List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Superplasticity of Yttria-Stabilized Tetragonal ZrO <sub>2</sub> Polycrystals. Advanced Ceramic Materials, 1986, 1, 259-263.	2.3	563
2	A superplastic covalent crystal composite. Nature, 1990, 344, 421-423.	13.7	354
3	Three-dimensional microstructural evolution in ideal grain growth—general statistics. Acta Materialia, 2000, 48, 1297-1311.	3.8	195
4	Superplasticity of TZP/AI <sub>2</sub> O <sub>3</sub> Composite. Advanced Ceramic Materials, 1988, 3, 71-76.	2.3	190
5	Tensile Ductility of Superplastic Al2O3-Y2O3-Si3N4/SiC Composites. Journal of the American Ceramic Society, 1992, 75, 2363-2372.	1.9	112
6	Step model of solution-precipitation creep. Acta Metallurgica Et Materialia, 1994, 42, 1163-1172.	1.9	109
7	Superplasticity of Hot Isostatically Pressed Hydroxyapatite. Journal of the American Ceramic Society, 1990, 73, 457-460.	1.9	103
8	Coarsening and grain growth in sintering of two particles of different sizes. Acta Materialia, 2005, 53, 1361-1371.	3.8	92
9	Modeling and Simulation of Elementary Processes in Ideal Sintering. Journal of the American Ceramic Society, 2006, 89, 1471-1484.	1.9	82
10	Mechanics of sintering for coupled grain boundary and surface diffusion. Acta Materialia, 2011, 59, 5379-5387.	3.8	80
11	Hardening in Creep of Alumina by Zirconium Segregation at the Grain Boundary. Journal of the American Ceramic Society, 1997, 80, 2361-2366.	1.9	78
12	Methods to calculate sintering stress of porous materials in equilibrium. Acta Materialia, 2004, 52, 5621-5631.	3.8	71
13	Superplasticity of Silicon Carbide. Journal of the American Ceramic Society, 1999, 82, 2916-2918.	1.9	65
14	Recent advances in superplastic ceramics and ceramic composites. International Materials Reviews, 1991, 36, 146-161.	9.4	62
15	The role of interface-controlled diffusion creep on superplasticity of yttria-stabilized tetragonal ZrO2 polycrystals. Journal of Materials Science Letters, 1988, 7, 607-609.	O.5	61
16	Fabrication of Nanograined Silicon Carbide by Ultrahighâ€Pressure Hot Isostatic Pressing. Journal of the American Ceramic Society, 1999, 82, 771-773.	1.9	59
17	Transparent nanocrystalline bulk alumina obtained at 7.7GPa and 800°C. Scripta Materialia, 2013, 69, 362-365.	2.6	59
18	Effects of solute ion and grain size on superplasticity of ZrO2 polycrystals. Journal of Materials Science, 1991, 26, 241-247.	1.7	58

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19	Transparent polycrystalline cubic silicon nitride. Scientific Reports, 2017, 7, 44755.	1.6	57
20	Anisotropic sintering stress for sintering of particles arranged in orthotropic symmetry. Acta Materialia, 2009, 57, 3955-3964.	3.8	55
21	Superplasticity of ceramics. Ceramics International, 1991, 17, 153-163.	2.3	54
22	FAST/SPS sintering of nanocrystalline zinc oxide—Part II: Abnormal grain growth, texture and grain anisotropy. Journal of the European Ceramic Society, 2016, 36, 1221-1232.	2.8	54
23	Detection of Boron Segregation to Grain Boundaries in Silicon Carbide by Spatially Resolved Electron Energyâ€Loss Spectroscopy. Journal of the American Ceramic Society, 1999, 82, 469-472.	1.9	53
24	Strengthening and Toughening of Silicon Nitride by Superplastic Deformation. Journal of the American Ceramic Society, 1998, 81, 713-716.	1.9	51
25	Sintering through surface motion by the difference in mean curvature. Acta Materialia, 2003, 51, 4013-4024.	3.8	50
26	High Temperature Deformation of Precursor-derived Amorphous Si–B–C–N Ceramics. Journal of the European Ceramic Society, 1999, 19, 2797-2814.	2.8	48
27	Equilibrium configuration of particles in sintering under constraint. Acta Materialia, 2003, 51, 641-652.	3.8	48
28	Effect of Dispersion of ZrO <sub>2</sub> Particles on Creep of Fine-Grained Al <sub>2</sub> O <sub>3</sub> . Journal of the Ceramic Society of Japan, 1988, 96, 1206-1209.	1.3	46
29	The Piosson's ratio of engineering ceramics at elevated temperature. Journal of Materials Science Letters, 1991, 10, 282-284.	0.5	46
