

Rishi Raj

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

416
papers

19,010
citations

73
h-index

122
g-index

442
ext. papers

20,659
ext. citations

4.3
avg, IF

7.2
L-index

#	Paper	IF	Citations
4 ¹⁶	In-flash immersion-and-quench of yttria-stabilized zirconia into liquid nitrogen yields an electronic conductor. <i>Journal of the American Ceramic Society</i> , 2022 , 105, 1635	3.8	0
4 ¹⁵	On the catalytic effect of zirconia on flash sintering of alumina. <i>Journal of the American Ceramic Society</i> , 2022 , 105, 3746-3752	3.8	0
4 ¹⁴	Nucleation of voids at second phase particles at lithium/ceramic interface degrades cell performance. <i>MRS Communications</i> , 2021 , 11, 879	2.7	
4 ¹³	Current constriction of Li-ion transport across lithium metal/ceramic electrolyte interface: Imaged with X-ray Tomography. <i>MRS Communications</i> , 2021 , 11, 283-287	2.7	4
4 ¹²	Frenkel pairs cause elastic softening in zirconia: theory and experiments. <i>New Journal of Physics</i> , 2021 , 23, 053013	2.9	3
4 ¹¹	Development of a processing map for safe flash sintering of gadolinium-doped ceria. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 4316-4328	3.8	6
4 ¹⁰	Influence of temperature and ASR on the critical current density in lithium-metal/ceramic cells. <i>MRS Communications</i> , 2021 , 11, 483-488	2.7	2
4 ⁰⁹	Phase evolution during reactive flash sintering of Li ₆ .25Al _{0.25} La ₃ Zr ₂ O ₁₂ starting from a chemically prepared powder. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 4552-4557	6	5
4 ⁰⁸	Influence of flash sintering on phase transformation and conductivity of hydroxyapatite. <i>Ceramics International</i> , 2021 , 47, 9125-9131	5.1	7
4 ⁰⁷	Thin coatings of hafnium abate oxidative recession of SiC fibers. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 1210-1215	3.8	1
4 ⁰⁶	Precipitous weakening of quartz at the α/β phase inversion. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 23-26	3.8	2
4 ⁰⁵	Flash sintering of yttria-stabilized zirconia powders coated with nanoscale films of alumina by atomic layer deposition. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 2472-2482	3.8	0
4 ⁰⁴	Stack Pressure and Critical Current Density in Li-metal Cells: The Role of Mechanical Deformation. <i>Acta Materialia</i> , 2021 , 215, 117076	8.4	6
4 ⁰³	On the Arrhenius-like behavior of conductivity during flash sintering of 3 mol% yttria stabilized zirconia ceramics. <i>Scripta Materialia</i> , 2021 , 203, 114093	5.6	1
4 ⁰²	Flash sintering: A new frontier in defect physics and materials science. <i>MRS Bulletin</i> , 2021 , 46, 36-43	3.2	11
4 ⁰¹	Electric field-assisted flash sintering of Bi ₂ /3Cu ₃ Ti ₄ O ₁₂ starting from a multi-phase precursor powder. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 4004-4009	6	3
4 ⁰⁰	Design, fabrication, and performance evaluation of a novel orientation independent and wickless heat spreader. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 153, 119572	4.9	3

399	Droplets on Lubricant-Infused Surfaces: Combination of Constant Mean Curvature Interfaces with Neumann Triangle Boundary Conditions. <i>Langmuir</i> , 2020 , 36, 2974-2983	4	6
398	Reactive flash sintering of the entropy-stabilized oxide Mg _{0.2} Ni _{0.2} Co _{0.2} Cu _{0.2} Zn _{0.2} O. <i>Scripta Materialia</i> , 2020 , 181, 48-52	5.6	29
397	Current-rate flash sintering of gadolinium doped ceria: Microstructure and Defect generation. <i>Acta Materialia</i> , 2020 , 189, 145-153	8.4	32
396	The flash effect in electronic conductors: The case of amorphous carbon fibers. <i>Scripta Materialia</i> , 2020 , 179, 20-24	5.6	2
395	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
394	Flash-induced spreading of metals on zirconia. <i>Scripta Materialia</i> , 2020 , 176, 73-77	5.6	4
393	An ingenious fluidic capacitor for complete suppression of thermal fluctuations in two-phase microchannel heat sinks. <i>International Communications in Heat and Mass Transfer</i> , 2020 , 110, 104347	5.8	6
392	Scalable macroscale wettability patterns for pool boiling heat transfer enhancement. <i>Heat and Mass Transfer</i> , 2020 , 56, 989-1000	2.2	5
391	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	5.6	21
390	Processing and properties of Bi _{0.98} R _{0.02} FeO ₃ (R=La, Sm, Y) ceramics flash sintered at ~650°C in . <i>Journal of the American Ceramic Society</i> , 2020 , 103, 136-144	3.8	4
389	Transition to electronic conduction at the onset of flash in cubic zirconia. <i>Scripta Materialia</i> , 2020 , 174, 29-32	5.6	21
388	Combined effect of inlet restrictor and nanostructure on two-phase flow performance of parallel microchannel heat sinks. <i>International Journal of Thermal Sciences</i> , 2020 , 153, 106339	4.1	9
387	Effect of foamability on pool boiling critical heat flux with nanofluids. <i>Soft Matter</i> , 2019 , 15, 5308-5318	3.6	9
386	Reactive flash sintering of powders of four constituents into a single phase of a complex oxide in a few seconds below 700°C. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 6443-6448	3.8	28
385	Surface-active ionic liquids as potential additive for pool boiling based energy systems. <i>Journal of Molecular Liquids</i> , 2019 , 287, 110953	6	10
384	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
383	In-situ acoustic detection of critical heat flux for controlling thermal runaway in boiling systems. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 138, 135-143	4.9	6
382	Experimental characterization and modeling of critical heat flux with subcooled foaming solution. <i>International Journal of Thermal Sciences</i> , 2019 , 141, 199-210	4.1	10

