

Rishi Raj

List of Publications by Year in descending order

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6606

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12258

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442
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442
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442
times ranked

10144
citing authors

#	ARTICLE	IF	CITATIONS
1	On grain boundary sliding and diffusional creep. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1971, 2, 1113-1127.	1.4	1,100
2	Flash Sintering of Nanograin Zirconia in 5 s at 850°C . Journal of the American Ceramic Society, 2010, 93, 3556-3559.	1.9	824
3	Intergranular fracture at elevated temperature. Acta Metallurgica, 1975, 23, 653-666.	2.1	771
4	Joule heating during flash-sintering. Journal of the European Ceramic Society, 2012, 32, 2293-2301.	2.8	419
5	Wettability of Graphene. Nano Letters, 2013, 13, 1509-1515.	4.5	400
6	Measurement of the ultimate shear strength of a metal-ceramic interface. Acta Metallurgica, 1989, 37, 1265-1270.	2.1	348
7	The effect of particle size on the thermal conductivity of ZnS/diamond composites. Acta Metallurgica Et Materialia, 1992, 40, 123-129.	1.9	348
8	Development of a Processing Map for Use in Warm-Forming and Hot-Forming Processes. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1981, 12, 1089-1097.	1.4	333
9	Field assisted and flash sintering of alumina and its relationship to conductivity and MgO-doping. Journal of the European Ceramic Society, 2011, 31, 2827-2837.	2.8	310
10	Creep in polycrystalline aggregates by matter transport through a liquid phase. Journal of Geophysical Research, 1982, 87, 4731-4739.	3.3	300
11	Estimate of the Activation Energies for Boundary Diffusion from Rate-Controlled Sintering of Pure Alumina, and Alumina Doped with Zirconia or Titania. Journal of the American Ceramic Society, 1990, 73, 1172-1175.	1.9	289
12	Solution-precipitation creep in glass ceramics. Acta Metallurgica, 1981, 29, 159-166.	2.1	279
13	Influence of Externally Imposed and Internally Generated Electrical Fields on Grain Growth, Diffusional Creep, Sintering and Related Phenomena in Ceramics. Journal of the American Ceramic Society, 2011, 94, 1941-1965.	1.9	267
14	Nucleation of cavities at second phase particles in grain boundaries. Acta Metallurgica, 1978, 26, 995-1006.	2.1	240
15	Mapping sp ² and sp ³ states of carbon at sub-nanometre spatial resolution. Nature, 1993, 366, 725-727.	13.7	235
16	Amorphous Silicoboron Carbonitride Ceramic with Very High Viscosity at Temperatures above 1500°C . Journal of the American Ceramic Society, 1998, 81, 3341-3344.	1.9	234
17	Fundamental Research in Structural Ceramics for Service Near 2000°C . Journal of the American Ceramic Society, 1993, 76, 2147-2174.	1.9	222
18	Flash Sintering of Cubic Yttria-Stabilized Zirconia at 750°C for Possible Use in SOFC Manufacturing. Journal of the American Ceramic Society, 2011, 94, 316-319.	1.9	218

