alumina. <i>Journal of the European Ceramic Society</i> , 2009 , 29, 323-327	6	134
181	Densification behaviour and microstructural development in undoped yttria prepared by flash-sintering. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 991-1000	6	128
180	Cubic-Formation and Grain-Growth Mechanisms in Tetragonal Zirconia Polycrystal. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 1401-1408	3.8	125
179	High-temperature Creep Resistance in Rare-earth-doped, Fine-grained Al ₂ O ₃ . <i>Journal of Materials Research</i> , 1998 , 13, 2597-2601	2.5	110
178	Grain boundary electronic structure related to the high-temperature creep resistance in polycrystalline Al ₂ O ₃ . <i>Acta Materialia</i> , 2002 , 50, 2955-2966	8.4	109
177	Spark-Plasma-Sintering Condition Optimization for Producing Transparent MgAl ₂ O ₄ Spinel Polycrystal. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 1208-1216	3.8	101
176	Grain-boundary structure and microstructure development mechanism in 28mol% yttria-stabilized zirconia polycrystals. <i>Acta Materialia</i> , 2008 , 56, 1315-1325	8.4	100
175	High-temperature grain boundary sliding behavior and grain boundary energy in cubic zirconia bicrystals. <i>Acta Materialia</i> , 2004 , 52, 2349-2357	8.4	96
174	Mantle superplasticity and its self-made demise. <i>Nature</i> , 2010 , 468, 1091-4	50.4	69
173	Spectroscopic study of the discoloration of transparent MgAl ₂ O ₄ spinel fabricated by spark-plasma-sintering (SPS) processing. <i>Acta Materialia</i> , 2015 , 84, 9-19	8.4	64
172	Fabrication of Transparent Yttria by High-Pressure Spark Plasma Sintering. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 3206-3210	3.8	62
171	Highly transparent α -alumina obtained by low cost high pressure SPS. <i>Ceramics International</i> , 2013 , 39, 3243-3248	5.1	60
170	Effect of alumina-doping on grain boundary segregation-induced phase transformation in yttria-stabilized tetragonal zirconia polycrystal. <i>Journal of Materials Research</i> , 2006 , 21, 2278-2289	2.5	57
169	The effect of additives on sintering behavior and strength retention in silicon nitride with RE-disilicate. <i>Journal of the European Ceramic Society</i> , 2002 , 22, 527-534	6	56
168	Improvement of high-temperature creep resistance in fine-grained Al ₂ O ₃ by Zr ⁴⁺ segregation in grain boundaries. <i>Philosophical Magazine Letters</i> , 1997 , 76, 9-14	1	54

167	Effects of Preheating of Powder Before Spark Plasma Sintering of Transparent MgAl ₂ O ₄ Spinel. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 2158-2160	3.8	52
166	Reduction in sintering temperature for flash-sintering of yttria by nickel cation-doping. <i>Acta Materialia</i> , 2016 , 106, 344-352	8.4	50
165	Optical Properties and Microstructure of Nanocrystalline Cubic Zirconia Prepared by High-Pressure Spark Plasma Sintering. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 2981-2986	3.8	50
164	Fabrication of high-strength transparent MgAl ₂ O ₄ spinel polycrystals by optimizing spark-plasma-sintering conditions. <i>Journal of Materials Research</i> , 2009 , 24, 2863-2872	2.5	50
163	Flash-sintering of magnesium aluminate spinel (MgAl ₂ O ₄) ceramics. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 554-562	3.8	49
162	Densification behavior of a fine-grained MgAl ₂ O ₄ spinel during spark plasma sintering (SPS). <i>Scripta Materialia</i> , 2010 , 63, 565-568	5.6	46
161	Transparent nanocrystalline bulk alumina obtained at 7.7GPa and 800°C. <i>Scripta Materialia</i> , 2013 , 69, 362-365	5.6	45
