

Rishi Raj

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416
papers

19,010
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73
h-index

122
g-index

442
ext. papers

20,659
ext. citations

4.3
avg, IF

7.2
L-index

#	Paper	IF	Citations
416	On grain boundary sliding and diffusional creep. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1971 , 2, 1113-1127		989
415	Intergranular fracture at elevated temperature. <i>Acta Metallurgica</i> , 1975 , 23, 653-666		706
414	Flash Sintering of Nanograin Zirconia in . <i>Journal of the American Ceramic Society</i> , 2010 , 93, 3556-3559	3.8	600
413	Wettability of graphene. <i>Nano Letters</i> , 2013 , 13, 1509-15	11.5	326
412	Joule heating during flash-sintering. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 2293-2301	6	311
411	Measurement of the ultimate shear strength of a metal-ceramic interface. <i>Acta Metallurgica</i> , 1989 , 37, 1265-1270		309
410	The effect of particle size on the thermal conductivity of ZnS/diamond composites. <i>Acta Metallurgica Et Materialia</i> , 1992 , 40, 123-129		300
409	Development of a Processing Map for Use in Warm-Forming and Hot-Forming Processes. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1981 , 12, 1089-1097		294
408	Creep in polycrystalline aggregates by matter transport through a liquid phase. <i>Journal of Geophysical Research</i> , 1982 , 87, 4731-4739		292
407	Field assisted and flash sintering of alumina and its relationship to conductivity and MgO-doping. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 2827-2837	6	264
406	Solution-precipitation creep in glass ceramics. <i>Acta Metallurgica</i> , 1981 , 29, 159-166		258
405	Estimate of the Activation Energies for Boundary Diffusion from Rate-Controlled Sintering of Pure Alumina, and Alumina Doped with Zirconia or Titania. <i>Journal of the American Ceramic Society</i> , 1990 , 73, 1172-1175	3.8	251
404	Influence of Externally Imposed and Internally Generated Electrical Fields on Grain Growth, Diffusional Creep, Sintering and Related Phenomena in Ceramics. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 1941-1965	3.8	234
403	Mapping sp ² and sp ³ states of carbon at sub-nanometre spatial resolution. <i>Nature</i> , 1993 , 366, 725-727	50.4	215
402	Amorphous Silicoboron Carbonitride Ceramic with Very High Viscosity at Temperatures above 1500°C. <i>Journal of the American Ceramic Society</i> , 1998 , 81, 3341-3344	3.8	208
401	Nucleation of cavities at second phase particles in grain boundaries. <i>Acta Metallurgica</i> , 1978 , 26, 995-1006		208
400	Sintering Behavior of Ceramic Films Constrained by a Rigid Substrate. <i>Journal of the American Ceramic Society</i> , 1985 , 68, 287-292	3.8	195