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19	Sintering Behavior of Ceramic Films Constrained by a Rigid Substrate. Journal of the American Ceramic Society, 1985, 68, 287-292.	1.9	216
20	Sintering behavior of bi-modal powder compacts. Acta Metallurgica, 1984, 32, 1003-1019.	2.1	206
21	Influence of the Field and the Current Limit on Flash Sintering at Isothermal Furnace Temperatures. Journal of the American Ceramic Society, 2013, 96, 2754-2758.	1.9	203
22	Flash-sintering of Co ₂ MnO ₄ spinel for solid oxide fuel cell applications. Journal of Power Sources, 2011, 196, 2061-2065.	4.0	181
23	Fabrication of SiCN MEMS by photopolymerization of pre-ceramic polymer. Sensors and Actuators A: Physical, 2002, 95, 120-134.	2.0	172
24	A picoscale catalyst for hydrogen generation from NaBH ₄ for fuel cells. Journal of Power Sources, 2007, 165, 315-323.	4.0	167
25	Newtonian Viscosity of Amorphous Silicon Carbonitride at High Temperature. Journal of the American Ceramic Society, 1998, 81, 1349-1352.	1.9	162
26	Shear Deformation and Densification of Powder Compacts. Journal of the American Ceramic Society, 1986, 69, 499-506.	1.9	161
27	Current limit diagrams for dendrite formation in solid-state electrolytes for Li-ion batteries. Journal of Power Sources, 2017, 343, 119-126.	4.0	161
28	Densification behaviour and microstructural development in undoped yttria prepared by flash-sintering. Journal of the European Ceramic Society, 2014, 34, 991-1000.	2.8	159
29	Activation Energy for the Sintering of Two-Phase Alumina/Zirconia Ceramics. Journal of the American Ceramic Society, 1991, 74, 1959-1963.	1.9	154
30	The Effect of Electric Field on Sintering and Electrical Conductivity of Titania. Journal of the American Ceramic Society, 2014, 97, 527-534.	1.9	151
31	Mechanism of Superplastic Flow in a Fine-Grained Ceramic Containing Some Liquid Phase. Journal of the American Ceramic Society, 1984, 67, 399-409.	1.9	150
32	Analysis of the Power Density at the Onset of Flash Sintering. Journal of the American Ceramic Society, 2016, 99, 3226-3232.	1.9	150
33	A Huge Effect of Weak dc Electrical Fields on Grain Growth in Zirconia. Journal of the American Ceramic Society, 2009, 92, 1856-1859.	1.9	149
34	Defect Structure of Flash-Sintered Strontium Titanate. Journal of the American Ceramic Society, 2012, 95, 2531-2536.	1.9	148
35	Creep fracture in ceramics containing small amounts of a liquid phase. Acta Metallurgica, 1982, 30, 1043-1058.	2.1	146
36	Crystallization Maps for SiCO Amorphous Ceramics. Journal of the American Ceramic Society, 2007, 90, 578-583.	1.9	144

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37	Flash sintering as a nucleation phenomenon and a model thereof. Journal of the European Ceramic Society, 2014, 34, 4063-4067.	2.8	144
38	Fabrication of SiCN ceramic MEMS using injectable polymer-precursor technique. Sensors and Actuators A: Physical, 2001, 89, 64-70.	2.0	143
39	Enhanced Sintering Rate of Zirconia (3Y ZrO_2) Through the Effect of a Weak dc Electric Field on Grain Growth. Journal of the American Ceramic Society, 2010, 93, 2935-2937.	1.9	135
40	Field-assisted sintering of undoped BaTiO ₃ : Microstructure evolution and dielectric permittivity. Journal of the European Ceramic Society, 2014, 34, 3655-3660.	2.8	131
41	Non-wetting droplets on hot superhydrophilic surfaces. Nature Communications, 2013, 4, 2518.	5.8	129
42	A Model for the Nanodomains in Polymer-Derived SiCO. Journal of the American Ceramic Society, 2006, 89, 060428035142017-???	1.9	128
43	Unified Model for Contact Angle Hysteresis on Heterogeneous and Superhydrophobic Surfaces. Langmuir, 2012, 28, 15777-15788.	1.6	127
44	Mechanical properties of a fully dense polymer derived ceramic made by a novel pressure casting process. Acta Materialia, 2002, 50, 4093-4103.	3.8	123
45	Grain-Growth Transition During Sintering of Colloidally Prepared Alumina Powder Compacts. Journal of the American Ceramic Society, 1988, 71, 1031-1035.	1.9	120
46	BaSi ₂ and thin film alkaline earth silicides on silicon. Applied Physics Letters, 1993, 63, 2818-2820.	1.5	119
47	Thermodynamically Stable Si _x O _y C _z Polymer-Like Amorphous Ceramics. Journal of the American Ceramic Society, 2007, 90, 3213-3219.	1.9	117
48	Design of micropillar wicks for thin-film evaporation. International Journal of Heat and Mass Transfer, 2016, 101, 280-294.	2.5	116
49	Flaw Generation During Constrained Sintering of Metal-Ceramic and Metal-Glass Multilayer Films. Journal of the American Ceramic Society, 1989, 72, 1649-1655.	1.9	113
50	Measurement of viscosity of the grain-boundary phase in hot-pressed silicon nitride. Journal of Materials Science, 1976, 11, 49-53.	1.7	112
51	Electroluminescence and the measurement of temperature during Stage III of flash sintering experiments. Journal of the European Ceramic Society, 2015, 35, 3195-3199.	2.8	112
52	Transient behavior of diffusion-induced creep and creep rupture. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1975, 6, 1499-1509.	1.4	111
53	Grain size distribution effects in superplasticity. Acta Metallurgica, 1981, 29, 607-616.	2.1	110
54	Sintering of TiO ₂ -Al ₂ O ₃ Composites: A Model Experimental Investigation. Journal of the American Ceramic Society, 1988, 71, 302-310.	1.9	109