381	Reactive flash sintering: MgO and α -Al ₂ O ₃ transform and sinter into single-phase polycrystals of MgAl ₂ O ₄ . <i>Journal of the American Ceramic Society</i> , 2019 , 102, 2294-2303	3.8	26
380	α -Alumina and spinel react into single-phase high-alumina spinel in . <i>Journal of the American Ceramic Society</i> , 2019 , 102, 644-653	3.8	25
379	Flash sintering of Li-ion conducting ceramic in a few seconds at 850 °C. <i>Scripta Materialia</i> , 2019 , 172, 1-5	5.6	12
378	Design, fabrication, and performance evaluation of a novel biomass-gasification-based hot water generation system. <i>Energy</i> , 2019 , 185, 148-157	7.9	1
377	On the synchronicity of flash sintering and phase transformation. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 3110-3116	3.8	18
376	Flash sintering with current rate: A different approach. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 823-835	3.8	32
375	On the onset of fracture as a silicon-based polymer converts into the ceramic phase. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 924-929	3.8	7
374	Influence of flash sintering on the ionic conductivity of 8 mol% yttria stabilized zirconia. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 1352-1358	6	18
373	Thermohydraulic characterization of flow boiling in a nanostructured microchannel heat sink with vapor venting manifold. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 130, 1249-1259	4.9	21
372	Flash sintering of ceramic films: The influence of surface to volume ratio. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 3063-3069	3.8	7
371	Facile Fabrication of Nanostructured Microchannels for Flow Boiling Heat Transfer Enhancement. <i>Heat Transfer Engineering</i> , 2019 , 40, 537-548	1.7	15
370	Aqueous ionic liquid solutions for boiling heat transfer enhancement in the absence of buoyancy induced bubble departure. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 122, 354-363	4.9	12
369	Hotspot Thermal Management via Thin-Film Evaporation Part I: Experimental Characterization. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2018 , 8, 88-98	1.7	7
368	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
367	AC electric field-induced softening of alkali silicate glasses. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 2277-2286	3.8	4
366	Hotspot Thermal Management via Thin-Film Evaporation Part II: Modeling. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2018 , 8, 99-112	1.7	4
365	Continuous flash sintering. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 1432-1440	3.8	18
364	Wettability-independent critical heat flux during boiling crisis in foaming solutions. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 126, 567-579	4.9	22

363	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
362	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
361	Biomass-gasification-based atmospheric water harvesting in India. <i>Energy</i> , 2018 , 165, 610-621	7.9	25
360	Surfactant aided bubble departure during pool boiling. <i>International Journal of Thermal Sciences</i> , 2018 , 131, 105-113	4.1	27
359	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
358	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
357	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
356	Droplets on Microdecorated Surfaces: Evolution of the Polygonal Contact Line. <i>Langmuir</i> , 2017 , 33, 4854-4862	15	
355	Spline Based Shape Prediction and Analysis of Uniformly Rotating Sessile and Pendant Droplets. <i>Langmuir</i> , 2017 , 33, 5603-5612	4	8
354	Dynamic Roughness Ratio-Based Framework for Modeling Mixed Mode of Droplet Evaporation. <i>Langmuir</i> , 2017 , 33, 7191-7201	4	12
353	Stress rupture measurements of cast magnesium strengthened by in-situ production of ceramic particles. <i>Journal of Magnesium and Alloys</i> , 2017 , 5, 225-230	8.8	10
352	Flash transition as a possible origin for low open circuit voltage in thin film solid oxide fuel cells. <i>Journal of Power Sources</i> , 2017 , 359, 48-51	8.9	6
351	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
350	Processing, microstructural evolution and strength properties of in-situ magnesium matrix composites containing nano-sized polymer derived SiCNO particles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 685, 429-438	5.3	26
349	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
348	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
347	Mechanism of electric field-induced softening (EFIS) of alkali silicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2017 , 471, 384-395	3.9	17
346	Spline Based Modeling of Two-Dimensional Droplets on Rough and Heterogeneous Surfaces. <i>Lecture Notes in Mechanical Engineering</i> , 2017 , 1049-1058	0.4	