30	Sintering force behind the viscous sintering of two particles. Acta Materialia, 2016, 109, 292-299.	3.8	46
31	Large-size ultrahigh strength Ni-based bulk metallic glassy matrix composites with enhanced ductility fabricated by spark plasma sintering. Applied Physics Letters, 2008, 92, .	1.5	42
32	Interface topology for distinguishing stages of sintering. Scientific Reports, 2017, 7, 11106.	1.6	41
33	Ceramics superplasticity. Current Opinion in Solid State and Materials Science, 1999, 4, 461-465.	5.6	40
34	Anisotropic shrinkage induced by particle rearrangement in sintering. Acta Materialia, 2007, 55, 4553-4566.	3.8	40
35	Preparation of long-afterglow colloidal solution of Sr2MgSi2O7: Eu2+, Dy3+ by laser ablation in liquid. Applied Surface Science, 2011, 257, 2170-2175.	3.1	40
36	Microstructure and properties of ceramic particulate reinforced metallic glassy matrix composites fabricated by spark plasma sintering. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 148, 77-81.	1.7	37

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37	Multifunctional porous titanium oxide coating with apatite forming ability and photocatalytic activity on a titanium substrate formed by plasma electrolytic oxidation. Materials Science and Engineering C, 2013, 33, 4871-4875.	3.8	37
38	Anisotropic viscosities and shrinkage rates in sintering of particles arranged in a simple orthorhombic structure. Acta Materialia, 2010, 58, 1921-1929.	3.8	35
39	Diffusion Bonding of Zirconia/Alumina Composites. Journal of the American Ceramic Society, 1990, 73, 3476-3480.	1.9	34
40	Topological transformation of grains in three-dimensional normal grain growth. Journal of Materials Research, 2001, 16, 2136-2142.	1.2	34
41	Densification of Precursorâ€Derived Siâ€Câ€N Ceramics by Highâ€Pressure Hot Isostatic Pressing. Journal of the American Ceramic Society, 2002, 85, 1706-1712.	1.9	34
42	Superplastic Si3N4 ceramics consisting of rod-shaped grains. Journal of Materials Science Letters, 1995, 14, 1369-1371.	0.5	31
43	Shrinkage and disappearance of a closed pore in the sintering of particle cluster. Acta Materialia, 2006, 54, 793-805.	3.8	31
44	Coarse pore evolution in dry-pressed alumina ceramics during sintering. Advanced Powder Technology, 2016, 27, 1006-1012.	2.0	31
45	The brittle to ductile transition in a Si3N4/SiC composite with a glassy grain boundary phase. Acta Metallurgica Et Materialia, 1993, 41, 3203-3213.	1.9	30
46	Evaluation of sintering stress from 3-D visualization of microstructure: Case study of glass films sintered by viscous flow and imaged by X-ray microtomography. Acta Materialia, 2014, 66, 54-62.	3.8	30
47	Microstructural evolution of electrodes in sintering of multi-layer ceramic capacitors (MLCC) observed by synchrotron X-ray nano-CT. Acta Materialia, 2021, 206, 116605.	3.8	30
48	Geometrical Microstructural Development in Superplastic Silicon Nitride with Rod-Shaped Grains. Journal of the American Ceramic Society, 1998, 81, 3221-3227.	1.9	29
49	Synthesis of Si–C–O Bulk Ceramics with Various Chemical Compositions from Polycarbosilane. Journal of the American Ceramic Society, 1999, 82, 2337-2341.	1.9	27
50	3D multiscale-imaging of processing-induced defects formed during sintering of hierarchical powder packings. Scientific Reports, 2019, 9, 11595.	1.6	27
51	Compressive Deformation Properties and Microstructures in the Superplastic Y-TZP. Journal of the Ceramic Association Japan, 1986, 94, 721-725.	0.2	26
52	High temperature plasticity in yttria stabilised tetragonal zirconia polycrystals (Y-TZP). International Materials Reviews, 2013, 58, 399-417.	9.4	25
53	New Oxygen-Deficient Perovskite Phase, La1-xSrxCuO3-y(0.20= <x=<0.25). 1988,="" 27,="" applied="" japanese="" journal="" l55-l56.<="" of="" physics,="" td=""><td>0.8</td><td>24</td></x=<0.25).>	0.8	24
54	Cation diffusion in yttria-zirconia by molecular dynamics. Solid State Ionics, 2011, 204-205, 1-6.	1.3	24

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55	Calculation of Stress Intensity Factors for SENB Specimens by Boundary Collocation Procedure. Journal of the Ceramic Association Japan, 1985, 93, 479-480.	0.2	23