160	Low-Temperature Spark Plasma Sintering of Yttria Ceramics with Ultrafine Grain Size. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 3301-3307	3.8	45
159	Dopant effect on grain boundary diffusivity in polycrystalline alumina. <i>Acta Materialia</i> , 2005 , 53, 433-440	3.4	45
158	Diffusion of Platinum and Molybdenum in Ni and Ni ₃ Al. <i>Defect and Diffusion Forum</i> , 1997 , 143-147, 257-267	2.7	43
157	Densification of Nanocrystalline Yttria by Low Temperature Spark Plasma Sintering. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 1707-1710	3.8	42
156	Optimization of high-pressure sintering of transparent zirconia with nano-sized grains. <i>Journal of Alloys and Compounds</i> , 2010 , 508, 196-199	5.7	41
155	Isothermal Sintering Effects on Phase Separation and Grain Growth in Yttria-Stabilized Tetragonal Zirconia Polycrystal. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 467-475	3.8	41
154	Synthesis of zirconium oxynitride in air under DC electric fields. <i>Applied Physics Letters</i> , 2016 , 109, 083104	3.4	39
153	Influence of pre- and post-annealing on discoloration of MgAl ₂ O ₄ spinel fabricated by spark-plasma-sintering (SPS). <i>Journal of the European Ceramic Society</i> , 2016 , 36, 2961-2968	6	38
152	High-pressure spark plasma sintering of MgO-doped transparent alumina. <i>Journal of the Ceramic Society of Japan</i> , 2012 , 120, 116-118	1	38
151	Light scattering in MgO-doped alumina fabricated by spark plasma sintering. <i>Acta Materialia</i> , 2010 , 58, 4527-4535	8.4	37
150	High-temperature creep resistance in lanthanoid ion-doped polycrystalline Al ₂ O ₃ . <i>Philosophical Magazine Letters</i> , 1999 , 79, 249-256	1	37

149	Low temperature and high strain rate superplastic flow in structural ceramics induced by strong electric-field. <i>Scripta Materialia</i> , 2018 , 146, 173-177	5.6	37
148	Transparent polycrystalline cubic silicon nitride. <i>Scientific Reports</i> , 2017 , 7, 44755	4.9	36
147	Doping effect of divalent cations on sintering of polycrystalline yttria. <i>Journal of the European Ceramic Society</i> , 2010 , 30, 2741-2747	6	36
146	The effect of grain boundary segregation on superplastic behavior in cation-doped 3Y-TZP. <i>Scripta Materialia</i> , 2003 , 49, 791-795	5.6	36
145	Distribution of carbon contamination in oxide ceramics occurring during spark-plasma-sintering (SPS) processing: II - Effect of SPS and loading temperatures. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 2596-2604	6	35
144	Effect of loading schedule on densification of MgAl ₂ O ₄ spinel during spark plasma sintering (SPS) processing. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 2303-2309	6	35
143	Influence of Spark Plasma Sintering (SPS) Conditions on Transmission of MgAl ₂ O ₄ Spinel. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 378-385	3.8	35
142	Grain Boundary Segregation-Induced Phase Transformation in Yttria-Stabilized Tetragonal Zirconia Polycrystal. <i>Journal of the Ceramic Society of Japan</i> , 2006 , 114, 230-237		35
141	High-strain-rate superplasticity in oxide ceramics. <i>Science and Technology of Advanced Materials</i> , 2007 , 8, 578-587	7.1	34
140	Impurity effects on grain boundary strength in structural ceramics. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 319-321, 24-30	5.3	32
139	Formation of grain boundary second phase in BaTiO ₃ polycrystal under a high DC electric field at elevated temperatures. <i>Journal of the Ceramic Society of Japan</i> , 2016 , 124, 388-392	1	32
138	Phase-transformation and grain-growth kinetics in yttria-stabilized tetragonal zirconia polycrystal doped with a small amount of alumina. <i>Journal of the European Ceramic Society</i> , 2010 , 30, 1679-1690	6	31