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55	Particle size effects in flash sintering. Journal of the European Ceramic Society, 2012, 32, 3129-3136.	2.8	109
56	Crystallization of small quantities of glass (or a liquid) segregated in grain boundaries. Acta Metallurgica, 1981, 29, 1993-2000.	2.1	108
57	Cyclic stability and C-rate performance of amorphous silicon and carbon based anodes for electrochemical storage of lithium. Journal of Power Sources, 2011, 196, 2179-2186.	4.0	107
58	Superplastic Flow in Fine-Grained Alumina. Journal of the American Ceramic Society, 1986, 69, 135-138.	1.9	103
59	Overview no. 100 Scalings in fracture probabilities for a brittle matrix fiber composite. Acta Metallurgica Et Materialia, 1992, 40, 2813-2828.	1.9	103
60	Use of the internal friction technique to measure rates of grain boundary sliding. Acta Metallurgica, 1974, 22, 1469-1474.	2.1	96
61	Oxidation Kinetics of an Amorphous Silicon Carbonitride Ceramic. Journal of the American Ceramic Society, 2001, 84, 1803-1810.	1.9	96
62	Flash Sintering of Nanograin Zirconia: Field Assisted Sintering and Superplasticity. Journal of the American Ceramic Society, 2012, 95, 138-146.	1.9	95
63	Diffusional relaxation of stress concentration at second phase particles. Acta Metallurgica, 1978, 26, 1551-1558.	2.1	93
64	MgO epitaxial thin films on (100) GaAs as a substrate for the growth of oriented PbTiO ₃ . Applied Physics Letters, 1992, 60, 3105-3107.	1.5	93
65	Emergence and Extinction of a New Phase During On-Off Experiments Related to Flash Sintering of 3Y-SZ. Journal of the American Ceramic Society, 2015, 98, 1493-1497.	1.9	91
66	Fracture at elevated temperature. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1977, 8, 1917-1933.	1.4	90
67	Pyrolysis Kinetics for the Conversion of a Polymer into an Amorphous Silicon Oxycarbide Ceramic. Journal of the American Ceramic Society, 2002, 85, 2181-2187.	1.9	90
68	Segregation of Mg to the (0001) Surface of Doped Sapphire. Journal of the American Ceramic Society, 1985, 68, 281-286.	1.9	88
69	Separation of Cavitation-Strain and Creep-Strain During Deformation. Journal of the American Ceramic Society, 1982, 65, C-46-C-46.	1.9	86
70	Preparation of Ultrathin-Walled Carbon-Based Nanoporous Structures by Etching Pseudo-Amorphous Silicon Oxycarbide Ceramics. Journal of the American Ceramic Society, 2006, 89, 2473-2480.	1.9	85
71	Field assisted sintering of ceramic constituted by alumina and yttria stabilized zirconia. Journal of the European Ceramic Society, 2014, 34, 2435-2442.	2.8	85
72	High-resolution liquid patterns via three-dimensional droplet shape control. Nature Communications, 2014, 5, 4975.	5.8	85