399	Sintering behavior of bi-modal powder compacts. <i>Acta Metallurgica</i> , 1984 , 32, 1003-1019		192
398	Flash-Sintering of Cubic Yttria-Stabilized Zirconia at 750°C for Possible Use in SOFC Manufacturing. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 316-319	3.8	190
397	Fundamental Research in Structural Ceramics for Service Near 2000°C. <i>Journal of the American Ceramic Society</i> , 1993 , 76, 2147-2174	3.8	188
396	Flash-sintering of Co ₂ MnO ₄ spinel for solid oxide fuel cell applications. <i>Journal of Power Sources</i> , 2011 , 196, 2061-2065	8.9	160
395	Influence of the Field and the Current Limit on Flash Sintering at Isothermal Furnace Temperatures. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 2754-2758	3.8	153
394	Fabrication of SiCN MEMS by photopolymerization of pre-ceramic polymer. <i>Sensors and Actuators A: Physical</i> , 2002 , 95, 120-134	3.9	149
393	Newtonian Viscosity of Amorphous Silicon Carbonitride at High Temperature. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 1349-1352	3.8	147
392	Shear Deformation and Densification of Powder Compacts. <i>Journal of the American Ceramic Society</i> , 1986 , 69, 499-506	3.8	145
391	A picoscale catalyst for hydrogen generation from NaBH ₄ for fuel cells. <i>Journal of Power Sources</i> , 2007 , 165, 315-323	8.9	142
390	Creep fracture in ceramics containing small amounts of a liquid phase. <i>Acta Metallurgica</i> , 1982 , 30, 1043-1058		139
389	Mechanism of Superplastic Flow in a Fine-Grained Ceramic Containing Some Liquid Phase. <i>Journal of the American Ceramic Society</i> , 1984 , 67, 399-409	3.8	134
388	A Huge Effect of Weak dc Electrical Fields on Grain Growth in Zirconia. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 1856-1859	3.8	129
387	Activation Energy for the Sintering of Two-Phase Alumina/Zirconia Ceramics. <i>Journal of the American Ceramic Society</i> , 1991 , 74, 1959-1963	3.8	129
386	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
385	The Effect of Electric Field on Sintering and Electrical Conductivity of Titania. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 527-534	3.8	128
384	Fabrication of SiCN ceramic MEMS using injectable polymer-precursor technique. <i>Sensors and Actuators A: Physical</i> , 2001 , 89, 64-70	3.9	128
383	Defect Structure of Flash-Sintered Strontium Titanate. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 2531-2536	3.8	125
382	Flash sintering as a nucleation phenomenon and a model thereof. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 4063-4067	6	120

381	Enhanced Sintering Rate of Zirconia (3Y-TZP) Through the Effect of a Weak dc Electric Field on Grain Growth. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 2935-2937	3.8	119
380	Crystallization Maps for SiCO Amorphous Ceramics. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 578-583	3.8	114
379	BaSi ₂ and thin film alkaline earth silicides on silicon. <i>Applied Physics Letters</i> , 1993 , 63, 2818-2820	3.4	113
378	Current limit diagrams for dendrite formation in solid-state electrolytes for Li-ion batteries. <i>Journal of Power Sources</i> , 2017 , 343, 119-126	8.9	111
377	Analysis of the Power Density at the Onset of Flash Sintering. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 3226-3232	3.8	111
376	Non-wetting droplets on hot superhydrophilic surfaces. <i>Nature Communications</i> , 2013 , 4, 2518	17.4	106
375	Mechanical properties of a fully dense polymer derived ceramic made by a novel pressure casting process. <i>Acta Materialia</i> , 2002 , 50, 4093-4103	8.4	105
374	Transient behavior of diffusion-induced creep and creep rupture. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1975 , 6, 1499-1509		105
373	Grain-Growth Transition During Sintering of Colloidally Prepared Alumina Powder Compacts. <i>Journal of the American Ceramic Society</i> , 1988 , 71, 1031-1035	3.8	104
372	Grain size distribution effects in superplasticity. <i>Acta Metallurgica</i> , 1981 , 29, 607-616		104
371	Thermodynamically Stable SixOyCz Polymer-Like Amorphous Ceramics. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 3213-3219	3.8	101
370	Crystallization of small quantities of glass (or a liquid) segregated in grain boundaries. <i>Acta Metallurgica</i> , 1981 , 29, 1993-2000		101
369	Sintering of TiO ₂ /Al ₂ O ₃ Composites: A Model Experimental Investigation. <i>Journal of the American Ceramic Society</i> , 1988 , 71, 302-310	3.8	100
368	Measurement of viscosity of the grain-boundary phase in hot-pressed silicon nitride. <i>Journal of Materials Science</i> , 1976 , 11, 49-53	4.3	98
367	Flaw Generation During Constrained Sintering of Metal-Ceramic and Metal-Glass Multilayer Films. <i>Journal of the American Ceramic Society</i> , 1989 , 72, 1649-1655	3.8	97
366	Unified model for contact angle hysteresis on heterogeneous and superhydrophobic surfaces. <i>Langmuir</i> , 2012 , 28, 15777-88	4	96
365	Cyclic stability and C-rate performance of amorphous silicon and carbon based anodes for electrochemical storage of lithium. <i>Journal of Power Sources</i> , 2011 , 196, 2179-2186	8.9	96
364	Overview no. 100 Scalings in fracture probabilities for a brittle matrix fiber composite. <i>Acta Metallurgica Et Materialia</i> , 1992 , 40, 2813-2828		95