137	Nanocrystalline, ultra-degradation-resistant zirconia: its grain boundary nanostructure and nanochemistry. <i>Scientific Reports</i> , 2014 , 4, 4758	4.9	30
136	Doping effect on sinterability of polycrystalline yttria: From the viewpoint of cation diffusivity. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 3103-3114	6	29
135	Review: microstructure-development mechanism during sintering in polycrystalline zirconia. <i>International Materials Reviews</i> , 2018 , 63, 375-406	16.1	29
134	Distribution of carbon contamination in MgAl ₂ O ₄ spinel occurring during spark-plasma-sintering (SPS) processing: I Effect of heating rate and post-annealing. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 2588-2595	6	28
133	Comparison of microstructures in superplastically deformed synthetic materials and natural mylonites: Mineral aggregation via grain boundary sliding. <i>Geology</i> , 2013 , 41, 959-962	5	27
132	Dynamic grain growth during low-temperature spark plasma sintering of alumina. <i>Scripta Materialia</i> , 2014 , 80, 29-32	5.6	26

131	Assessment of carbon contamination in MgAl ₂ O ₄ spinel during spark-plasma-sintering (SPS) processing. <i>Journal of the Ceramic Society of Japan</i> , 2015 , 123, 983-988	1	26
130	Effect of Alumina Dopant on Transparency of Tetragonal Zirconia. <i>Journal of Nanomaterials</i> , 2012 , 2012, 1-5	3.2	25
129	Transparent ultrafine Yb ³⁺ :Y ₂ O ₃ laser ceramics fabricated by spark plasma sintering. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 694-702	3.8	24
128	Superplastic flow stress and electronic structure in yttria-stabilized tetragonal zirconia polycrystals doped with GeO ₂ and TiO ₂ . <i>Acta Materialia</i> , 2004 , 52, 5563-5569	8.4	24
127	Highly Infrared Transparent Nanometric Tetragonal Zirconia Prepared by High-Pressure Spark Plasma Sintering. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 2739-2741	3.8	23
126	Anisotropy in high-temperature deformation in unidirectionally solidified eutectic Al ₂ O ₃ /YAG single crystals. <i>Scripta Materialia</i> , 2001 , 45, 957-963	5.6	22
125	Electric current-controlled synthesis of BaTiO ₃ . <i>Journal of the American Ceramic Society</i> , 2017 , 100, 3843-3850	3.8	21
124	Superplastic deformation of transparent hydroxyapatite. <i>Scripta Materialia</i> , 2013 , 69, 155-158	5.6	20
123	Enhancement of sintering rates in BaTiO ₃ by controlling of DC electric current. <i>Journal of the Ceramic Society of Japan</i> , 2015 , 123, 465-468	1	20
122	Doping amount and temperature dependence of superplastic flow in tetragonal ZrO ₂ polycrystal doped with TiO ₂ and/or GeO ₂ . <i>Acta Materialia</i> , 2009 , 57, 3029-3038	8.4	20
121	Viscous grain-boundary sliding with rotating particles or grains. <i>Acta Materialia</i> , 2009 , 57, 5730-5738	8.4	20
120	Structure and chemistry of grain boundaries in SiO ₂ -doped TZP. <i>Science and Technology of Advanced Materials</i> , 2001 , 2, 411-424	7.1	20
119	Low temperature sintering of polycrystalline yttria by transition metal ion doping. <i>Journal of the Ceramic Society of Japan</i> , 2009 , 117, 765-768	1	19
118	Consolidation of undoped, monoclinic zirconia polycrystals by flash sintering. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 3851-3857	3.8	17
117	Ionic conductivity of tetragonal ZrO ₂ polycrystal doped with TiO ₂ and GeO ₂ . <i>Journal of the European Ceramic Society</i> , 2009 , 29, 411-418	6	17
116	X-ray absorption fine-structure study on the fine structure of lutetium segregated at grain boundaries in fine-grained polycrystalline alumina. <i>Philosophical Magazine</i> , 2004 , 84, 865-876	1.6	17