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73	Morphology and Stability of the Glass Phase in Glass Ceramic Systems. Journal of the American Ceramic Society, 1981, 64, 245-248.	1.9	84
74	Impedance Spectroscopy and Dielectric Properties of Flash Versus Conventionally Sintered Yttria-Doped Zirconia Electroceramics Viewed at the Microstructural Level. Journal of the American Ceramic Society, 2013, 96, 3760-3767.	1.9	84
75	Intergranular fracture in bicrystals. Acta Metallurgica, 1978, 26, 341-349.	2.1	83
76	Phase-pure BiFeO ₃ produced by reaction flash-sintering of Bi ₂ O ₃ and Fe ₂ O ₃ . Journal of Materials Chemistry A, 2018, 6, 5356-5366.	5.2	83
77	The Role of Grain-Boundary Sliding in Fracture of Hot-Pressed Si ₃ N ₄ at High Temperatures. Journal of the American Ceramic Society, 1980, 63, 513-517.	1.9	82
78	Thermodynamic measurements pertaining to the hysteretic intercalation of lithium in polymer-derived silicon oxycarbide. Journal of Power Sources, 2010, 195, 3900-3906.	4.0	82
79	Ultrahigh-Temperature Semiconductors Made from Polymer-Derived Ceramics. Journal of the American Ceramic Society, 2010, 93, 1668-1676.	1.9	82
80	Influence of hydrostatic pressure and multiaxial straining on cavitation in a superplastic aluminum alloy. Acta Metallurgica, 1982, 30, 2043-2053.	2.1	81
81	Characterization of Nanodomains in Polymer-Derived SiCN Ceramics Employing Multiple Techniques. Journal of the American Ceramic Society, 2005, 88, 232-234.	1.9	81
82	Analysis of the Sintering Pressure. Journal of the American Ceramic Society, 1987, 70, C-210-C-211.	1.9	79
83	Influence of microstructural scale on plastic flow behavior of metal matrix composites. Acta Materialia, 1997, 45, 1633-1643.	3.8	76
84	In-situ measurements of lattice expansion related to defect generation during flash sintering. Journal of the American Ceramic Society, 2017, 100, 4965-4970.	1.9	76
85	Solution precursor chemical vapor deposition of titanium oxide thin films. Thin Solid Films, 1991, 204, L13-L17.	0.8	74
86	Beyond flash sintering in 3 mol % yttria stabilized zirconia. Journal of the Ceramic Society of Japan, 2016, 124, 283-288.	0.5	74
87	Packing and Sintering of Two-Dimensional Structures Made from Bimodal Particle Size Distributions. Journal of the American Ceramic Society, 1987, 70, 843-849.	1.9	73
88	Control of the mechanical properties of metal-ceramic interfaces through interfacial reactions. Acta Metallurgica Et Materialia, 1990, 38, 2215-2224.	1.9	73
89	The role of carbon in unexpected visco(an)elastic behavior of amorphous silicon oxycarbide above 1273K. Journal of Non-Crystalline Solids, 2005, 351, 2238-2243.	1.5	73
90	Reactive flash sintering of the entropy-stabilized oxide Mg _{0.2} Ni _{0.2} Co _{0.2} Cu _{0.2} Zn _{0.2} O. Scripta Materialia, 2020, 181, 48-52.	2.6	72