363	Superplastic Flow in Fine-Grained Alumina. <i>Journal of the American Ceramic Society</i> , 1986 , 69, 135-138	3.8	95
362	Field-assisted sintering of undoped BaTiO ₃ : Microstructure evolution and dielectric permittivity. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 3655-3660	6	94
361	Oxidation Kinetics of an Amorphous Silicon Carbonitride Ceramic. <i>Journal of the American Ceramic Society</i> , 2004 , 84, 1803-1810	3.8	92
360	Use of the internal friction technique to measure rates of grain boundary sliding. <i>Acta Metallurgica</i> , 1974 , 22, 1469-1474		90
359	Particle size effects in flash sintering. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 3129-3136	6	89
358	Electroluminescence and the measurement of temperature during Stage III of flash sintering experiments. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 3195-3199	6	87
357	Diffusional relaxation of stress concentration at second phase particles. <i>Acta Metallurgica</i> , 1978 , 26, 1551-1558		87
356	MgO epitaxial thin films on (100) GaAs as a substrate for the growth of oriented PbTiO ₃ . <i>Applied Physics Letters</i> , 1992 , 60, 3105-3107	3.4	86
355	Segregation of Mg to the (0001) Surface of Doped Sapphire. <i>Journal of the American Ceramic Society</i> , 1985 , 68, 281-286	3.8	83
354	Fracture at elevated temperature. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1977 , 8, 1917-1933		82
353	Pyrolysis Kinetics for the Conversion of a Polymer into an Amorphous Silicon Oxycarbide Ceramic. <i>Journal of the American Ceramic Society</i> , 2002 , 85, 2181-2187	3.8	80
352	Flash-Sinterforging of Nanograin Zirconia: Field Assisted Sintering and Superplasticity. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 138-146	3.8	78
351	Morphology and Stability of the Glass Phase in Glass Ceramic Systems. <i>Journal of the American Ceramic Society</i> , 1981 , 64, 245-248	3.8	78
350	Preparation of Ultrathin-Walled Carbon-Based Nanoporous Structures by Etching Pseudo-Amorphous Silicon Oxycarbide Ceramics. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 2473-2480	3.8	77
349	Field assisted sintering of ceramic constituted by alumina and yttria stabilized zirconia. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 2435-2442	6	75
348	Influence of microstructural scale on plastic flow behavior of metal matrix composites. <i>Acta Materialia</i> , 1997 , 45, 1633-1643	8.4	75
347	The Role of Grain-Boundary Sliding in Fracture of Hot-Pressed Si ₃ N ₄ at High Temperatures. <i>Journal of the American Ceramic Society</i> , 1980 , 63, 513-517	3.8	75
346	Influence of hydrostatic pressure and multiaxial straining on cavitation in a superplastic aluminum alloy. <i>Acta Metallurgica</i> , 1982 , 30, 2043-2053		75