56	Improved creep resistance of Si3N4/SiC nanocomposites fabricated from amorphous Si-C-N precursor powder. Journal of Materials Science Letters, 1996, 15, 505-507.	0.5	23
57	Effects of Atmospheric Composition on the Molecular Structure of Synthesized Silicon Oxycarbides. Journal of the American Ceramic Society, 2015, 98, 3373-3380.	1.9	23
58	Large increase in fracture resistance of stishovite with crack extension less than one micrometer. Scientific Reports, 2015, 5, 10993.	1.6	23
59	Fracture-induced amorphization of polycrystalline SiO2 stishovite: a potential platform for toughening in ceramics. Scientific Reports, 2014, 4, 6558.	1.6	23
60	Morphology of subsurface cracks in glass-ceramics induced by Vickers indentation observed by synchrotron X-ray multiscale tomography. Scientific Reports, 2022, 12, 6994.	1.6	23
61	Ceramics superplasticity: Deformation mechanisms and microstructures. Materials Characterization, 1996, 37, 331-341.	1.9	22
62	Effect of grain boundary sliding on shear viscosity and viscous Poisson's ratio in macroscopic shrinkage during sintering. Acta Materialia, 2011, 59, 774-784.	3.8	22
63	Microstructural Evolution and Anisotropic Shrinkage in Constrained Sintering and Sinter Forging. Journal of the American Ceramic Society, 2012, 95, 2389-2397.	1.9	22
64	Determination of the size of representative volume element for viscous sintering. Journal of the Ceramic Society of Japan, 2016, 124, 421-425.	0.5	22
65	Mechanical strength of hot-pressed Bi–Pb–Sr–Ca–Cu–O superconductor. Journal of Materials Research, 1992, 7, 34-37.	1.2	22
66	Topological transformation of grains in superplasticity-like deformation. Acta Materialia, 2002, 50, 1177-1186.	3.8	21
67	Dynamic Evolution of Grainâ€Boundary Films in Liquidâ€Phase‣intered Ultrafine Silicon Carbide Material. Journal of the American Ceramic Society, 2003, 86, 1753-1760.	1.9	21
68	Fabrication of zirconia-alumina functionally gradient material by superplastic diffusion bonding. Journal of Materials Science, 1993, 28, 5793-5799.	1.7	20
69	R-Curve Behavior and Stable Crack Growth at Elevated Temperature (1500o-1650oC) in a Si3N4/SiC Nanocomposite. Journal of the American Ceramic Society, 1994, 77, 3237-3243.	1.9	20
70	High temperature deformation of silicon nitride ceramics with different microstructures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1996, 206, 45-48.	2.6	20
71	Deformation of Monoclinic ZrO <sub>2</sub> Polycrystals and Y <sub>2</sub> O <sub>3</sub> â€Stabilized Tetragonal ZrO <sub>2</sub> Polycrystals below the Monoclinic–Tetragonal Transition Temperature. Journal of the American Ceramic Society, 2002, 85, 2834-2836	1.9	20
72	Computation of sintering stress and bulk viscosity from microtomographic images in viscous sintering of glass particles. Journal of the American Ceramic Society, 2017, 100, 867-875.	1.9	20

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73	Compressive Deformation of Y <sub>2</sub> O <sub>3</sub> -Stabilized ZrO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> Composite. Journal of the Ceramic Association Japan, 1986, 94, 1017-1020.	0.2	19
74	Deformation of Alumina/Titanium Carbide Composite at Elevated Temperatures. Journal of the American Ceramic Society, 1991, 74, 2258-2262.	1.9	19
75	Thermal barrier coating made of porous zirconium oxide on a nickel-based single crystal superalloy formed by plasma electrolytic oxidation. Surface and Coatings Technology, 2013, 223, 47-51.	2.2	19
76	Sintering forces acting among particles during sintering by grainâ€boundary/surface diffusion. Journal of the American Ceramic Society, 2019, 102, 538-547.	1.9	19
77	Toughening enhanced at elevated temperatures in an alumina/zirconia dual-phase matrix composite reinforced with silicon carbide whiskers. Journal of the European Ceramic Society, 2013, 33, 3157-3163.	2.8	18
78	Picosecond amorphization of SiO <sub>2</sub> stishovite under tension. Science Advances, 2017, 3, e1602339.	4.7	17
