

Fumihiro Wakai

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205
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4,161
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h-index

57
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210
ext. papers

4,443
ext. citations

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avg, IF

5.35
L-index

#	Paper	IF	Citations
205	Superplasticity of Yttria-Stabilized Tetragonal ZrO ₂ Polycrystals. <i>Advanced Ceramic Materials</i> , 1986 , 1, 259-263		512
204	A superplastic covalent crystal composite. <i>Nature</i> , 1990 , 344, 421-423	50.4	300
203	Superplasticity of TZP/Al ₂ O ₃ Composite. <i>Advanced Ceramic Materials</i> , 1988 , 3, 71-76		179
202	Three-dimensional microstructural evolution in ideal grain growth general statistics. <i>Acta Materialia</i> , 2000 , 48, 1297-1311	8.4	162
201	Step model of solution-precipitation creep. <i>Acta Metallurgica Et Materialia</i> , 1994 , 42, 1163-1172		101
200	Tensile Ductility of Superplastic Al ₂ O ₃ /ZrO ₂ /SiC Composites. <i>Journal of the American Ceramic Society</i> , 1992 , 75, 2363-2372	3.8	99
199	Superplasticity of Hot Isostatically Pressed Hydroxyapatite. <i>Journal of the American Ceramic Society</i> , 1990 , 73, 457-460	3.8	85
198	Coarsening and grain growth in sintering of two particles of different sizes. <i>Acta Materialia</i> , 2005 , 53, 1361-1371	8.4	74
197	Hardening in Creep of Alumina by Zirconium Segregation at the Grain Boundary. <i>Journal of the American Ceramic Society</i> , 2005 , 80, 2361-2366	3.8	71
196	Modeling and Simulation of Elementary Processes in Ideal Sintering. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 1471-1484	3.8	66
195	Mechanics of sintering for coupled grain boundary and surface diffusion. <i>Acta Materialia</i> , 2011 , 59, 5379-5387	8.4	59
194	Methods to calculate sintering stress of porous materials in equilibrium. <i>Acta Materialia</i> , 2004 , 52, 5621-5631	8.4	59
193	The role of interface-controlled diffusion creep on superplasticity of yttria-stabilized tetragonal ZrO ₂ polycrystals. <i>Journal of Materials Science Letters</i> , 1988 , 7, 607-609		59
192	Superplasticity of Silicon Carbide. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 2916-2918	3.8	56
191	Anisotropic sintering stress for sintering of particles arranged in orthotropic symmetry. <i>Acta Materialia</i> , 2009 , 57, 3955-3964	8.4	51
190	Fabrication of Nanograined Silicon Carbide by Ultrahigh-Pressure Hot Isostatic Pressing. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 771-773	3.8	49
189	Detection of Boron Segregation to Grain Boundaries in Silicon Carbide by Spatially Resolved Electron Energy-Loss Spectroscopy. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 469-472	3.8	49

188	Recent advances in superplastic ceramics and ceramic composites. <i>International Materials Reviews</i> , 1991 , 36, 146-161	16.1	49
187	Effects of solute ion and grain size on superplasticity of ZrO ₂ polycrystals. <i>Journal of Materials Science</i> , 1991 , 26, 241-247	4.3	49
186	Transparent nanocrystalline bulk alumina obtained at 7.7GPa and 800°C. <i>Scripta Materialia</i> , 2013 , 69, 362-365	5.6	45
185	Superplasticity of ceramics. <i>Ceramics International</i> , 1991 , 17, 153-163	5.1	45
184	Effect of Dispersion of ZrO ₂ Particles on Creep of Fine-Grained Al ₂ O ₃ . <i>Journal of the Ceramic Society of Japan</i> , 1988 , 96, 1206-1209		45
183	Strengthening and Toughening of Silicon Nitride by Superplastic Deformation. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 713-716	3.8	44
182	High Temperature Deformation of Precursor-derived Amorphous Si ₃ N ₄ Ceramics. <i>Journal of the European Ceramic Society</i> , 1999 , 19, 2797-2814	6	44
181	Equilibrium configuration of particles in sintering under constraint. <i>Acta Materialia</i> , 2003 , 51, 641-652	8.4	43
180	Sintering through surface motion by the difference in mean curvature. <i>Acta Materialia</i> , 2003 , 51, 4013-4024	8.4	41
179	FAST/SPS sintering of nanocrystalline zinc oxide Part II: Abnormal grain growth, texture and grain anisotropy. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 1221-1232	6	40
178	Large-size ultrahigh strength Ni-based bulk metallic glassy matrix composites with enhanced ductility fabricated by spark plasma sintering. <i>Applied Physics Letters</i> , 2008 , 92, 121907	3.4	40
177	Preparation of long-afterglow colloidal solution of Sr ₂ MgSi ₂ O ₇ : Eu ²⁺ , Dy ³⁺ by laser ablation in liquid. <i>Applied Surface Science</i> , 2011 , 257, 2170-2175	6.7	37
176	The Piosson's ratio of engineering ceramics at elevated temperature. <i>Journal of Materials Science Letters</i> , 1991 , 10, 282-284		37
175	Transparent polycrystalline cubic silicon nitride. <i>Scientific Reports</i> , 2017 , 7, 44755	4.9	36
174	Ceramics superplasticity. <i>Current Opinion in Solid State and Materials Science</i> , 1999 , 4, 461-465	12	35
173	Microstructure and properties of ceramic particulate reinforced metallic glassy matrix composites fabricated by spark plasma sintering. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008 , 148, 77-81	3.1	34
172	Sintering force behind the viscous sintering of two particles. <i>Acta Materialia</i> , 2016 , 109, 292-299	8.4	32
171	Multifunctional porous titanium oxide coating with apatite forming ability and photocatalytic activity on a titanium substrate formed by plasma electrolytic oxidation. <i>Materials Science and Engineering C</i> , 2013 , 33, 4871-5	8.3	32