345	Predicting structural properties of amorphous silicon carbonitride by atomistic simulation. <i>International Journal of Materials and Structural Integrity</i> , 2016 , 10, 63	0.3	1
344	Beyond flash sintering in 3 mol % yttria stabilized zirconia. <i>Journal of the Ceramic Society of Japan</i> , 2016 , 124, 283-288	1	55
343	Microstructure and microchemistry of flash sintered K _{0.5} Na _{0.5} NbO ₃ . <i>Journal of the Ceramic Society of Japan</i> , 2016 , 124, 321-328	1	28
342	Electric field-assisted ultrafast synthesis of nanopowders: a novel and cost-efficient approach. <i>RSC Advances</i> , 2016 , 6, 107208-107213	3.7	12
341	Hotspot thermal management via thin-film evaporation 2016 ,		2
340	Additive Manufacturing of SiCN Ceramic Matrix for SiC Fiber Composites by Flash Pyrolysis of Nanoscale Polymer Films. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 1855-1858	3.8	9
339	Design of micropillar wicks for thin-film evaporation. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 101, 280-294	4.9	71
338	The Change of X-ray Diffraction Peak Width During in situ Conventional Sintering of Nanoscale Powders. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 765-768	3.8	10
337	Correlations between conductivity, electroluminescence and flash sintering. <i>Scripta Materialia</i> , 2016 , 118, 1-4	5.6	32
336	Dynamic Evolution of the Evaporating Liquid-Vapor Interface in Micropillar Arrays. <i>Langmuir</i> , 2016 , 32, 519-26	4	16
335	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
334	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
333	Onset of Nucleate Boiling, Void Fraction, and Liquid Film Thickness 2016 , 5-90		2
332	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
331	Broadening of Diffraction Peak Widths and Temperature Nonuniformity During Flash Experiments. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 3429-3434	3.8	24
330	Surfactants for Bubble Removal against Buoyancy. <i>Scientific Reports</i> , 2016 , 6, 19113	4.9	40
329	Preliminary investigation of hydroxyapatite microstructures prepared by flash sintering. <i>Advances in Applied Ceramics</i> , 2016 , 115, 276-281	2.3	23
328	Additive Manufacturing of Ceramics Enabled by Flash Pyrolysis of Polymer Precursors with Nanoscale Layers. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 57-63	3.8	17

327	Three-dimensional architecture of lithium-anodes made from graphite fibers coated with thin-films of silicon oxycarbide: Design, performance and manufacturability. <i>Journal of Power Sources</i> , 2016 , 310, 18-25	8.9	6
326	Electric field-assisted flash sintering of CaCu ₃ Ti ₄ O ₁₂ : Microstructure characteristics and dielectric properties. <i>Journal of Alloys and Compounds</i> , 2016 , 682, 753-758	5.7	22
325	Hafnia-silicon carbide nanocomposites II: Measurements of the residual stress. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 937-942	6	
324	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
323	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
322	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
321	SiOCN Functionalized Carbon Nanotube Gas Sensors for Elevated Temperature Applications. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 1142-1149	3.8	10
320	Bubble Nucleation During Oxidation of SiC. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 2579-2586	3.8	7
319	Evaluation of high temperature resistance of white SiOC(H) ceramics in an inert atmosphere. <i>Journal of Non-Crystalline Solids</i> , 2015 , 410, 106-111	3.9	5
318	On the thermodynamically stable amorphous phase of polymer-derived silicon oxycarbide. <i>Scientific Reports</i> , 2015 , 5, 14550	4.9	18
317	Optimization of Biporous Micropillar Array for Enhanced Heat Transfer Performance 2015 ,		3
316	Electric field-induced softening of alkali silicate glasses. <i>Applied Physics Letters</i> , 2015 , 107, 184101	3.4	40
315	Temperature Distributions During Flash Sintering of 8% Yttria-Stabilized Zirconia. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 3525-3528	3.8	26
314	Semiconductive Behavior of Polymer-Derived SiCN Ceramics for Hydrogen Sensing. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 1052-1055	3.8	17
313	Low-Wear High-Friction Behavior of Copper Matrix Composites Dispersed With an In Situ Polymer Derived Ceramic. <i>Journal of Tribology</i> , 2015 , 137,	1.8	3
312	Oxidation, mechanical and thermal properties of hafnia-silicon carbide nanocomposites. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 1783-1790	6	8
311	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
310	Dramatic influence of interface chemical potentials on the oxidation of silicon and carbon based compounds. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 1035-1039	6	1