79	Effect of Amount of Boron Doping on Compression Deformation of Fineâ€Grained Silicon Carbide at Elevated Temperature. Journal of the American Ceramic Society, 2004, 87, 1525-1529.	1.9	16
80	Tensorâ€Virial Equation for Deformation of a Particle in Viscous Sintering. Journal of the American Ceramic Society, 2012, 95, 2785-2787.	1.9	16
81	Mechanics of viscous sintering on the micro- and macro-scale. Acta Materialia, 2013, 61, 239-247.	3.8	16
82	Superplasticityâ€like Deformation of Nanocrystalline Monoclinic Zirconia at Elevated Temperatures. Journal of the American Ceramic Society, 2004, 87, 1122-1125.	1.9	15
83	Influence of binder layer of spray-dried granules on occurrence and evolution of coarse defects in alumina ceramics during sintering. Journal of the European Ceramic Society, 2018, 38, 1846-1852.	2.8	15
84	Tensile Ductility of Liquid-Phase Sintered β-Silicon Carbide at Elevated Temperature. Materials Science Forum, 1999, 304-306, 507-512.	0.3	14
85	Sintering force behind shape evolution by viscous flow. Journal of the European Ceramic Society, 2015, 35, 1119-1122.	2.8	14
86	Evaluation of Crack Propagation in Hydroxyapatite by Double-Torsion Method in Air, Water and Toluene. Journal of the Ceramic Society of Japan, 1995, 103, 648-652.	1.3	13
87	High temperature plastic anisotropy of Y2O3 partiallystabilized ZrO2 single crystals. Journal of the European Ceramic Society, 2002, 22, 2609-2613.	2.8	13
88	Microstructure and superconducting properties of hot-pressed Bi–Pb–Sr–Ca–Cu–O thick film. Journal of Materials Research, 1991, 6, 1425-1432.	1.2	12
89	Molecular Dynamics Simulation of the Model Grain Boundary Structure of Polycrystalline Materials. Molecular Simulation, 1996, 18, 179-192.	0.9	12
90	High temperature plastic deformation of a tetragonal Y2O3-stabilized ZrO2 single crystals. Scripta Materialia, 2001, 44, 2551-2555.	2.6	12

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91	Sintering forces in equilibrium and non-equilibrium states during sintering of two particles. Science and Technology of Advanced Materials, 2004, 5, 521-525.	2.8	12
92	Compression Deformation Mechanism of Silicon Carbide: I, Fineâ€Grained Boron―and Carbonâ€Doped βâ€5ilicon Carbide Fabricated by Hot Isostatic Pressing. Journal of the American Ceramic Society, 2004, 87, 1919-1926.	1.9	12
93	High-temperature deformation of α-SiAlON nanoceramics without additives. Scripta Materialia, 2007, 56, 871-874.	2.6	12
94	Integrated molding of nanocrystalline tungsten carbide powder with stainless steel. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 148, 145-148.	1.7	12
95	Direct observation of sintering mechanics of a single grain boundary. Acta Materialia, 2012, 60, 507-516.	3.8	12
96	Viscous Poisson's ratio, bulk and shear viscosity during electrical field assisted sintering of polycrystalline ceria. Scripta Materialia, 2020, 178, 240-243.	2.6	12
97	63Cu and 65Cu NMR in a Single Crystal of K2CuF4. Journal of the Physical Society of Japan, 1981, 50, 1109-1118.	0.7	11
98	Intragranular crack deflection and crystallographic slip in Si3N4/SiC nano-composites. Journal of the European Ceramic Society, 1993, 11, 431-438.	2.8	11
99	Superplastic forging of silicon nitride ceramics with anisotropic microstructure control. Journal of Materials Science Letters, 1997, 17, 45-47.	0.5	11
100	A Microscopic Model of Interfaceâ€Reactionâ€Controlled Sintering of Spherical Particles of Different Phases. Journal of the American Ceramic Society, 2009, 92, 1663-1671.	1.9	11
101	Optical Properties of Afterglow Nanoparticles : , Capped with Polyethylene Glycol. Advances in Optical Technologies, 2012, 2012, 1-6.	0.8	11
102	High-strain-rate superplasticity in nanocrystalline silicon nitride ceramics under compression. Scripta Materialia, 2015, 103, 22-25.	2.6	11
103	Diffusion bonding of ceramics: mullite, ZrO2-toughened mullite. Journal of Materials Science, 1991, 26, 4985-4990.	1.7	10
104	High-temperature compressive deformation of β-SiAlON polycrystals containing minimum amount of intergranular glass phase. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 148, 203-206.	1.7	10