- 170 Anisotropic shrinkage induced by particle rearrangement in sintering. *Acta Materialia*, **2007**, 55, 4553-4566 32
- 169 Densification of Precursor-Derived Si-C-N Ceramics by High-Pressure Hot Isostatic Pressing. *Journal of the American Ceramic Society*, **2004**, 85, 1706-1712 3.8 32
- 168 Anisotropic viscosities and shrinkage rates in sintering of particles arranged in a simple orthorhombic structure. *Acta Materialia*, **2010**, 58, 1921-1929 8.4 30
- 167 Topological transformation of grains in three-dimensional normal grain growth. *Journal of Materials Research*, **2001**, 16, 2136-2142 2.5 29
- 166 Interface topology for distinguishing stages of sintering. *Scientific Reports*, **2017**, 7, 11106 4.9 28
- 165 The brittle to ductile transition in a Si₃N₄/SiC composite with a glassy grain boundary phase. *Acta Metallurgica Et Materialia*, **1993**, 41, 3203-3213 28
- 164 Shrinkage and disappearance of a closed pore in the sintering of particle cluster. *Acta Materialia*, **2006**, 54, 793-805 8.4 27
- 163 Superplastic Si₃N₄ ceramics consisting of rod-shaped grains. *Journal of Materials Science Letters*, **1995**, 14, 1369-1371 27
- 162 Geometrical Microstructural Development in Superplastic Silicon Nitride with Rod-Shaped Grains. *Journal of the American Ceramic Society*, **1998**, 81, 3221-3227 3.8 26
- 161 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 8.4 25
- 160 Synthesis of SiC Bulk Ceramics with Various Chemical Compositions from Polycarbosilane. *Journal of the American Ceramic Society*, **1999**, 82, 2337-2341 3.8 24
- 159 Diffusion Bonding of Zirconia/Alumina Composites. *Journal of the American Ceramic Society*, **1990**, 73, 3476-3480 3.8 24
- 158 Compressive Deformation Properties and Microstructures in the Superplastic Y-TZP. *Journal of the Ceramic Association Japan*, **1986**, 94, 721-725 24
- 157 Coarse pore evolution in dry-pressed alumina ceramics during sintering. *Advanced Powder Technology*, **2016**, 27, 1006-1012 4.6 23
- 156 Cation diffusion in yttria-zirconia by molecular dynamics. *Solid State Ionics*, **2011**, 204-205, 1-6 3.3 23
- 155 High temperature plasticity in yttria stabilised tetragonal zirconia polycrystals (Y-TZP). *International Materials Reviews*, **2013**, 58, 399-417 16.1 22
- 154 Effect of grain boundary sliding on shear viscosity and viscous Poisson's ratio in macroscopic shrinkage during sintering. *Acta Materialia*, **2011**, 59, 774-784 8.4 20
- 153 Topological transformation of grains in superplasticity-like deformation. *Acta Materialia*, **2002**, 50, 1177-1186 8.1 20