309	Diffusive relaxation of Li in particles of silicon oxycarbide measured by galvanostatic titrations. <i>Journal of Power Sources</i> , 2014 , 249, 219-230	8.9	11
308	Framework water capacity and infiltration pressure of MFI zeolites. <i>Microporous and Mesoporous Materials</i> , 2014 , 190, 84-91	5.3	17
307	Interfacially engineered liquid-phase-sintered Cu ₆ Sn composite solders for thermal interface material applications. <i>Journal of Materials Science</i> , 2014 , 49, 7844-7854	4.3	11
306	Nanoporous evaporative device for advanced electronics thermal management 2014 ,		15
305	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
304	High-resolution liquid patterns via three-dimensional droplet shape control. <i>Nature Communications</i> , 2014 , 5, 4975	17.4	70
303	Flash sintering as a nucleation phenomenon and a model thereof. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 4063-4067	6	120
302	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
301	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
300	Effect of hydrophilic defects on water transport in MFI zeolites. <i>Langmuir</i> , 2014 , 30, 6446-53	4	40
299	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
298	Synthesis and Tribological Behavior of Silicon Oxycarbonitride Thin Films Derived from Poly(Urea)Methyl Vinyl Silazane 2014 , 223-236		1
297	Ab initio and FTIR Studies of HfSiCNO Processed from the Polymer Route. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 742-749	3.8	9
296	Reversible elastic deformation of functionalized sp ² carbon at pressures of up to 33 GPa. <i>Applied Physics Letters</i> , 2014 , 105, 141901	3.4	
295	Electric Fields Obviate Constrained Sintering. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 3103-3108	3.8	17
294	Polymer-Derived In-Situ Metal Matrix Composites Created by Direct Injection of a Liquid Polymer into Molten Magnesium. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 551-554	2.3	13
293	A Novel In Situ Method for Producing a Dispersion of a Ceramic Phase into Copper That Remains Stable at 0.9T M. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 4734-4742	2.3	14
292	Can Die Configuration Influence Field-Assisted Sintering of Oxides in the SPS Process?. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 3697-3700	3.8	2

291	Non-wetting droplets on hot superhydrophilic surfaces. <i>Nature Communications</i> , 2013 , 4, 2518	17.4	106
290	Extreme-rate capable and highly stable SiCO-TiO ₂ hybrids for Li ion battery anodes. <i>Chemical Communications</i> , 2013 , 49, 9657-9	5.8	8
289	Experiment and modeling of microstructured capillary wicks for thermal management of electronics 2013 ,		4
288	The role of non-stoichiometric defects in radiation damage evolution of SrTiO ₃ . <i>Journal of Materials Chemistry A</i> , 2013 , 1, 9235	13	10
287	Flash Sintering of AnodeElectrolyte Multilayers for SOFC Applications. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 1352-1354	3.8	36
286	Oxidation process of white SiO ₂ (H) ceramics with various hydrogen contents. <i>Scripta Materialia</i> , 2013 , 69, 602-605	5.6	20
285	Wettability of graphene. <i>Nano Letters</i> , 2013 , 13, 1509-15	11.5	326
284	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
283	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
282	Limits to the Stability of the Amorphous Nature of Polymer-Derived HfSiCNO Compounds. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 2117-2123	3.8	13
281	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
280	Oxidation of Polymer-Derived HfSiCNO up to 1600°C. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 1278-1284	3.8	21
279	Chemical Potential-Based Analysis for the Oxidation Kinetics of Si and SiC Single Crystals. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 2926-2934	3.8	5
278	A Langmuir-Kinetic Model for CVD Growth from Chemical Precursors. <i>Chemical Vapor Deposition</i> , 2013 , 19, 260-266		3
277	Grain Boundary Resistivity of Yttria-Stabilized Zirconia at 1400°C. <i>Journal of Ceramics</i> , 2013 , 2013, 1-4		2
276	Defect Structure of Flash-Sintered Strontium Titanate. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 2531-2536	3.8	125
275	Joule heating during flash-sintering. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 2293-2301	6	311
274	Particle size effects in flash sintering. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 3129-3136	6	89

273	Unified model for contact angle hysteresis on heterogeneous and superhydrophobic surfaces. <i>Langmuir</i> , 2012 , 28, 15777-88	4	96
272	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
271	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
270	On the Scaling of Pool Boiling Heat Flux With Gravity and Heater Size. <i>Journal of Heat Transfer</i> , 2012 , 134,	1.8	22
269	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
268	Evaporation-Induced Cassie Droplets on Superhydrophilic Microstructured Surfaces 2012 ,		1
267	Boiling in variable gravity under the action of an electric field: results of parabolic flight experiments. <i>Journal of Physics: Conference Series</i> , 2011 , 327, 012039	0.3	8
266	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
265	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
264	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
263	Surface Energy of Sol Gel-Derived Silicon Oxycarbide Glasses. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 4523-4533	3.8	22
262	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
261	Liquid phase sintered CuIn composite solders for thermal interface material and interconnect applications. <i>Journal of Materials Science</i> , 2011 , 46, 7012-7025	4.3	12
260	Ultrahigh figure-of-merit for hydrogen generation from sodium borohydride using ternary metal catalysts. <i>Journal of Power Sources</i> , 2011 , 196, 69-75	8.9	21
259	Superefficient thin film multilayer catalyst for generating hydrogen from sodium borohydride. <i>Journal of Power Sources</i> , 2011 , 196, 741-746	8.9	14
258	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
257	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
256	C-rate performance of silicon oxycarbide anodes for Li ⁺ batteries enhanced by carbon nanotubes. <i>Journal of Power Sources</i> , 2011 , 196, 2875-2878	8.9	23