115	Formation of secondary phase at grain boundary of flash-sintered BaTiO ₃ . <i>Microscopy (Oxford, England)</i> , 2014 , 63 Suppl 1, i19-i20	1.3	16
114	Intergranular amorphous films formed by DC electric field in pure zirconia. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 3282-3287	3.8	15

113	Sintering characteristics and thermoelectric properties of Mn–Al co-doped ZnO ceramics. <i>Journal of the Ceramic Society of Japan</i> , 2016 , 124, 515-522	1	15
112	Densification kinetics during isothermal sintering of 8YSZ. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 1269-1275	6	15
111	Inversion domain boundaries in Mn and Al dual-doped ZnO: Atomic structure and electronic properties. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 4252-4262	3.8	14
110	Low-Temperature Superplasticity in Nanocrystalline Tetragonal Zirconia Polycrystal (TZP). <i>Journal of the American Ceramic Society</i> , 2012 , 95, 1701-1708	3.8	14
109	Improvement of creep resistance in polycrystalline Al ₂ O ₃ by Lu-doping. <i>Solid State Sciences</i> , 1999 , 1, 229-234		14
108	High Temperature Grain Boundary Plasticity in Ceramics. <i>Materials Transactions</i> , 2009 , 50, 229-235	1.3	13
107	Small Dopant Effect on Static Grain Growth and Flow Stress in Superplastic TZP. <i>Materials Transactions</i> , 2003 , 44, 935-939	1.3	13
106	The influence of trace elements on grain boundary processes in yttria-stabilized tetragonal zirconia. <i>Materials Letters</i> , 2003 , 57, 4196-4201	3.3	13
105	Effect of Chemical Bonding State on High-temperature Plastic Flow Behavior in Fine-grained, Polycrystalline Cation-doped Al ₂ O ₃ . <i>Materials Transactions</i> , 2002 , 43, 1566-1572	1.3	13
104	Blue photo luminescence from 3 mol%Y ₂ O ₃ -doped ZrO ₂ polycrystals sintered by flash sintering under an alternating current electric field. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 2072-2076	6	13
103	Photoluminescence properties of undoped and Si ⁴⁺ -doped polycrystalline Y ₂ O ₃ phosphors prepared by flash-sintering. <i>Applied Physics Express</i> , 2019 , 12, 075504	2.4	12
102	Improvement of High-temperature Creep Resistance in Polycrystalline Al ₂ O ₃ by Cations Co-doping. <i>Materials Transactions</i> , 2004 , 45, 2078-2082	1.3	12
101	Improvement of high temperature tensile ductility in Cubic ZrO ₂ through TiO ₂ addition. <i>Scripta Materialia</i> , 2005 , 52, 365-368	5.6	12
100	Grain Boundary Sliding and Atomic Structures in Alumina Bicrystals with [0001] Symmetric Tilt Grain Boundaries. <i>Materials Transactions</i> , 2002 , 43, 1561-1565	1.3	12
99	Production of transparent yttrium oxide ceramics by the combination of low temperature spark plasma sintering and zinc cation-doping. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 1972-1980	6	11
98	Low-temperature degradation in yttria-stabilized tetragonal zirconia polycrystal doped with small amounts of alumina: Effect of grain-boundary energy. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 155-162	6	11
97	Perfect High-Temperature Plasticity Realized in Multiwalled Carbon Nanotube-Concentrated Al ₂ O ₃ Hybrid. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 1904-1908	3.8	11
96	Transient creep in fine-grained polycrystalline Al ₂ O ₃ with Lu ³⁺ ion segregation at the grain boundaries. <i>Journal of Materials Research</i> , 2001 , 16, 716-720	2.5	11

95	High temperature plastic flow and grain boundary chemistry in oxide ceramics. <i>Journal of Materials Science</i> , 2005 , 40, 3129-3135	4.3	10