345	Thermodynamic measurements pertaining to the hysteretic intercalation of lithium in polymer-derived silicon oxycarbide. <i>Journal of Power Sources</i> , 2010 , 195, 3900-3906	8.9	74
344	Characterization of Nanodomains in Polymer-Derived SiCN Ceramics Employing Multiple Techniques. <i>Journal of the American Ceramic Society</i> , 2004 , 88, 232-234	3.8	74
343	Intergranular fracture in bicrystals. <i>Acta Metallurgica</i> , 1978 , 26, 341-349		73
342	Design of micropillar wicks for thin-film evaporation. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 101, 280-294	4.9	71
341	Emergence and Extinction of a New Phase During On/Off Experiments Related to Flash Sintering of 3YSZ. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 1493-1497	3.8	70
340	High-resolution liquid patterns via three-dimensional droplet shape control. <i>Nature Communications</i> , 2014 , 5, 4975	17.4	70
339	Control of the mechanical properties of metal-ceramic interfaces through interfacial reactions. <i>Acta Metallurgica Et Materialia</i> , 1990 , 38, 2215-2224		70
338	Impedance Spectroscopy and Dielectric Properties of Flash Versus Conventionally Sintered Yttria-Doped Zirconia Electroceramics Viewed at the Microstructural Level. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 3760-3767	3.8	68
337	Ultrahigh-Temperature Semiconductors Made from Polymer-Derived Ceramics. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 1668	3.8	66
336	The role of carbon in unexpected visco(an)elastic behavior of amorphous silicon oxycarbide above 1273K. <i>Journal of Non-Crystalline Solids</i> , 2005 , 351, 2238-2243	3.9	66
335	Solution precursor chemical vapor deposition of titanium oxide thin films. <i>Thin Solid Films</i> , 1991 , 204, L13-L17	2.2	66
334	Packing and Sintering of Two-Dimensional Structures Made from Bimodal Particle Size Distributions. <i>Journal of the American Ceramic Society</i> , 1987 , 70, 843-849	3.8	66
333	Copper on sapphire: Stability of thin films at 0.7 Tm. <i>Acta Metallurgica</i> , 1989 , 37, 2947-2952		65
332	Lithium Insertion in Polymer-Derived Silicon Oxycarbide Ceramics. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 1127-1135	3.8	64
331	Separation of Cavitation-Strain and Creep-Strain During Deformation. <i>Journal of the American Ceramic Society</i> , 1982 , 65, C-46-C-46	3.8	64
330	Processing and characterization of silicon carbon-nitride ceramics: application of electrical properties towards MEMS thermal actuators. <i>Sensors and Actuators A: Physical</i> , 2003 , 103, 171-181	3.9	63
329	Micromechanical modelling of creep using distributed parameters. <i>Acta Metallurgica</i> , 1981 , 29, 283-292		63
328	Introduction to the Special Topical Issue on Ultrahigh-Temperature Polymer-Derived Ceramics. <i>Journal of the American Ceramic Society</i> , 2004 , 84, 2158-2159	3.8	62

327	Analysis of the Sintering Pressure. <i>Journal of the American Ceramic Society</i> , 1987 , 70, C-210-C-211	3.8	62
326	Domain structure and phase transitions in epitaxial KNbO ₃ thin films studied by in situ second harmonic generation measurements. <i>Applied Physics Letters</i> , 1996 , 68, 1323-1325	3.4	61
325	Ultimate shear strengths of copper-silica and nickel-silica interfaces. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1990 , 126, 125-131	5.3	61
324	Correction to: Intergranular fracture at elevated temperature <i>Scripta Metallurgica</i> , 1977 , 11, 839-842		61
323	Phase-pure BiFeO ₃ produced by reaction flash-sintering of Bi ₂ O ₃ and Fe ₂ O ₃ . <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5356-5366	13	59
322	Giant piezoresistivity of polymer-derived ceramics at high temperatures. <i>Journal of the European Ceramic Society</i> , 2010 , 30, 2203-2207	6	59
321	Application of microforging to SiCN MEMS fabrication. <i>Sensors and Actuators A: Physical</i> , 2002 , 95, 143-151	5.1	59
320	Shear and Densification of Glass Powder Compacts. <i>Journal of the American Ceramic Society</i> , 1989 , 72, 798-804	3.8	57
319	A First Report of Photoemission in Experiments Related to Flash Sintering. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 2427-2430	3.8	56
318	Passive Oxidation of an Effluent System: The Case of Polymer-Derived SiCO. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 339-345	3.8	56
317	Hold-time effects in high temperature fatigue. <i>Acta Metallurgica</i> , 1978 , 26, 1007-1022		56
316	Beyond flash sintering in 3 mol % yttria stabilized zirconia. <i>Journal of the Ceramic Society of Japan</i> , 2016 , 124, 283-288	1	55
315	Grain boundary sliding, and the effects of particles on its rate. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 1972 , 3, 1937-1942	2.5	55
314	Phase transformation in the alumina-titania system during flash sintering experiments. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 733-739	6	54
313	Time evolution of stress redistribution around multiple fiber breaks in a composite with viscous and viscoelastic matrices. <i>International Journal of Solids and Structures</i> , 1998 , 35, 3177-3211	3.1	54
312	Sinter-Forging Characteristics of fine-Grained Zirconia. <i>Journal of the American Ceramic Society</i> , 1988 , 71, C-507-C-509	3.8	53
311	Superplastic Deformation in Fine-Grained MgO 2Al ₂ O ₃ Spinel. <i>Journal of the American Ceramic Society</i> , 1985 , 68, 522-529	3.8	53
310	In-situ measurements of lattice expansion related to defect generation during flash sintering. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 4965-4970	3.8	51