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91	Copper on sapphire: Stability of thin films at 0.7 Tm. Acta Metallurgica, 1989, 37, 2947-2952.	2.1	71
92	Introduction to the Special Topical Issue on Ultrahigh-Temperature Polymer-Derived Ceramics. Journal of the American Ceramic Society, 2001, 84, 2158-2159.	1.9	71
93	A First Report of Photoemission in Experiments Related to Flash Sintering. Journal of the American Ceramic Society, 2014, 97, 2427-2430.	1.9	71
94	Processing and characterization of silicon carbon-nitride ceramics: application of electrical properties towards MEMS thermal actuators. Sensors and Actuators A: Physical, 2003, 103, 171-181.	2.0	70
95	Giant piezoresistivity of polymer-derived ceramics at high temperatures. Journal of the European Ceramic Society, 2010, 30, 2203-2207.	2.8	70
96	Lithium Insertion in Polymer-Derived Silicon Oxycarbide Ceramics. Journal of the American Ceramic Society, 2010, 93, 1127-1135.	1.9	70
97	Domain structure and phase transitions in epitaxial KNbO ₃ thin films studied by in situ second harmonic generation measurements. Applied Physics Letters, 1996, 68, 1323-1325.	1.5	67
98	Correction to: "Intergranular fracture at elevated temperature". Scripta Metallurgica, 1977, 11, 839-842.	1.2	66
99	Application of microforging to SiCN MEMS fabrication. Sensors and Actuators A: Physical, 2002, 95, 143-151.	2.0	66
100	Micromechanical modelling of creep using distributed parameters. Acta Metallurgica, 1981, 29, 283-292.	2.1	64
101	Shear and Densification of Glass Powder Compacts. Journal of the American Ceramic Society, 1989, 72, 798-804.	1.9	64
102	Ultimate shear strengths of copper-silica and nickel-silica interfaces. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1990, 126, 125-131.	2.6	64
103	Contact line behavior for a highly wetting fluid under superheated conditions. International Journal of Heat and Mass Transfer, 2012, 55, 2664-2675.	2.5	64
104	Phase transformation in the alumina-titania system during flash sintering experiments. Journal of the European Ceramic Society, 2016, 36, 733-739.	2.8	64
105	Hold-time effects in high temperature fatigue. Acta Metallurgica, 1978, 26, 1007-1022.	2.1	62
106	Passive Oxidation of an Effluent System: The Case of Polymer-Derived SiCO. Journal of the American Ceramic Society, 2005, 88, 339-345.	1.9	59
107	Time evolution of stress redistribution around multiple fiber breaks in a composite with viscous and viscoelastic matrices. International Journal of Solids and Structures, 1998, 35, 3177-3211.	1.3	58
108	Flash sintering of highly insulating nanostructured phase-pure BiFeO ₃ . Journal of the American Ceramic Society, 2017, 100, 3365-3369.	1.9	58

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109	Surfactants for Bubble Removal against Buoyancy. Scientific Reports, 2016, 6, 19113.	1.6	57
110	Grain boundary sliding, and the effects of particles on its rate. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 1972, 3, 1937-1942.	1.0	56
111	Superplastic Deformation in Fine-Grained MgO 2Al ₂ O ₃ Spinel. Journal of the American Ceramic Society, 1985, 68, 522-529.	1.9	56
112	Sinter-Forging Characteristics of fine-Grained Zirconia. Journal of the American Ceramic Society, 1988, 71, C-507-C-509.	1.9	56
113	Enhancement of Strength through Sinter Forging. Journal of the American Ceramic Society, 1987, 70, 514-520.	1.9	55
114	Analysis of Solidification of a Semitransparent Planar Layer Using the Lattice Boltzmann Method and the Discrete Transfer Method. Numerical Heat Transfer; Part A: Applications, 2006, 49, 279-299.	1.2	55
115	Electronic conductivity in gadolinium doped ceria under direct current as a trigger for flash sintering. Scripta Materialia, 2020, 179, 55-60.	2.6	55
116	Study of the pyrolysis process of an hybrid CH ₃ SiO _{1.5} gel into a SiCO glass. Vibrational Spectroscopy, 2007, 45, 61-68.	1.2	54
117	The onset of the flash transition in single crystals of cubic zirconia as a function of electric field and temperature. Scripta Materialia, 2017, 134, 123-127.	2.6	54
118	Measurement of O and Ti atom displacements in TiO ₂ during flash sintering experiments. Journal of the American Ceramic Society, 2018, 101, 1811-1817.	1.9	54
119	Flash sintering with current rate: A different approach. Journal of the American Ceramic Society, 2019, 102, 823-835.	1.9	54
120	Current-rate flash sintering of gadolinium doped ceria: Microstructure and Defect generation. Acta Materialia, 2020, 189, 145-153.	3.8	54
121	Analysis of Sintering of a Composite with a Glass or Ceramic Matrix. Journal of the American Ceramic Society, 1986, 69, C-55-C-57.	1.9	53
122	Effect of Hydrophilic Defects on Water Transport in MFI Zeolites. Langmuir, 2014, 30, 6446-6453.	1.6	53
123	Processing, microstructural evolution and strength properties of in-situ magnesium matrix composites containing nano-sized polymer derived SiCNO particles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 685, 429-438.	2.6	53
124	Silicon-oxycarbide based thin film anodes for lithium ion batteries. Journal of Power Sources, 2011, 196, 5945-5950.	4.0	52
125	Influence of Grain Size on Ferroelastic Toughening and Piezoelectric Behavior of Lead Zirconate Titanate. Journal of the American Ceramic Society, 1995, 78, 3363-3368.	1.9	51
126	X-ray characterization of the domain structure of epitaxial lead titanate thin films on (001) strontium titanate. Applied Physics Letters, 1995, 67, 792-794.	1.5	51