94	Electric current dependence of plastic flow behavior with large tensile elongation in tetragonal zirconia polycrystal under a DC field. <i>Scripta Materialia</i> , 2021 , 194, 113659	5.6	10
93	Low-temperature spark plasma sintering of alumina by using SiC molding set. <i>Journal of the Ceramic Society of Japan</i> , 2016 , 124, 1141-1145	1	9
92	Grain-boundary sliding model of pore shrinkage in late intermediate sintering stage under hydrostatic pressure. <i>Acta Materialia</i> , 2013 , 61, 6661-6669	8.4	9
91	Densification Behavior of Ti-Doped Polycrystalline Alumina in a Nitrogen-Hydrogen Atmosphere. <i>Materials Transactions</i> , 2009 , 50, 1032-1036	1.3	9
90	The influence of lutetium-doping effect on diffusional creep in polycrystalline Al ₂ O ₃ . <i>Journal of the European Ceramic Society</i> , 2003 , 23, 1795-1801	6	9
89	Suppression of nitridation of yttria-doped zirconia during flash sintering. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 3002-3007	3.8	8
88	Spark Plasma Sintering of Highly Transparent Hydroxyapatite Ceramics. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2017 , 64, 547-551	0.2	8
87	Diffusive model of pore shrinkage in final-stage sintering under hydrostatic pressure. <i>Acta Materialia</i> , 2011 , 59, 4079-4087	8.4	8
86	Doping Dependence of High Temperature Plastic Flow Behavior in TiO ₂ and GeO ₂ -Doped Tetragonal ZrO ₂ Polycrystals. <i>Journal of the Ceramic Society of Japan</i> , 2006 , 114, 155-160		8
85	Densification Behavior and Grain Boundary Diffusivity in Cation-Doped Alumina. <i>Key Engineering Materials</i> , 2003 , 247, 67-70	0.4	8
84	Inversion domain network stabilization and spinel phase suppression in ZnO. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 2616-2626	3.8	7
83	Fabrication of Nanocrystalline Superplastic ZrO ₂ Ceramics. <i>Materials Science Forum</i> , 2007 , 551-552, 491-496	0.6	7
82	High temperature plastic deformation related to grain boundary chemistry in cation-doped alumina. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 387-389, 723-727	5.3	7
81	GeO ₂ -doping Dependence of High Temperature Superplastic Behavior in 3Y-TZP. <i>Materials Transactions</i> , 2004 , 45, 2569-2572	1.3	7
80	Spark plasma sintered bioceramics [From transparent hydroxyapatite to graphene nanocomposites: a review. <i>Advances in Applied Ceramics</i> , 2020 , 119, 57-74	2.3	7
79	Nano ZrO ₂ –TiN composites with high strength and conductivity. <i>Journal of the Ceramic Society of Japan</i> , 2015 , 123, 86-89	1	6
78	Transient Creep Associated with Grain Boundary Sliding in Fine-Grained Single-Phase Al ₂ O ₃ . <i>Journal of Materials Science</i> , 1998 , 33, 4879-4885	4.3	6

77	Vacancy effect of dopant cation on the high-temperature creep resistance in polycrystalline Al ₂ O ₃ . <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 319-321, 843-848	5.3	6
76	Fundamentals and Future Prospects of Flash Sintering of Advanced Ceramics. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2017 , 64, 523-531	0.2	5
75	Low temperature spark plasma sintering of tin oxide doped with tantalum oxide. <i>Journal of the Ceramic Society of Japan</i> , 2016 , 124, 932-937	1	5
74	Technique to control specimen electric current during a flash state with alternating current electric fields. <i>Journal of the Ceramic Society of Japan</i> , 2019 , 127, 849-851	1	5
73	Mechanism of superplastic deformed transparent hydroxyapatite. <i>Advances in Applied Ceramics</i> , 2015 , 114, 175-177	2.3	5
72	Shrinkage of Pores Located at Grain Corners by Grain-Boundary Diffusion. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 982-984	3.8	5