309	Contact line behavior for a highly wetting fluid under superheated conditions. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 2664-2675	4.9	51
308	Study of the pyrolysis process of an hybrid CH ₃ SiO _{1.5} gel into a SiCO glass. <i>Vibrational Spectroscopy</i> , 2007 , 45, 61-68	2.1	51
307	Analysis of Solidification of a Semitransparent Planar Layer Using the Lattice Boltzmann Method and the Discrete Transfer Method. <i>Numerical Heat Transfer; Part A: Applications</i> , 2006 , 49, 279-299	2.3	51
306	Silicon-oxycarbide based thin film anodes for lithium ion batteries. <i>Journal of Power Sources</i> , 2011 , 196, 5945-5950	8.9	49
305	Analysis of Sintering of a Composite with a Glass or Ceramic Matrix. <i>Journal of the American Ceramic Society</i> , 1986 , 69, C-55-C-57	3.8	48
304	The onset of the flash transition in single crystals of cubic zirconia as a function of electric field and temperature. <i>Scripta Materialia</i> , 2017 , 134, 123-127	5.6	46
303	Surface Diffusion-Controlled Neck Growth Kinetics in Early Stage Sintering of Zirconia, with and without Applied DC Electrical Field. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 391-395	3.8	46
302	Enhancement of Strength through Sinter Forging. <i>Journal of the American Ceramic Society</i> , 1987 , 70, 514-520	3.8	46
301	X-ray characterization of the domain structure of epitaxial lead titanate thin films on (001) strontium titanate. <i>Applied Physics Letters</i> , 1995 , 67, 792-794	3.4	45
300	Epitaxial LiTaO ₃ thin film by pulsed metalorganic chemical vapor deposition from a single precursor. <i>Applied Physics Letters</i> , 1993 , 63, 3146-3148	3.4	44
299	Energetics of SixOyCz Polymer-Derived Ceramics Prepared Under Varying Conditions. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 2969-2974	3.8	43
298	Effect of the Heating Rate on the Relative Rates of Sintering and Crystallization in Glass. <i>Journal of the American Ceramic Society</i> , 1989 , 72, 2361-2364	3.8	43
297	Flash sintering of highly insulating nanostructured phase-pure BiFeO ₃ . <i>Journal of the American Ceramic Society</i> , 2017 , 100, 3365-3369	3.8	42
296	Pyrolysis of Titanicone Molecular Layer Deposition Films as Precursors for Conducting TiO ₂ /Carbon Composite Films. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 17442-17450	3.8	42
295	Polymer-Derived Ceramic Materials from Thiol-ene Photopolymerizations. <i>Chemistry of Materials</i> , 2003 , 15, 4257-4261	9.6	42
294	Polymer-derived SiCN composites with magnetic properties. <i>Journal of Materials Research</i> , 2003 , 18, 2549-2551	2.5	42
293	A Model for the Nanodomains in Polymer-Derived SiCO. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 060428035142017-???	3.8	41
292	Influence of Grain Size on Ferroelastic Toughening and Piezoelectric Behavior of Lead Zirconate Titanate. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 3363-3368	3.8	41