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127	Energetics of Si _x O _y C _z Polymer-Derived Ceramics Prepared Under Varying Conditions. Journal of the American Ceramic Society, 2008, 91, 2969-2974.	1.9	51
128	Effect of the Heating Rate on the Relative Rates of Sintering and Crystallization in Glass. Journal of the American Ceramic Society, 1989, 72, 2361-2364.	1.9	50
129	Surface Diffusion-Controlled Neck Growth Kinetics in Early Stage Sintering of Zirconia, with and without Applied DC Electrical Field. Journal of the American Ceramic Society, 2011, 94, 391-395.	1.9	50
130	Pyrolysis of Titanicene Molecular Layer Deposition Films as Precursors for Conducting TiO ₂ /Carbon Composite Films. Journal of Physical Chemistry C, 2013, 117, 17442-17450.	1.5	50
131	Polymer-Derived Ceramic Materials from Thiol-ene Photopolymerizations. Chemistry of Materials, 2003, 15, 4257-4261.	3.2	49
132	Pool Boiling Heat Transfer on the International Space Station: Experimental Results and Model Verification. Journal of Heat Transfer, 2012, 134, .	1.2	48
133	Surfactant aided bubble departure during pool boiling. International Journal of Thermal Sciences, 2018, 131, 105-113.	2.6	48
134	Influence of Hydrostatic Pressure and Humidity on Superplastic Ductility of Two $\hat{1}^2$ -Spodumene Glass-Ceramics. Journal of the American Ceramic Society, 1984, 67, 385-390.	1.9	47
135	Subcooled Pool Boiling in Variable Gravity Environments. Journal of Heat Transfer, 2009, 131, .	1.2	47
136	Flash Sintering of Anode-Electrolyte Multilayers for $\langle scp \rangle$ SOFC $\langle /scp \rangle$ Applications. Journal of the American Ceramic Society, 2013, 96, 1352-1354.	1.9	47
137	A novel in-situ polymer derived nano ceramic MMC by friction stir processing. Materials and Design, 2015, 85, 626-634.	3.3	47
138	On the role of Debye temperature in the onset of flash in three oxides. Scripta Materialia, 2019, 170, 81-84.	2.6	47
139	Epitaxial LiTaO ₃ thin film by pulsed metalorganic chemical vapor deposition from a single precursor. Applied Physics Letters, 1993, 63, 3146-3148.	1.5	46
140	Polymer-derived SiCN composites with magnetic properties. Journal of Materials Research, 2003, 18, 2549-2551.	1.2	46
141	Electric field-induced softening of alkali silicate glasses. Applied Physics Letters, 2015, 107, .	1.5	46
142	Creep crack propagation by cavitation near crack tips. Metal Science, 1980, 14, 385-394.	0.7	45
143	Rate mechanisms of a novel thiol-ene photopolymerization reaction. Macromolecular Symposia, 2004, 206, 361-374.	0.4	45
144	Generation of Frenkel defects above the Debye temperature by proliferation of phonons near the Brillouin zone edge. New Journal of Physics, 2018, 20, 093013.	1.2	45