105	Representative indentation elastic modulus evaluated by unloading of nanoindentation made with a point sharp indenter. Mechanics of Materials, 2015, 83, 66-71.	1.7	10
106	Surface tension-pressure superposition principle for anisotropic shrinkage of an ellipsoidal pore in viscous sintering. Journal of the European Ceramic Society, 2018, 38, 4283-4289.	2.8	10
107	Joining of Hot-Pressed Bi-Pb-Sr-Ca-Cu-O Superconductor. Japanese Journal of Applied Physics, 1989, 28, L1740-L1741.	0.8	9
108	Superplasticity of mullite-zirconia composite. Journal of Materials Science, 1992, 27, 3575-3580.	1.7	9

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109	Fabrication of polycarbosilane-derived SiC bulk ceramics by carbothermic reduction. Scripta Materialia, 1999, 12, 175-178.	0.5	9
110	Molecular Dynamics Simulation of the Grain Growth in Nano-Grained Metallic Polycrystals. Materials Transactions, 2001, 42, 2266-2269.	0.4	9
111	Effect of chemical composition of intergranular glass on superplastic compressive deformation of β-silicon nitride. Journal of the European Ceramic Society, 2006, 26, 1069-1074.	2.8	9
112	Pore channel closure in sintering of a ring of three spheres. Journal of the European Ceramic Society, 2007, 27, 3365-3370.	2.8	9
113	Enhancement of high-temperature deformation in fine-grained silicon carbide with Al doping. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 148, 261-264.	1.7	9
114	Superplasticity of Ceramics. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 1989, 75, 389-395.	0.1	9
115	Particle size, shape and orientation distributions: Aeneral spheroid problem and application to deformed Si3N4microstructures. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1996, 74, 215-228.	0.7	8
116	Evaluation of effects of crack deflection and grain bridging on toughening of nanocrystalline SiO2 stishovite. Journal of the European Ceramic Society, 2017, 37, 5113-5117.	2.8	8
117	A model of crack healing of glass by viscous flow at elevated temperatures. Journal of the American Ceramic Society, 2019, 102, 1373-1378.	1.9	8
118	Two step dependence of critical temperature on oxygen content for the Bi-Pb-Sr-Ca-Cu-O superconductor. Physica C: Superconductivity and Its Applications, 1991, 181, 331-334.	0.6	7
119	Intergranular pinning potential and transport current path in Biî—,Pbî—,Srî—,Caî—,Cuî—,O polycrystal superconductor. Physica C: Superconductivity and Its Applications, 1991, 185-189, 2213-2214.	0.6	7
120	Title is missing!. Journal of Materials Synthesis and Processing, 1998, 6, 393-399.	0.3	7
121	Effect of Oxygen Segregation at Grain Boundaries on Deformation of B, C-Doped Silicon Carbides at Elevated Temperatures. Journal of the American Ceramic Society, 2005, 88, 1558-1563.	1.9	7
122	Influence of Particle Arrangement on Coarsening during Sintering of Three Spherical Particles. Journal of the Ceramic Society of Japan, 2006, 114, 974-978.	1.3	7
123	Three-dimensional computer study of rearrangement during liquid phase sintering. Mathematical and Computer Modelling, 2012, 55, 1251-1262.	2.0	7
124	Tensor virial equation of evolving surfaces in sintering of aggregates of particles by diffusion. Acta Materialia, 2013, 61, 4103-4112.	3.8	7
125	Strength and toughness of nanocrystalline SiO2 stishovite toughened by fracture-induced amorphization. Acta Materialia, 2017, 124, 316-324.	3.8	7
126	Effect of the Elastic Deformation of a Point-Sharp Indenter on Nanoindentation Behavior. Materials, 2017, 10, 270.	1.3	7

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127	Comparison between sinter forging and X-ray microtomography methods for determining sintering stress and bulk viscosity. Journal of the European Ceramic Society, 2018, 38, 2053-2058.	2.8	7
128	Sintering mechanics of ceramics: a short review. Materials Today: Proceedings, 2019, 16, 4-13.	0.9	7
129	Modelling of elimination of strength-limiting defects by pressure-assisted sintering at low stress levels. Journal of the European Ceramic Society, 2021, 41, 202-210.	2.8	7