291	Effect of hydrophilic defects on water transport in MFI zeolites. <i>Langmuir</i> , 2014 , 30, 6446-53	4	40
290	Electric field-induced softening of alkali silicate glasses. <i>Applied Physics Letters</i> , 2015 , 107, 184101	3.4	40
289	Rate mechanisms of a novel thiol-ene photopolymerization reaction. <i>Macromolecular Symposia</i> , 2004 , 206, 361-374	0.8	40
288	Creep crack propagation by cavitation near crack tips. <i>Metal Science</i> , 1980 , 14, 385-394		40
287	Surfactants for Bubble Removal against Buoyancy. <i>Scientific Reports</i> , 2016 , 6, 19113	4.9	40
286	Fracture toughness of diamondlike carbon coatings. <i>Journal of Materials Research</i> , 1999 , 14, 2173-2180	2.5	39
285	Stress rupture. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1981 , 12, 1291-1302		39
284	Subcooled Pool Boiling in Variable Gravity Environments. <i>Journal of Heat Transfer</i> , 2009 , 131,	1.8	38
283	Oxidation Behavior of SiCN/ZrO ₂ Fiber Prepared from Alkoxide-Modified Silazane. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 1556-1558	3.8	38
282	Measurement of O and Ti atom displacements in TiO ₂ during flash sintering experiments. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 1811-1817	3.8	38
281	A novel in-situ polymer derived nano ceramic MMC by friction stir processing. <i>Materials and Design</i> , 2015 , 85, 626-634	8.1	37
280	Electronic conductivity in gadolinium doped ceria under direct current as a trigger for flash sintering. <i>Scripta Materialia</i> , 2020 , 179, 55-60	5.6	37
279	Electric field induced texture in titania during experiments related to flash sintering. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 257-261	6	37
278	Mechanical and Tribological Behavior of Polymer-Derived Ceramics Constituted from SiC _x O _y N _z . <i>Journal of the American Ceramic Society</i> , 2006 , 89, 3706-3714	3.8	37
277	A model for the evolution of grain size distribution during superplastic deformation. <i>Acta Metallurgica</i> , 1986 , 34, 447-456		37
276	Influence of Hydrostatic Pressure and Humidity on Superplastic Ductility of Two β-Spodumene Glass-Ceramics. <i>Journal of the American Ceramic Society</i> , 1984 , 67, 385-390	3.8	37
275	Flash Sintering of Anode/Electrolyte Multilayers for SOFC Applications. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 1352-1354	3.8	36
274	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	8.4	35

273	Ultra-high vacuum chemical vapor deposition and in situ characterization of titanium oxide thin films. <i>Journal of Materials Research</i> , 1991 , 6, 1913-1918	2.5	35
272	Generation of Frenkel defects above the Debye temperature by proliferation of phonons near the Brillouin zone edge. <i>New Journal of Physics</i> , 2018 , 20, 093013	2.9	35
271	Flash sintering of a three-phase alumina, spinel, and yttria-stabilized zirconia composite. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 3262-3268	3.8	34
270	Two unique measurements related to flash experiments with yttria-stabilized zirconia. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 5374-5378	3.8	34
269	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		34
268	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		34
267	On the role of Debye temperature in the onset of flash in three oxides. <i>Scripta Materialia</i> , 2019 , 170, 81-84	5.6	33
266	Electric field induced domain rearrangement in potassium niobate thin films studied by in situ second harmonic generation measurements. <i>Journal of Applied Physics</i> , 1997 , 81, 865-875	2.5	33
265	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	3.9	33
264	Current-rate flash sintering of gadolinium doped ceria: Microstructure and Defect generation. <i>Acta Materialia</i> , 2020 , 189, 145-153	8.4	32
263	Correlations between conductivity, electroluminescence and flash sintering. <i>Scripta Materialia</i> , 2016 , 118, 1-4	5.6	32
262	Sintering and Crystallization of Glass at Constant Heating Rates. <i>Journal of the American Ceramic Society</i> , 1989 , 72, 1564-1566	3.8	32
261	Flash sintering with current rate: A different approach. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 823-835	3.8	32
260	Pool Boiling Heat Transfer on the International Space Station: Experimental Results and Model Verification. <i>Journal of Heat Transfer</i> , 2012 , 134,	1.8	31
259	Analysis of the single-fiber-composite test to measure the mechanical properties of metal-ceramic interfaces. <i>Acta Metallurgica Et Materialia</i> , 1994 , 42, 4177-4187		31
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