152	New Oxygen-Deficient Perovskite Phase, $\text{La}_{1-x}\text{Sr}_x\text{CuO}_{3-y}$ ($0.20 \leq y < 0.25$). <i>Japanese Journal of Applied Physics</i> , 1988 , 27, L55-L56	1.4	20
151	Mechanical strength of hot-pressed BiPbSrCaCuO superconductor. <i>Journal of Materials Research</i> , 1992 , 7, 34-37	2.5	20
150	Large increase in fracture resistance of stishovite with crack extension less than one micrometer. <i>Scientific Reports</i> , 2015 , 5, 10993	4.9	19
149	Effects of Atmospheric Composition on the Molecular Structure of Synthesized Silicon Oxycarbides. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 3373-3380	3.8	19
148	Dynamic Evolution of Grain-Boundary Films in Liquid-Phase-Sintered Ultrafine Silicon Carbide Material. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 1753-1760	3.8	19
147	High temperature deformation of silicon nitride ceramics with different microstructures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1996 , 206, 45-48	5.3	19
146	Fracture-induced amorphization of polycrystalline SiO_2 stishovite: a potential platform for toughening in ceramics. <i>Scientific Reports</i> , 2014 , 4, 6558	4.9	18
145	Microstructural Evolution and Anisotropic Shrinkage in Constrained Sintering and Sinter Forging. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 2389-2397	3.8	18
144	Thermal barrier coating made of porous zirconium oxide on a nickel-based single crystal superalloy formed by plasma electrolytic oxidation. <i>Surface and Coatings Technology</i> , 2013 , 223, 47-51	4.4	18
143	Improved creep resistance of $\text{Si}_3\text{N}_4/\text{SiC}$ nanocomposites fabricated from amorphous Si-C-N precursor powder. <i>Journal of Materials Science Letters</i> , 1996 , 15, 505-507		18
142	Deformation of Alumina/Titanium Carbide Composite at Elevated Temperatures. <i>Journal of the American Ceramic Society</i> , 1991 , 74, 2258-2262	3.8	18
141	Calculation of Stress Intensity Factors for SENB Specimens by Boundary Collocation Procedure. <i>Journal of the Ceramic Association Japan</i> , 1985 , 93, 479-480		18
140	Compressive Deformation of Y_2O_3 -Stabilized $\text{ZrO}_2/\text{Al}_2\text{O}_3$ Composite. <i>Journal of the Ceramic Association Japan</i> , 1986 , 94, 1017-1020		18
139	Deformation of Monoclinic ZrO_2 Polycrystals and Y_2O_3 -Stabilized Tetragonal ZrO_2 Polycrystals below the Monoclinic-Tetragonal Transition Temperature. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 2834-2836	3.8	17
138	Ceramics superplasticity: Deformation mechanisms and microstructures. <i>Materials Characterization</i> , 1996 , 37, 331-341	3.9	17
137	R-Curve Behavior and Stable Crack Growth at Elevated Temperature ($1500 \leq T < 1650^\circ\text{C}$) in a $\text{Si}_3\text{N}_4/\text{SiC}$ Nanocomposite. <i>Journal of the American Ceramic Society</i> , 1994 , 77, 3237-3243	3.8	16
136	Determination of the size of representative volume element for viscous sintering. <i>Journal of the Ceramic Society of Japan</i> , 2016 , 124, 421-425	1	15
135	Superplasticity-like Deformation of Nanocrystalline Monoclinic Zirconia at Elevated Temperatures. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 1122-1125	3.8	15