255	Silicon-oxycarbide based thin film anodes for lithium ion batteries. <i>Journal of Power Sources</i> , 2011 , 196, 5945-5950	8.9	49
254	Compression Creep of Alumina Containing Interfacial Silicon, Carbon, and Nitrogen, Derived from a Polysilazane Precursor. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 954-958	3.8	4
253	Lithium Insertion in Polymer-Derived Silicon Oxycarbide Ceramics. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 1127-1135	3.8	64
252	Ultrahigh-Temperature Semiconductors Made from Polymer-Derived Ceramics. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 1668	3.8	66
251	Transient Viscous Flow During the Evolution of a Ceramic (Silicon Carbonitride) from a Polymer (Polysilazane). <i>Journal of the American Ceramic Society</i> , 2010 , 93, 2567-2570	3.8	9
250	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
249	Flash Sintering of Nanograin Zirconia in . <i>Journal of the American Ceramic Society</i> , 2010 , 93, 3556-3559	3.8	600
248	Gravity Scaling Parameter for Pool Boiling Heat Transfer. <i>Journal of Heat Transfer</i> , 2010 , 132,	1.8	21
247	Heater Size and Gravity Based Pool Boiling Regime Map: Transition Criteria Between Buoyancy and Surface Tension Dominated Boiling. <i>Journal of Heat Transfer</i> , 2010 , 132,	1.8	19
246	Inverse Problems in Stochastic Modeling of Mixed-Mode Power-Law and Diffusional Creep for Distributed Grain Size. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010 , 41, 308-317	2.3	2
245	Giant piezoresistivity of polymer-derived ceramics at high temperatures. <i>Journal of the European Ceramic Society</i> , 2010 , 30, 2203-2207	6	59
244	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
243	Colossal anelasticity in polycrystals deforming under conditions of diffusional creep. <i>Acta Materialia</i> , 2010 , 58, 702-708	8.4	
242	Subcooled Pool Boiling in Variable Gravity Environments. <i>Journal of Heat Transfer</i> , 2009 , 131,	1.8	38
241	Liquid Phase Sintered Solders with Indium as Minority Phase for Next Generation Thermal Interface Material Applications. <i>Journal of Electronic Materials</i> , 2009 , 38, 2735-2745	1.9	25
240	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
239	Thermocapillary convection during subcooled boiling in reduced gravity environments. <i>Annals of the New York Academy of Sciences</i> , 2009 , 1161, 173-81	6.5	1
238	Novel liquid phase sintered solders with indium as minority phase for next generation thermal interface material applications 2008 ,		3

237	A low-cost method for producing high-performance nanocomposite thin-films made from silica and CNTs on cellulose substrates. <i>Journal of Materials Science</i> , 2008 , 43, 4862-4869	4.3	11
236	Nanoceramic/Metal Matrix Composites by In-Situ Pyrolysis of Organic Precursors in a Liquid Melt. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008 , 39, 3291-3297	3.3	25
235	Thermodynamically Stable Si _w C _x N _y O _z Polymer-Like, Amorphous Ceramics Made from Organic Precursors. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 2391-2393	3.8	23
234	Intensely Photoluminescent Pseudo-Amorphous SiliconOxyCarboNitride Polymer/Ceramic Hybrids. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 2422-2424	3.8	30
233	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
232	Porous Al ₂ O ₃ -Spinel Based Polycrystals That Resist Free-Sintering. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 3451-3454	3.8	5
231	Novel Liquid Phase Sintered Sn-In Solders with Tailorable Properties for Thermal Interface Material and Interconnect Applications 2007 ,		3
230	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
229	Shear strength and sliding at a metal/ceramic (aluminum/spinel) interface at ambient and elevated temperatures. <i>Acta Materialia</i> , 2007 , 55, 3049-3057	8.4	16
228	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
227	Solidification of a semitransparent planar layer subjected to radiative and convective cooling. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2007 , 107, 226-235	2.1	19
226	Selection of TiN as the Interconnect Material for Measuring the Electrical Conductivity of Polymer-Derived SiCN at High Temperatures. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 295-297	3.8	6
225	Mechanical Design for Accommodating Thermal Expansion Mismatch in Multilayer Coatings for Environmental Protection at Ultrahigh Temperatures. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 170-176	3.8	4
224	Multilayer Design and Evaluation of a High Temperature Environmental Barrier Coating for Si-Based Ceramics. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 516-522	3.8	18
223	Crystallization Maps for SiCO Amorphous Ceramics. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 578-583	3.8	114
222	Thermodynamically Stable SixOyCz Polymer-Like Amorphous Ceramics. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 3213-3219	3.8	101
221	Novel Composites Constituted from Hafnia and a Polymer-Derived Ceramic as an Interface: Phase for Severe Ultrahigh Temperature Applications. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 3171-3176	3.8	22
220	A Phenomenological Model (and Experiments) for Liquid Phase Sintering. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2007 , 38, 628-637	2.3	7