130	Influence of magnetic field on transport current path in Biî—,Pbî—,Srî—,Caî—,Cuî—,O granular superconductor. Physica C: Superconductivity and Its Applications, 1991, 174, 335-339.	0.6	6
131	Deformation Conditions of $\hat{l}^2$ -SiAlON to Achieve Large Superplastic Elongation. Journal of the Ceramic Society of Japan, 1998, 106, 1040-1042.	1.3	6
132	Dynamics of Grain Boundary Network in Ceramics Superplasticity. Journal of the Ceramic Society of Japan, 2004, 112, 472-476.	1.3	6
133	Development of Creep-Resistant Tungsten Carbide Copper Cemented Carbide. Materials Transactions, 2009, 50, 1250-1254.	0.4	6
134	Thermalâ€ <b>6</b> hock Fracture and Damage Resistance Improved by Whisker Reinforcement in Alumina Matrix Composite. International Journal of Applied Ceramic Technology, 2016, 13, 653-661.	1.1	6
135	Representative indentation yield stress evaluated by behavior of nanoindentations made with a point sharp indenter. Mechanics of Materials, 2016, 92, 1-7.	1.7	6
136	Thermal expansion and P-V-T equation of state of cubic silicon nitride. Journal of the European Ceramic Society, 2019, 39, 3627-3633.	2.8	6
137	Micromechanics of formation and shrinkage of a closed pore in sintering by coupled grain boundary/surface diffusion. Journal of the European Ceramic Society, 2019, 39, 2952-2959.	2.8	6
138	Anisotropic microstructural evolution and coarsening in free sintering and constrained sintering of metal film by using FIB-SEM tomography. Acta Materialia, 2021, 215, 117087.	3.8	6
139	Superplasticity of Non-Oxide Ceramics. Materials Research Society Symposia Proceedings, 1990, 196, 349.	0.1	5
140	High Temperature Deformation of Ceramics Simulated by Molecular Dynamics. Materials Science Forum, 1997, 243-245, 351-356.	0.3	5
141	Change in stress, stress sensitivity and activation energy during superplastic deformation of silicon nitride. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 268, 141-146.	2.6	5
142	Statistics of grain disappearance in three-dimensional normal grain growth. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2001, 81, 517-524.	0.6	5
143	Evolution of Microstructure and Intergranular Glass Chemistry in Plastically Deformed Nanocrystalline Si <sub>3</sub> N <sub>4</sub> Ceramics. Journal of the American Ceramic Society, 2015, 98, 178-185.	1.9	5
144	Domain coarsening in viscous sintering as a result of topological pore evolution. Journal of the European Ceramic Society, 2022, 42, 729-733.	2.8	5

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145	The relation between internal friction and tensile creep deformation on alumina ceramics. Journal of Alloys and Compounds, 1994, 211-212, 361-364.	2.8	4
146	High Temperature Deformation of Precursor Derived Si-C-N Ceramics. Materials Science Forum, 1999, 304-306, 501-506.	0.3	4
147	Effect of internal stress disturbance on the stress-induced transformation toughening of an alumina/zirconia dual-phase composite. Philosophical Magazine, 2004, 84, 3741-3754.	0.7	4
148	Low temperature heat capacity measurements of β-Si3N4 and γ-Si3N4: Determination of the equilibrium phase boundary between β-Si3N4 and γ-Si3N4. Journal of the European Ceramic Society, 2020, 40, 6309-6315.	2.8	4
149	Thermal instability of Bi-Pb-Sr-Ca-Cu-O superconductor around 650?C. Journal of Materials Science, 1992, 27, 3642-3644.	1.7	3
150	Amorphous Grain Boundary in Superplastic Ceramics. Materials Science Forum, 1997, 243-245, 337-344.	0.3	3
151	Indentation cracks in superplastically deformed silicon nitride consisting of strongly aligned rod-shaped grains. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1998, 244, 161-167.	2.6	3
152	EVALUATION METHODS FOR PROPERTIES OF NANOSTRUCTURED BODY. , 2008, , 317-383.		3
153	Effect of <scp>CaO</scp> Addition on Compressive Deformation of <scp>S</scp> ilicon <scp>N</scp> itride Ceramic with <scp>Y</scp> â€ <scp>Mg</scp> á€ <scp>a€<scp>Si</scp>á€<scp>Si</scp>â€<scp>C</scp>â€<scp>C</scp>â€<scp>Complete Ceramic Technology, 2013, 10, 756-763.</scp></scp>	→ <sup>1,1</sup> > <scp>N&lt;</scp>	/sc͡p>