134	Fabrication of zirconia-alumina functionally gradient material by superplastic diffusion bonding. <i>Journal of Materials Science</i> , 1993 , 28, 5793-5799	4.3	15
133	Computation of sintering stress and bulk viscosity from microtomographic images in viscous sintering of glass particles. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 867-875	3.8	14
132	3D multiscale-imaging of processing-induced defects formed during sintering of hierarchical powder packings. <i>Scientific Reports</i> , 2019 , 9, 11595	4.9	14
131	Effect of Amount of Boron Doping on Compression Deformation of Fine-Grained Silicon Carbide at Elevated Temperature. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 1525-1529	3.8	14
130	Tensile Ductility of Liquid-Phase Sintered Silicon Carbide at Elevated Temperature. <i>Materials Science Forum</i> , 1999 , 304-306, 507-512	0.4	14
129	Sintering force behind shape evolution by viscous flow. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 1119-1122	6	13
128	Tensor-Virial Equation for Deformation of a Particle in Viscous Sintering. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 2785-2787	3.8	13
127	High temperature plastic anisotropy of Y2O3 partially stabilized ZrO2 single crystals. <i>Journal of the European Ceramic Society</i> , 2002 , 22, 2609-2613	6	13
126	Evaluation of Crack Propagation in Hydroxyapatite by Double-Torsion Method in Air, Water and Toluene. <i>Journal of the Ceramic Society of Japan</i> , 1995 , 103, 648-652		13
125	Toughening enhanced at elevated temperatures in an alumina/zirconia dual-phase matrix composite reinforced with silicon carbide whiskers. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 3157-3163	6	12
124	Mechanics of viscous sintering on the micro- and macro-scale. <i>Acta Materialia</i> , 2013 , 61, 239-247	8.4	12
123	High-temperature deformation of SiALON nanoceramics without additives. <i>Scripta Materialia</i> , 2007 , 56, 871-874	5.6	12
122	Sintering forces in equilibrium and non-equilibrium states during sintering of two particles. <i>Science and Technology of Advanced Materials</i> , 2004 , 5, 521-525	7.1	12
121	Compression Deformation Mechanism of Silicon Carbide: I, Fine-Grained Boron- and Carbon-Doped Silicon Carbide Fabricated by Hot Isostatic Pressing. <i>Journal of the American Ceramic Society</i> , 2005 , 87, 1919-1926	3.8	12
120	High temperature plastic deformation of a tetragonal Y2O3-stabilized ZrO2 single crystals. <i>Scripta Materialia</i> , 2001 , 44, 2551-2555	5.6	12
119	Microstructure and superconducting properties of hot-pressed BiPbBrTaCu thick film. <i>Journal of Materials Research</i> , 1991 , 6, 1425-1432	2.5	12
118	Picosecond amorphization of SiO stishovite under tension. <i>Science Advances</i> , 2017 , 3, e1602339	14.3	11
117	Integrated molding of nanocrystalline tungsten carbide powder with stainless steel. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008 , 148, 145-148	3.1	11

116	Intragranular crack deflection and crystallographic slip in Si ₃ N ₄ /SiC nano-composites. <i>Journal of the European Ceramic Society</i> , 1993 , 11, 431-438	6	11
115	High-strain-rate superplasticity in nanocrystalline silicon nitride ceramics under compression. <i>Scripta Materialia</i> , 2015 , 103, 22-25	5.6	10
114	Influence of binder layer of spray-dried granules on occurrence and evolution of coarse defects in alumina ceramics during sintering. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 1846-1852	6	10
113	Optical Properties of Afterglow Nanoparticles : , Capped with Polyethylene Glycol. <i>Advances in Optical Technologies</i> , 2012 , 2012, 1-6		10
112	A Microscopic Model of Interface-Reaction-Controlled Sintering of Spherical Particles of Different Phases. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 1663-1671	3.8	10
111	⁶³ Cu and ⁶⁵ Cu NMR in a Single Crystal of K ₂ CuF ₄ . <i>Journal of the Physical Society of Japan</i> , 1981 , 50, 1109-1118	10	10
110	Direct observation of sintering mechanics of a single grain boundary. <i>Acta Materialia</i> , 2012 , 60, 507-516	8.4	9
109	Superplastic forging of silicon nitride ceramics with anisotropic microstructure control. <i>Journal of Materials Science Letters</i> , 1997 , 17, 45-47		9
108	Enhancement of high-temperature deformation in fine-grained silicon carbide with Al doping. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008 , 148, 261-264	3.1	9
107	High-temperature compressive deformation of SiAlON polycrystals containing minimum amount of intergranular glass phase. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008 , 148, 203-206	3.1	9
106	Effect of chemical composition of intergranular glass on superplastic compressive deformation of Silicon nitride. <i>Journal of the European Ceramic Society</i> , 2006 , 26, 1069-1074	6	9
105	Particle size, shape and orientation distributions: A general spheroid problem and application to deformed Si ₃ N ₄ microstructures. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1996 , 74, 215-228		8
104	Pore channel closure in sintering of a ring of three spheres. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 3365-3370	6	8
103	Molecular Dynamics Simulation of the Model Grain Boundary Structure of Polycrystalline Materials. <i>Molecular Simulation</i> , 1996 , 18, 179-192	2	8
102	Joining of Hot-Pressed Bi-Pb-Sr-Ca-Cu-O Superconductor. <i>Japanese Journal of Applied Physics</i> , 1989 , 28, L1740-L1741	1.4	8
101	Superplasticity of Ceramics. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 1989 , 75, 389-395	0.5	8
100	Viscous Poisson's ratio, bulk and shear viscosity during electrical field assisted sintering of polycrystalline ceria. <i>Scripta Materialia</i> , 2020 , 178, 240-243	5.6	8
99	Effect of Oxygen Segregation at Grain Boundaries on Deformation of B, C-Doped Silicon Carbides at Elevated Temperatures. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 1558-1563	3.8	7