219	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
218	Synthesis and Tribological Behavior of Silicon Oxycarbonitride Thin Films Derived from Poly(Urea)Methyl Vinyl Silazane. <i>International Journal of Applied Ceramic Technology</i> , 2006 , 3, 113-126	2	26
217	Effect of Steam Velocity on the Hydrothermal Oxidation/Volatilization of Silicon Nitride. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 1380-1387	3.8	18
216	A Model for the Nanodomains in Polymer-Derived SiCO. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 060428035142017-???	3.8	41
215	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
214	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
213	Diffusion reactions at AlMgAl ₂ O ₄ interfaces and the effect of applied electric fields. <i>Journal of Materials Science</i> , 2006 , 41, 7785-7797	4.3	10
212	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
211	Friction and Wear Behavior of Silicon Carbonitride Processed From the Polymer-Derived Ceramic Route 2005 , 473		2
210	Thermodynamic Analysis of Grain Aspect Ratio in Fibrous Microstructures of Silicon Nitride. <i>Journal of the American Ceramic Society</i> , 2005 , 80, 3250-3252	3.8	8
209	Newtonian Viscosity of Amorphous Silicon Carbonitride at High Temperature. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 1349-1352	3.8	147
208	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
207	Influence of grain size variability on the strain rate dependence of the stress exponent in mixed-mode power law and diffusional creep. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005 , 36, 2913-2919	2.3	8
206	Rate mechanisms of a novel thiol-ene photopolymerization reaction. <i>Macromolecular Symposia</i> , 2004 , 206, 361-374	0.8	40
205	Conversion Efficiency of Alkoxide Precursor to Oxide Films Grown by an Ultrasonic-Assisted, Pulsed Liquid Injection, Metalorganic Chemical Vapor Deposition (Pulsed-CVD) Process. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 1605-1607	3.8	22
204	Oxidation Kinetics of an Amorphous Silicon Carbonitride Ceramic. <i>Journal of the American Ceramic Society</i> , 2004 , 84, 1803-1810	3.8	92
203	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
202	Nanoscale Densification Creep in Polymer-Derived Silicon Carbonitrides at 1350°C. <i>Journal of the American Ceramic Society</i> , 2004 , 84, 2208-2212	3.8	20

201	Solid Yttria-Stabilized Zirconia Films by Pulsed Chemical Vapor Deposition from Metal-organic Precursors. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 2873-2875	3.8	7
200	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
199	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
198	Temperature-dependent variability in lifetime prediction of thermally activated systems. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2004 , 35, 1471-1476 ^{2,3}	2.3	3
197	Thiol-ene photopolymerization of polymer-derived ceramic precursors. <i>Journal of Polymer Science Part A</i> , 2004 , 42, 1752-1757	2.5	27
196	A methodology for analyzing the variability in the performance of a MEMS actuator made from a novel ceramic. <i>Sensors and Actuators A: Physical</i> , 2004 , 116, 336-344	3.9	15
195	Investigation on the oxidation process of SiCO glasses by the means of non-Rutherford backscattering spectrometry. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003 , 211, 401-407	1.2	12
194	YSZ layers by pulsed-MOCVD on solid oxide fuel cell electrodes. <i>Surface and Coatings Technology</i> , 2003 , 167, 226-233	4.4	20
193	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
192	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
191	A real time human-machine interface for an ultrahigh temperature MEMS sensor/igniter. <i>Sensors and Actuators A: Physical</i> , 2003 , 105, 23-30	3.9	4
190	Influence of Distributed Particle Size on the Determination of the Parabolic Rate Constant for Oxidation by the Powder Method. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 351-353	3.8	4
189	Integration of Ceramics Research with the Development of a Microsystem. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 1217-1219	3.8	3
188	Amorphous Silicon Carbonitride Fibers Drawn from Alkoxide Modified Ceraset. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 1443-1445	3.8	25
187	Polymer-Derived Ceramic Materials from Thiol-ene Photopolymerizations. <i>Chemistry of Materials</i> , 2003 , 15, 4257-4261	9.6	42
186	Polymer-derived SiCN composites with magnetic properties. <i>Journal of Materials Research</i> , 2003 , 18, 2549-2551	2.5	42
185	Carbon Nanotubes Welded by Precursor-Derived Silicoboron Carbonitride Ceramics: A TEM Study. <i>Physica Status Solidi A</i> , 2002 , 193, R13-R15		12
184	Ion exchange at a metal-ceramic interface. <i>Acta Materialia</i> , 2002 , 50, 1165-1176	8.4	11