154	Superplastic Diffusion Bonding in Ceramics. Journal of the Ceramic Society of Japan, 1992, 100, 1279-1284.	1.3	2
155	Diffusion bonding of Al2O3/TiC composite. Journal of Materials Science Letters, 1994, 13, 1375-1376.	0.5	2
156	Crack formation and oxidation in superplastically deformed Si3N4. Journal of Materials Science, 1996, 31, 5499-5504.	1.7	2
157	Deformation Behavior of SiO <sub>2</sub> Doped Nanocrystalline Monoclinic Zirconia at Low Temperatures. Key Engineering Materials, 2006, 317-318, 433-436.	0.4	2
158	Comment on "Local vs. global approach in the analysis of sintering kinetics― Scripta Materialia, 2010, 62, 117-119.	2.6	2
159	Determination of sintering stress and bulk viscosity from sinter-forging and X-ray microtomography methods: a Review. Materials Today: Proceedings, 2019, 16, 42-48.	0.9	2
160	Rigid body motion of multiple particles in solid-state sintering. Acta Materialia, 2022, 235, 118092.	3.8	2
161	R-curve measurement of silicon nitride ceramics using single-edge notched beam specimens. Journal of Materials Science, 1994, 29, 5183-5187.	1.7	1
162	Microstructures and Mechanical Properties of Anisotropic Silicon Nitride Produced by Superplastic Deformation. Key Engineering Materials, 1999, 161-163, 555-558.	0.4	1

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163	Movement of Nanocrystalline Grains in Superplasticity. Key Engineering Materials, 1999, 166, 153-156.	0.4	1
164	A Molecular Dynamics Study of Large Deformation of Nanocrystalline Materials. Materials Science Forum, 2001, 357-359, 571-576.	0.3	1
165	Compressive Deformation of Partially Crystallized Amorphous Si-B-C-N Ceramics at Elevated Temperatures. Materials Transactions, 2003, 44, 226-231.	0.4	1
166	Compressive Deformation of Precursor-Derived Si-C-N Ceramics at Elevated Temperatures. Materials Transactions, 2003, 44, 794-797.	0.4	1
167	Dynamics of Grain Boundary Networks in Superplasticity. Materials Science Forum, 2004, 447-448, 49-54.	0.3	1
168	Indentation Size Effect on the Hardness of Zirconia Polycrystals. , 2005, , 13-20.		1
169	å¤çµæ™¶ä½"ã®ç²'界ãfãffãf^ãf~ãf¼ã, ãf€ã,¤fŠãfŸã, ã,1 è¶å¦'性ãf»ç²'æ^é•∙ãf»ç,,¼çµ• Materia Japan, 2	2006,145,6	544-647.
170	Effect of Chemical Composition of Intergranular Glass on Superplastic Deformation of β-Silicon Nitride. Key Engineering Materials, 2006, 317-318, 399-402.	0.4	1
171	Bulk Consolidation of Non-Oxide Ceramic Powders Derived from Polymer Precursors. Key Engineering Materials, 2006, 317-318, 15-18.	0.4	1
172	Superplastic Deformation of Silicon Nitride Nanocomposite at High Strain Rates. Key Engineering Materials, 2006, 317-318, 403-406.	0.4	1
173	Interplay between Surface and Grain Boundary in Sintering. Materials Science Forum, 2007, 558-559, 1029-1034.	0.3	1
174	Superplastic Flow of Silicon Nitride-Based Nanocomposite at High Strain Rates. Materials Science Forum, 2007, 551-552, 597-600.	0.3	1
175	Three-Dimensional Simulation of Coarsening and Grain Growth in Sintering. Materials Science Forum, 2007, 539-543, 2359-2364.	0.3	1
176	New processing method for tungsten carbide nano-crystalline particles and nano structural carbon via polyacrylonitrile gasification. Journal of the Ceramic Society of Japan, 2014, 122, 570-573.	0.5	1
177	Mechanics of shape evolution of particle aggregates in viscous sintering. Journal of the European Ceramic Society, 2021, 41, 797-810.	2.8	1
178	Numerical analysis of point-sharp indentation-load relaxation simulated using the finite-element method to characterize the power-law creep deformation of a visco-elastoplastic solid. International Journal of Solids and Structures, 2022, 238, 111417.	1.3	1
179	Anisotropy and anomalous temperature dependence of Josephson lower critical field in grain-oriented Bi-Pb-Sr-Ca-Cu-O superconductor. Physica C: Superconductivity and Its Applications, 1991, 177, 135-137.	0.6	0
180	Superplasticity in Si <sub>3</sub> N <sub>4</sub> Associated with Rod-like Grain Alignment. Materials Science Forum, 1997, 243-245, 115-124.	0.3	0