98	Fabrication of polycarbosilane-derived SiC bulk ceramics by carbothermic reduction. <i>Scripta Materialia</i> , 1999 , 12, 175-178		7
97	Intergranular pinning potential and transport current path in Bi ₂ Pb ₂ Sr ₂ Ca ₂ Cu ₂ O polycrystal superconductor. <i>Physica C: Superconductivity and Its Applications</i> , 1991 , 185-189, 2213-2214	1-3	7
96	Superplasticity of mullite-zirconia composite. <i>Journal of Materials Science</i> , 1992 , 27, 3575-3580	4-3	7
95	Microstructural evolution of electrodes in sintering of multi-layer ceramic capacitors (MLCC) observed by synchrotron X-ray nano-CT. <i>Acta Materialia</i> , 2021 , 206, 116605	8.4	7
94	Surface tension-pressure superposition principle for anisotropic shrinkage of an ellipsoidal pore in viscous sintering. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 4283-4289	6	7
93	Thermal expansion and P-V-T equation of state of cubic silicon nitride. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 3627-3633	6	6
92	Thermal-Shock Fracture and Damage Resistance Improved by Whisker Reinforcement in Alumina Matrix Composite. <i>International Journal of Applied Ceramic Technology</i> , 2016 , 13, 653-661	2	6
91	Strength and toughness of nanocrystalline SiO ₂ stishovite toughened by fracture-induced amorphization. <i>Acta Materialia</i> , 2017 , 124, 316-324	8.4	6
90	Effect of the Elastic Deformation of a Point-Sharp Indenter on Nanoindentation Behavior. <i>Materials</i> , 2017 , 10,	3.5	6
89	Representative indentation elastic modulus evaluated by unloading of nanoindentation made with a point sharp indenter. <i>Mechanics of Materials</i> , 2015 , 83, 66-71	3.3	6
88	Tensor virial equation of evolving surfaces in sintering of aggregates of particles by diffusion. <i>Acta Materialia</i> , 2013 , 61, 4103-4112	8.4	6
87	Development of Creep-Resistant Tungsten Carbide Copper Cemented Carbide. <i>Materials Transactions</i> , 2009 , 50, 1250-1254	1-3	6
86	Segregation and Local Structure at Grain Boundaries in SiO ₂ -Doped Tetragonal ZrO ₂ Polycrystalline Materials. <i>Journal of Materials Synthesis and Processing</i> , 1998 , 6, 393-399		6
85	Influence of Particle Arrangement on Coarsening during Sintering of Three Spherical Particles. <i>Journal of the Ceramic Society of Japan</i> , 2006 , 114, 974-978		6
84	Dynamics of Grain Boundary Network in Ceramics Superplasticity. <i>Journal of the Ceramic Society of Japan</i> , 2004 , 112, 472-476		6
83	Influence of magnetic field on transport current path in Bi ₂ Pb ₂ Sr ₂ Ca ₂ Cu ₂ O granular superconductor. <i>Physica C: Superconductivity and Its Applications</i> , 1991 , 174, 335-339	1-3	6
82	Diffusion bonding of ceramics: mullite, ZrO ₂ -toughened mullite. <i>Journal of Materials Science</i> , 1991 , 26, 4985-4990	4-3	6
81	Three-dimensional computer study of rearrangement during liquid phase sintering. <i>Mathematical and Computer Modelling</i> , 2012 , 55, 1251-1262		5