71	Theoretical analysis of experimental densification kinetics in final sintering stage of nano-sized zirconia. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 1359-1365	6	5
70	Densification of Ceramics by Flash Sintering~Elementary Processes of Mass Transport under Electric Fields~. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2018 , 65, 646-653	0.2	5
69	Doping effect on the flash sintering of Y ₂ O ₃ : Promotion of densification and optical translucency. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 6053-6060	6	4
68	Misfit Dislocation Formation at the c/t Interphase Boundary in Y-TZP. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 3810-3812	3.8	4
67	Densification of Y ₂ O ₃ by flash sintering under an AC electric field. <i>Journal of the European Ceramic Society</i> , 2021 ,	6	4
66	Microstructural analysis and thermoelectric properties of Sn-Al co-doped ZnO ceramics 2016 ,		4
65	Flash Sintering of Oxide Ceramics and the Future Developments. <i>Materia Japan</i> , 2018 , 57, 373-380	0.1	4
64	Evaluation of densification and grain-growth behavior during isothermal sintering of zirconia. <i>Journal of the Ceramic Society of Japan</i> , 2017 , 125, 357-363	1	3
63	Effect of Al ₂ O ₃ on High Temperature Mechanical Properties of Silicon Nitride with Yb ₄ Si ₂ O ₇ N ₂ . <i>Journal of the Ceramic Society of Japan</i> , 1997 , 105, 801-804		3
62	Estimation of Grain Boundary Diffusivity in Cation-Doped Polycrystalline Alumina. <i>Materials Science Forum</i> , 2007 , 558-559, 997-1002	0.4	3
61	Criterion for High Temperature Failure and Grain Boundary Chemistry in Superplastic TZP. <i>Materials Transactions</i> , 2004 , 45, 2106-2111	1.3	3
60	A change in the chemical bonding strength and high-temperature creep resistance in Al ₂ O ₃ with lanthanoid oxide doping. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2002 , 82, 511-525		3

59	Anelasticity induced by AC flash processing of cubic zirconia. <i>Acta Materialia</i> , 2022 , 227, 117704	8.4	3
58	Fabrication of Transparent MgAl ₂ O ₄ Spinel by Optimizing Loading Schedule during Spark-Plasma-Sintering. <i>Ceramic Transactions</i> , 2014 , 173-180	0.1	2
57	Grain Boundary Nanostructure and High Temperature Plastic Flow in Polycrystalline Oxide Ceramics. <i>Materials Science Forum</i> , 2010 , 638-642, 1731-1736	0.4	2
56	Development of High-Strain-Rate Superplastic Oxide Ceramics Based on Flow Mechanism. <i>Materials Science Forum</i> , 2012 , 735, 9-14	0.4	2
55	Superplasticity of Nanocrystalline ZrO ₂ -Spinel Composite. <i>Key Engineering Materials</i> , 2007 , 345-346, 573-576	0.4	2
54	A New Interpretation of Stress Relaxation Behavior in Si ₃ N ₄ Ceramics. <i>Key Engineering Materials</i> , 2003 , 247, 279-282	0.4	2
53	Ferroelastic and plastic behaviors in pseudo-single crystal micropillars of nontransformable tetragonal zirconia. <i>Acta Materialia</i> , 2021 , 203, 116471	8.4	2
52	Blue photoluminescence at room temperature from Y ₂ O ₃ -doped ZrO ₂ polycrystals sintered by flash sintering. <i>Applied Physics Express</i> , 2020 , 13, 035506	2.4	1
51	Fabrication of Dense Nanostructured Bulk Ceramics by Means of Spark-Plasma-Sintering (SPS) Processing. <i>Materials Science Forum</i> , 2016 , 838-839, 225-230	0.4	1
50	Spark plasma sintered superplastic deformed transparent ultrafine hydroxyapatite nanoceramics. <i>Advances in Applied Ceramics</i> , 2015 , 1-11	2.3	1
49	Fracture Toughness of a Silica-Doped Cubic Zirconia (8Y-CSZ). <i>Materials Science Forum</i> , 2010 , 638-642, 3846-3851	0.4	1