183	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
182	Fabrication of SiCN MEMS by photopolymerization of pre-ceramic polymer. <i>Sensors and Actuators A: Physical</i> , 2002 , 95, 120-134	3.9	149
181	Application of microforging to SiCN MEMS fabrication. <i>Sensors and Actuators A: Physical</i> , 2002 , 95, 143-151	3.9	59
180	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
179	Crystallization of Polymer-Derived Silicon Carbonitride at 1873 K under Nitrogen Overpressure. <i>Journal of the American Ceramic Society</i> , 2002 , 85, 2587-2589	3.8	27
178	Growth rate and morphology for ceramic films by pulsed-MOCVD. <i>Surface and Coatings Technology</i> , 2001 , 141, 7-14	4.4	28
177	Fabrication of SiCN ceramic MEMS using injectable polymer-precursor technique. <i>Sensors and Actuators A: Physical</i> , 2001 , 89, 64-70	3.9	128
176	Experimental Characterization and Modeling of Pulsed MOCVD with Ultrasonic Atomization of Liquid Precursor. <i>Chemical Vapor Deposition</i> , 2001 , 7, 85-90		19
175	Unique precursor delivery and control afforded by low-pressure pulsed-CVD process with ultrasonic atomization. <i>European Physical Journal Special Topics</i> , 2001 , 11, Pr3-1161-Pr3-1168		8
174	An Interdisciplinary Framework for the Design and Life Prediction of Engineering Systems. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2000 , 122, 348-354	1.8	10
173	Fracture toughness of diamondlike carbon coatings. <i>Journal of Materials Research</i> , 1999 , 14, 2173-2180	2.5	39
172	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
171	A system level partitioning approach for analyzing the origins of variability in life prediction of tungsten filaments for incandescent lamps. <i>Materials & Design</i> , 1999 , 21, 9-18		13
170	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
169	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
168	Crystallization of a Liquid (or a Glass) Contained within a Nanotube. <i>Physica Status Solidi A</i> , 1998 , 166, 529-540		1
167	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
166	In-situ X-ray diffraction study of phase transitions in epitaxial KNbO ₃ thin films. <i>Ferroelectrics</i> , 1997 , 200, 343-351	0.6	1

165	Domain Wall Pinning by Grain Boundaries During Electric Field Poling of KNbO ₃ Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 493, 75		1
164	Influence of microstructural scale on plastic flow behavior of metal matrix composites. <i>Acta Materialia</i> , 1997 , 45, 1633-1643	8.4	75
163	Design and performance of a new type of Knudsen cell for chemical beam epitaxy using metal-organic precursors. <i>Vacuum</i> , 1997 , 48, 165-173	3.7	4
162	Epitaxial Variants and Grain Boundary Structures in Heteroepitaxial Lithium Tantalate on Basal Sapphire. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 441, 125		
161	The influence of micro structural scale on the creep resistance of high volume fraction ceramic-metal composites made from aluminum oxide and niobium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1996 , 206, 128-137	5.3	3
160	A mechanistic basis for high strain rate superplasticity of aluminum based metal matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1996 , 212, 14-21	5.3	3
159	A mechanistic basis for high strain rate superplasticity of aluminum based metal matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1996 , 215, 1-8	5.3	3
158	Space-Charge-Controlled Diffusional Creep: Volume Diffusion Case. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 193-198	3.8	22
157	Domain Structure-Second Harmonic Generation Correlation in Potassium Niobate Thin Films Deposited on a Strontium Titanate Substrate. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 3289-3296	3.8	16
156	Heteroepitaxial Growth Kinetics in a CVD Process Using Nickel Oxide on MgO as a Model System. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 1019-1024	3.8	2
155	Controlled Epitaxial Nucleation of Nickel Oxide on Microfabricated Magnesium Oxide Substrates in a CVD Process. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 1025-1033	3.8	1
154	A tungsten filament high temperature heater for thin film deposition. <i>Review of Scientific Instruments</i> , 1996 , 67, 3958-3960	1.7	3
153	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
152	Transmission electron microscopy study of microstructure and misfit dislocations in epitaxial LiTaO ₃ thin films grown on sapphire by a metalorganic chemical vapor deposition process. <i>Journal of Applied Physics</i> , 1996 , 79, 3675-3680	2.5	4
151	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
150	Metalorganic Chemical Vapor Deposition by Pulsed Liquid Injection Using an Ultrasonic Nozzle: Titanium Dioxide on Sapphire from Titanium(IV) Isopropoxide. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 2763-2768	3.8	19
149	Electron Cyclotron Resonance Plasma-Enhanced Metalorganic Chemical Vapor Deposition of Tantalum Oxide Thin Films on Silicon near Room Temperature. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 1585-1592	3.8	14
148	Structure-Optical Property Correlation of Epitaxial Potassium Niobate Thin Films Deposited on Magnesium Oxide (100) Substrates Using a Strontium Titanate Transition Layer. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 1825-1833	3.8	26