80	Evaluation of effects of crack deflection and grain bridging on toughening of nanocrystalline SiO ₂ stishovite. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 5113-5117	6	5
79	Molecular Dynamics Simulation of the Grain Growth in Nano-Grained Metallic Polycrystals. <i>Materials Transactions</i> , 2001 , 42, 2266-2269	1.3	5
78	Statistics of grain disappearance in three-dimensional normal grain growth. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2001 , 81, 517-524		5
77	Deformation Conditions of SiAlON to Achieve Large Superplastic Elongation. <i>Journal of the Ceramic Society of Japan</i> , 1998 , 106, 1040-1042		5
76	Change in stress, stress sensitivity and activation energy during superplastic deformation of silicon nitride. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999 , 268, 141-146	5.3	5
75	Comparison between sinter forging and X-ray microtomography methods for determining sintering stress and bulk viscosity. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 2053-2058	6	4
74	Representative indentation yield stress evaluated by behavior of nanoindentations made with a point sharp indenter. <i>Mechanics of Materials</i> , 2016 , 92, 1-7	3.3	4
73	Effect of internal stress disturbance on the stress-induced transformation toughening of an alumina/zirconia dual-phase composite. <i>Philosophical Magazine</i> , 2004 , 84, 3741-3754	1.6	4
72	High Temperature Deformation of Ceramics Simulated by Molecular Dynamics. <i>Materials Science Forum</i> , 1996 , 243-245, 351-356	0.4	4
71	The relation between internal friction and tensile creep deformation on alumina ceramics. <i>Journal of Alloys and Compounds</i> , 1994 , 211-212, 361-364	5.7	4
70	Two step dependence of critical temperature on oxygen content for the Bi-Pb-Sr-Ca-Cu-O superconductor. <i>Physica C: Superconductivity and Its Applications</i> , 1991 , 181, 331-334	1.3	4
69	Superplasticity of Non-Oxide Ceramics. <i>Materials Research Society Symposia Proceedings</i> , 1990 , 196, 349		4
68	Morphology of subsurface cracks in glass-ceramics induced by Vickers indentation observed by synchrotron X-ray multiscale tomography.. <i>Scientific Reports</i> , 2022 , 12, 6994	4.9	4
67	Sintering forces acting among particles during sintering by grain-boundary/surface diffusion. <i>Journal of the American Ceramic Society</i> , 2018 , 102, 538	3.8	3
66	A model of crack healing of glass by viscous flow at elevated temperatures. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 1373-1378	3.8	3
65	Effect of CaO Addition on Compressive Deformation of Silicon Nitride Ceramic with Y-Mg-Si-O-N Glassy System. <i>International Journal of Applied Ceramic Technology</i> , 2013 , 10, 756-763	2	3
64	High Temperature Deformation of Precursor Derived Si-C-N Ceramics. <i>Materials Science Forum</i> , 1999 , 304-306, 501-506	0.4	3
63	Amorphous Grain Boundary in Superplastic Ceramics. <i>Materials Science Forum</i> , 1996 , 243-245, 337-344	0.4	3

62	Sintering mechanics of ceramics: a short review. <i>Materials Today: Proceedings</i> , 2019 , 16, 4-13	1.4	2
61	Micromechanics of formation and shrinkage of a closed pore in sintering by coupled grain boundary/surface diffusion. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 2952-2959	6	2
60	Evolution of Microstructure and Intergranular Glass Chemistry in Plastically Deformed Nanocrystalline Si ₃ N ₄ Ceramics. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 178-185	3.8	2
59	Comment on "Local vs. global approach in the analysis of sintering kinetics" <i>Scripta Materialia</i> , 2010 , 62, 117-119	5.6	2
58	EVALUATION METHODS FOR PROPERTIES OF NANOSTRUCTURED BODY 2008 , 317-383		2
57	Crack formation and oxidation in superplastically deformed Si ₃ N ₄ . <i>Journal of Materials Science</i> , 1996 , 31, 5499-5504	4.3	2
56	Diffusion bonding of Al ₂ O ₃ /TiC composite. <i>Journal of Materials Science Letters</i> , 1994 , 13, 1375-1376		2
55	Superplastic Diffusion Bonding in Ceramics. <i>Journal of the Ceramic Society of Japan</i> , 1992 , 100, 1279-1284		2
54	Thermal instability of Bi-Pb-Sr-Ca-Cu-O superconductor around 650K. <i>Journal of Materials Science</i> , 1992 , 27, 3642-3644	4.3	2
53	Low temperature heat capacity measurements of β -Si ₃ N ₄ and β -Si ₃ N ₄ : Determination of the equilibrium phase boundary between β -Si ₃ N ₄ and β -Si ₃ N ₄ . <i>Journal of the European Ceramic Society</i> , 2020 , 40, 6309-6315	6	2
52	Determination of sintering stress and bulk viscosity from sinter-forging and X-ray microtomography methods: a Review. <i>Materials Today: Proceedings</i> , 2019 , 16, 42-48	1.4	1
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