48	Analysis of Grain-Boundary Sliding with Rotating Hexagonal Particles. <i>Key Engineering Materials</i> , 2010 , 433, 305-310	0.4	1
47	High-Strain-Rate Superplastic Flow Mechanism in ZrO ₂ -30vol% Spinel Two-Phase Composite. <i>Key Engineering Materials</i> , 2010 , 433, 333-338	0.4	1
46	Densification Mechanism of MgAl ₂ O ₄ Spinel during Spark-Plasma-Sintering. <i>Advances in Science and Technology</i> , 2010 , 63, 62-67	0.1	1
45	Strengthening of ZrO ₂ Ceramics due to Nano-Crystallization. <i>Advances in Science and Technology</i> , 2006 , 45, 1674-1679	0.1	1
44	High Temperature Creep Strength of Si ₃ N ₄ -Y ₂ Si ₂ O ₇ Ceramics by Stress Relaxation Based on a New Interpretation Model. <i>Key Engineering Materials</i> , 2007 , 336-338, 1420-1423	0.4	1
43	Microstructure and Surface Segregation of 3 mol% Y ₂ O ₃ -Doped ZrO ₂ Particles. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 060612075903007-???	3.8	1
42	Dopant Effect on the High-Temperature Grain Boundary Sliding in Alumina. <i>Materials Science Forum</i> , 2004 , 447-448, 299-304	0.4	1

41	Superplastic Behavior in Small Amount of Ge-Ti Co-Doped TZP. <i>Materials Science Forum</i> , 2004 , 447-448, 365-372	0.4	1
40	Small Dopant Effect on the Superplastic Flow and Failure in 3Y-TZP. <i>Materials Science Forum</i> , 2004 , 447-448, 335-340	0.4	1
39	Effect of GeO ₂ and NdO _{1.5} Co-doping on High-temperature Ductility in TZP. <i>Materials Transactions</i> , 2004 , 45, 2564-2568	1.3	1
38	Internal Friction Behavior of Alumina Polycrystals with Engineered Grain Boundaries. <i>Materials Transactions</i> , 2002 , 43, 1557-1560	1.3	1
37	Science of Flash-sintering and Innovation to Sintering Technology. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2020 , 67, 593-600	0.2	1
36	Strong Field-induced Nanodynamics in Ceramics. <i>Materia Japan</i> , 2021 , 60, 19-24	0.1	1
35	Surface segregation of 3 mol % yttria-doped tetragonal zirconia particle studied by atomic-resolution scanning transmission electron microscopy-energy-dispersive X-ray spectroscopy. <i>Journal of the Ceramic Society of Japan</i> , 2021 , 129, 561-565	1	1
34	Grain Boundary Segregation-Induced Phase Transformation and Grain Growth in Y ₂ O ₃ -Stabilized ZrO ₂ Polycrystals. <i>Key Engineering Materials</i> , 2014 , 616, 8-13	0.4	0
33	Low-temperature degradation in yttria-stabilized tetragonal zirconia polycrystal: effect of Y ³⁺ distribution in grain interiors. <i>Acta Materialia</i> , 2022 , 117659	8.4	0
32	Possibility of Low-Temperature High-Strain-Rate Superplasticity in Fine-Grained Ceramic Materials. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2017 , 64, 515-522	0.2	
31	Improvement of Superplasticity in Fine-Grained Oxide Ceramics Based on the Concept of Grain Boundary Plasticity. <i>Materials Science Forum</i> , 2016 , 838-839, 34-40	0.4	
30	Fabrication of Transparent Polycrystalline Ceramics by Utilizing External Field Effects. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2019 , 66, 158-167	0.2	
29	Influence of Loading Condition on Fabrication of Transparent MgAl ₂ O ₄ Spinel Ceramics by Spark-Plasma-Sintering (SPS) Technique. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2014 , 61, 565-574	0.2	
28	Enhanced Densification and Grain-Size Refinement in Cation-Doped Tetragonal Zirconia. <i>Advances in Science and Technology</i> , 2010 , 62, 227-231	0.1	
27	Densification Behavior in Spark-Plasma-Sintering of MgAl ₂ O ₄ Spinel. <i>Materials Science Forum</i> , 2010 , 654-656, 1986-1989	0.4	
26	Optical Properties of Transparent MgO-Doped Alumina Fabricated by Spark Plasma Sintering. <i>Materials Science Forum</i> , 2010 , 654-656, 2041-2044	0.4	