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145	Fracture toughness of diamondlike carbon coatings. Journal of Materials Research, 1999, 14, 2173-2180.	1.2	44
146	Stress rupture. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1981, 12, 1291-1302.	1.4	43
147	Electric field induced texture in titania during experiments related to flash sintering. Journal of the European Ceramic Society, 2016, 36, 257-261.	2.8	43
148	Two unique measurements related to flash experiments with yttria-stabilized zirconia. Journal of the American Ceramic Society, 2017, 100, 5374-5378.	1.9	43
149	Reactive flash sintering of powders of four constituents into a single phase of a complex oxide in a few seconds below 700°C. Journal of the American Ceramic Society, 2019, 102, 6443-6448.	1.9	42
150	A model for the evolution of grain size distribution during superplastic deformation. Acta Metallurgica, 1986, 34, 447-456.	2.1	41
151	Oxidation Behavior of SiCN-ZrO ₂ Fiber Prepared from Alkoxide-Modified Silazane. Journal of the American Ceramic Society, 2004, 87, 1556-1558.	1.9	41
152	Correlations between conductivity, electroluminescence and flash sintering. Scripta Materialia, 2016, 118, 1-4.	2.6	41
153	Mechanical and Tribological Behavior of Polymer-Derived Ceramics Constituted from SiC _x O _y N _z . Journal of the American Ceramic Society, 2006, 89, 3706-3714.	1.9	40
154	Biomass-gasification-based atmospheric water harvesting in India. Energy, 2018, 165, 610-621.	4.5	40
155	Microstructure and microchemistry of flash sintered K _{0.5} Na _{0.5} NbO ₃ . Journal of the Ceramic Society of Japan, 2016, 124, 321-328.	0.5	39
156	Wettability-independent critical heat flux during boiling crisis in foaming solutions. International Journal of Heat and Mass Transfer, 2018, 126, 567-579.	2.5	38
157	Reactive flash sintering: MgO and Al ₂ O ₃ transform and sinter into single-phase polycrystals of MgAl ₂ O ₄ . Journal of the American Ceramic Society, 2019, 102, 2294-2303.	1.9	38
158	Activation Energies for Densification, Creep, and Grain-Boundary Sliding in Nitrogen Ceramics. Journal of the American Ceramic Society, 1981, 64, C-143-C-145.	1.9	37
159	Ultra-high vacuum chemical vapor deposition and <i>in situ</i> characterization of titanium oxide thin films. Journal of Materials Research, 1991, 6, 1913-1918.	1.2	37
160	Electric field induced domain rearrangement in potassium niobate thin films studied by <i>in situ</i> second harmonic generation measurements. Journal of Applied Physics, 1997, 81, 865-875.	1.1	37
161	Flash sintering of a three-phase alumina, spinel, and yttria-stabilized zirconia composite. Journal of the American Ceramic Society, 2017, 100, 3262-3268.	1.9	37
162	Sintering and Crystallization of Glass at Constant Heating Rates. Journal of the American Ceramic Society, 1989, 72, 1564-1566.	1.9	36

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163	Domain configurations in ferroelectric PbTiO ₃ thin films: The influence of substrate and film thickness. <i>Solid State Ionics</i> , 1995, 75, 43-48.	1.3	36
164	Measurement of an electrical potential induced by normal stress applied to the interface of an ionic material at elevated temperatures. <i>Acta Materialia</i> , 1999, 47, 3423-3431.	3.8	36
165	A novel micro glow plug fabricated from polymer-derived ceramics: in situ measurement of high-temperature properties and application to ultrahigh-temperature ignition. <i>Sensors and Actuators A: Physical</i> , 2003, 104, 246-262.	2.0	36
166	Better Sintering through Green-State Deformation Processing. <i>Journal of the American Ceramic Society</i> , 1990, 73, 2032-2037.	1.9	35
167	Interface effects in superplastic deformation of alumina containing zirconia, titania or hafnia as a second phase. <i>Acta Metallurgica Et Materialia</i> , 1991, 39, 2909-2919.	1.9	35
168	Reactive flash sintering of the complex oxide Li _{0.5} La _{0.5} TiO ₃ starting from an amorphous precursor powder. <i>Scripta Materialia</i> , 2020, 176, 78-82.	2.6	35
169	An upper bound on strain rate for wedge type fracture in nickel during creep. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1981, 12, 515-520.	1.4	34
170	Superplastic Deformation of Zinc Sulfide Near Its Transformation Temperature [1020o]. <i>Journal of the American Ceramic Society</i> , 1989, 72, 1792-1796.	1.9	34
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