#	Article	IF	CITATIONS
181	High Temperature Compressive Deformation Behavior of Superplastic B, C-SiC. Materials Science Forum, 1999, 304-306, 495-500.	0.3	0
182	Ceramics Superplasticity. Materials Research Society Symposia Proceedings, 1999, 601, 163.	0.1	0
183	Ultrahigh-temperature deformation of high-purity HIPed Si3N4. Journal of Materials Science, 2001, 36, 1459-1467.	1.7	0
184	Effects of Temperature and Chemical Composition of Intergranular Glass on Dihedral Angle of Glass-Doped 3Y-TZP. Journal of the Ceramic Society of Japan, 2004, 112, 661-664.	1.3	0
185	Grain Boundary Dynamics in Ceramics Superplasticity. , 2006, , 297-314.		0
186	High-Temperature Deformation of Si-C-N Monoliths Containing Residual Amorphous Phase Derived from Polyvinylsilazane. Journal of the Ceramic Society of Japan, 2006, 114, 575-579.	1.3	0
187	Dedicated to Professor Günter Petzow on the Occasion of his 80th Birthday. Journal of the Ceramic Society of Japan, 2006, 114, P1-P2.	1.3	0
188	Evaluation of Thermal Stability of Porous Material by Sintering Stress. Key Engineering Materials, 2006, 317-318, 683-688.	0.4	0
189	High-Temperature Compressive Deformation of SiAlON Polycrystals Prepared without Additives. Key Engineering Materials, 2008, 403, 117-120.	0.4	Ο
190	Plasticity of Fe-Oxypnictides Superconductor. Journal of the Physical Society of Japan, 2008, 77, 125-126.	0.7	0
191	Low temperature bonding using sub-micron Au particles for wafer-level MEMS packaging. , 2012, , .		Ο
192	Development of Superplastic Ceramics. , 2013, , 765-771.		0
193	Hafnia-silicon carbide nanocomposites II: Measurements of the residual stress. Journal of the European Ceramic Society, 2016, 36, 937-942.	2.8	Ο
194	Evaluation of Macroscopic Mechanical Properties from 3-D Visualization of Microstructure in Sintering. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2017, 64, 495-500.	0.1	0
195	Transformation Toughening by Fracture-Induced Amorphization in Nanopolycrystalline Stishovite. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2018, 28, 170-176.	0.1	Ο
196	Effect of the friction between a point-sharp indenter and an indented elastoplastic solid on the load and depth sensing indentation. Materials Today: Proceedings, 2019, 16, 119-123.	0.9	0
197	Millennial Special Leading Papers on Ceramics in the 20 <sup>th</sup> Century: the Best of JCerSJ Compressive Deformation Properties and Microstructure in the Superplastic Y-TZP. Journal of the Ceramic Society of Japan, 2000, 108, S101-S106.	1.3	0
198	Nano-scale Joining and Cutting Technologies Development of Nanocrystalline Ceramics: Application to Superplastic Diffusion Bonding. Yosetsu Gakkai Shi/Journal of the Japan Welding Society, 2006, 75, 171-174.	0.0	0

#	Article	IF	CITATIONS
199	Quasi-equilibrium sintering of particle clusters containing Bernal holes. International Journal of Materials Research, 2006, 97, 670-675.	0.1	0
200	Micro-Mechanical Principle of Sintering in Particle-Scale. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2009, 56, 611-618.	0.1	0
201	Preparation of the High Density and Fine-Grained YBa2Cu3O7-y by Capsule Hip Method. , 1992, , 393-398.		0
202	Superplasticity. Journal of the Society of Mechanical Engineers, 1992, 95, 864-865.	0.0	0
203	Solution-Precipitation Creep Model for Superplastic Ceramics with Intergranular Liquid Film. , 1995, , 269-277.		0
204	Tensile and Compressive Deformation of the Fine-Grained YBa2Cu3O6+x Ceramics. , 1995, , 657-660.		0
205	Clarification of the Relationship between the Microscopic Powder Packing and the Macroscopic Shrinkage during Sintering by using 3D Tomography. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2016, 24, 144-147.	0.0	0
206	Microstructure Design for Oxide/Non-oxide Ceramics for Structural Applications. , 2019, , 135-144.		0
207	Evaluation of Macroscopic Mechanical Properties from 3-D Visualization of Microstructure in Sintering. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2019, 66, 604-610.	0.1	0