25	Grain-Boundary Segregation and Phase-Separation Mechanism in Yttria-Stabilized Tetragonal Zirconia Polycrystal. <i>Key Engineering Materials</i> , 2011 , 484, 82-88	0.4	
24	Controlling of Grain Boundary Structure and High Temperature Matter Transport Phenomena in Polycrystalline Oxide Ceramics. <i>Materia Japan</i> , 2012 , 51, 552-560	0.1	

23	Cavitation failure during superplastic tensile loading in alumina-base ceramics. <i>Journal of Physics: Conference Series</i> , 2010 , 240, 012145	0.3
22	Superplastic Behavior in GeO ₂ - TiO ₂ Doped TZP. <i>Key Engineering Materials</i> , 2006 , 317-318, 407-410	0.4
21	High Temperature Plastic Flow and Ductility in Polycrystalline Oxide Ceramics: Doping Effect and Related Phenomena. <i>Advances in Science and Technology</i> , 2006 , 45, 1620-1625	0.1
20	Analysis of Creep Deformation Due to Grain-Boundary Diffusion/Sliding. <i>Key Engineering Materials</i> , 2007 , 345-346, 565-568	0.4
19	Grain-Boundary Structure and Phase-Transformation Mechanism in Yttria-Stabilized Tetragonal Zirconia Polycrystal. <i>Materials Science Forum</i> , 2007 , 558-559, 921-926	0.4
18	Microstructure and Concentration Distribution of Y ₂ O ₃ in 3Y-TZP Powder. <i>Materia Japan</i> , 2006 , 45, 875-875	
17	?????????????????. <i>Materia Japan</i> , 2006 , 45, 640-643	0.1
16	Grain Boundary Electronic Structure and High-Temperature Plastic Flow in Polycrystalline Al ₂ O ₃ . <i>Key Engineering Materials</i> , 2003 , 247, 263-266	0.4
15	Small Dopant Effect on Static Grain Growth and Flow Stress in Superplastic TZP. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2004 , 68, 427-431	0.4
14	?????????????????????????????????????. <i>Materia Japan</i> , 2004 , 43, 761-765	0.1
13	Effect of GeO ₂ and NdO _{1.5} Co-Doping on High-Temperature Ductility in TZP. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2005 , 69, 1084-1088	0.4
12	GeO ₂ -Doping Dependence of High Temperature Superplastic Behavior in 3Y-TZP. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2005 , 69, 831-834	0.4
11	Criterion for High Temperature Failure and Grain Boundary Chemistry in Superplastic TZP. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2005 , 69, 835-840	0.4
10	Electric Field/Current-Assisted Sintering of Optical Ceramics 2020 , 601-638	
9	Grain Boundary Analysis of Lu-doped Al ₂ O ₃ by EDS and EELS. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2001 , 65, 356-360	0.4
8	Dopant effect on high-temperature plastic flow behavior and grain boundary chemistry in oxide ceramics. <i>International Journal of Materials Research</i> , 2005 , 96, 108-116	
7	Electric Field/Current-Assisted Sintering of Optical Ceramics 2019 , 1-38	
6	Fundamentals of Sintering: Theory and Practice Various Sintering Methods. <i>Materia Japan</i> , 2019 , 58, 570-575	0.1

- 5 Fundamentals of Sintering: -Theory and Practice - II. Densification Kinetics. *Materia Japan*, **2019**, 58, 677-683
- 4 Theory and Practice -III. Densification Behavior of Multi-particle Systems. *Materia Japan*, **2019**, 58, 782-788
- 3 Fundamentals of Sintering: Theory and PracticeIV. Development of Electric Current-assisted Sintering Techniques. *Materia Japan*, **2020**, 59, 37-43 0.1
- 2 Spark Plasma Sintering (SPS) Processsing of High Strength Transparent MgAl₂O₄ Spinel Polycrystals. *Ceramic Transactions*,19-29 0.1
- 1 Revealing tetragonal-to-monoclinic phase transformation in Y-TZP at an initial stage of low temperature degradation using grazing incident-angle X-ray diffraction measurement. *Journal of the Ceramic Society of Japan*, **2018**, 126, 728-731 1