147	Domain configurations in ferroelectric PbTiO ₃ thin films: The influence of substrate and film thickness. <i>Solid State Ionics</i> , 1995 , 75, 43-48	3.3	29
146	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
145	Nonlinear optical properties of epitaxial lithium tantalate thin films. <i>Journal of Applied Physics</i> , 1995 , 77, 3420-3425	2.5	23
144	The influence of Pt and SrTiO ₃ interlayers on the microstructure of PbTiO ₃ thin films deposited by laser ablation on (001) MgO. <i>Journal of Materials Research</i> , 1995 , 10, 791-794	2.5	23
143	Measurement of the Interfacial Shear Strength of Thin Copper Films on Sapphire by Microindentation Experiments. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 403, 151		
142	Nanostructure and chemistry of a (100)MgO/(100)GaAs interface. <i>Applied Physics Letters</i> , 1994 , 65, 564-566		10
141	TEM study of the structure and chemistry of a diamond/silicon interface. <i>Journal of Materials Research</i> , 1994 , 9, 1566-1572	2.5	22
140	Crystallization of the Nanophase in Silicon Nitrides		3
139	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
138	Determination of fracture toughness and bridging tractions from crack-opening displacement measurements in particulate composites of diamond in zinc sulfide. <i>Acta Metallurgica Et Materialia</i> , 1994 , 42, 65-75		8
137	In situ stress-strain response of small metal particles embedded in a ceramic matrix. <i>Acta Metallurgica Et Materialia</i> , 1994 , 42, 2477-2485		22
136	Electronic Structure and Bonding at Interfaces Between CVD Diamond and Silicon. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 332, 163		1
135	In situ study of MgO on GaAs (001) for integrating thin film ferroelectrics with semiconductors. <i>Ferroelectrics</i> , 1994 , 157, 353-358	0.6	1
134	Orientation control of KNbO ₃ thin films deposited by laser ablation on MgO (100) using SrTiO ₃ transition layers. <i>Ferroelectrics</i> , 1994 , 152, 55-60	0.6	3
133	Growth of epitaxial lithium tantalate on sapphire by chemical beam epitaxy from lithium hexaethoxy-tantalate. <i>Ferroelectrics</i> , 1994 , 152, 7-12	0.6	5
132	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
131	BaSi ₂ and thin film alkaline earth silicides on silicon. <i>Applied Physics Letters</i> , 1993 , 63, 2818-2820	3.4	113
130	Superplastic flow in a non-stoichiometric ceramic: Magnesium aluminate spinel. <i>Acta Metallurgica Et Materialia</i> , 1993 , 41, 1229-1235		21

129	Nucleation of Special Orientations During Heteroepitaxial Growth of Diamond on Silicon. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 317, 517		
128	Deposition of Titanium Oxide Films from Metal-Organic Precursor by Electron Cyclotron Resonance Plasma-Assisted Chemical Vapor Deposition. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 335, 117		
127	Model for interface reaction control in superplastic deformation of non-stoichiometric ceramics. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1993 , 166, 89-95	5.3	11
126	Mapping sp ² and sp ³ states of carbon at sub-nanometre spatial resolution. <i>Nature</i> , 1993 , 366, 725-727	50.4	215
125	Reply to Comment on Analysis of the Sintering Pressure. <i>Journal of the American Ceramic Society</i> , 1993 , 76, 1903-1903	3.8	1
124	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
123	The Design of the Interface Phase for Obtaining Thermal Shock Resistance in Silicon Nitride 1993 , 207-221		1
122	First Order Quasi-Phase-Matched Second-Harmonic Generation in LiTaO ₃ Utilizing a Periodic Domain Inversion Created by an External Stress. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 329, 147		
121	Blue Light by Second Harmonic Generation in Epitaxial PbTiO ₃ Thin Film Waveguide. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 329, 153		
120	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
119	Overview no. 100 Scalings in fracture probabilities for a brittle matrix fiber composite. <i>Acta Metallurgica Et Materialia</i> , 1992 , 40, 2813-2828		95
118	Creep fracture experiments with planar sapphire-copper interfaces stressed in tension. <i>Acta Metallurgica Et Materialia</i> , 1992 , 40, 615-624		7
117	The effect of particle size on the thermal conductivity of ZnS/diamond composites. <i>Acta Metallurgica Et Materialia</i> , 1992 , 40, 123-129		300
116	Rate effects in metal-ceramic interface sliding from the periodic film cracking technique. <i>Acta Metallurgica Et Materialia</i> , 1992 , 40, 2269-2280		23
115	Model for the crystallization and sintering of unseeded and seeded boehmite gels. <i>Journal of Materials Science</i> , 1992 , 27, 2251-2257	4.3	15
114	Ultrahigh vacuum chemical vapor deposition of rhodium thin films on clean and TiO ₂ -covered Si(111). <i>Thin Solid Films</i> , 1992 , 208, 172-176	2.2	13
113	Enhancement of Tensile Ductility in Nanograin Superplastic Ceramics Through Control of Interface Chemistry 1992 , 238-247		
112	Superplastic Flow in Ceramic Microfiber Specimens. <i>Materials Research Society Symposia Proceedings</i> , 1991 , 239, 133		1

111	Ultra-high vacuum metalorganic chemical vapor deposition of GaAs thin films onto Si(100) using a single-source precursor. <i>Thin Solid Films</i> , 1991 , 205, 236-240	2.2	5
110	Solution precursor chemical vapor deposition of titanium oxide thin films. <i>Thin Solid Films</i> , 1991 , 204, L13-L17	2.2	66
109	Control of the Microstructure of Alumina/Zirconia Alloys Starting from Inorganic Salts. <i>Journal of the American Ceramic Society</i> , 1991 , 74, 1707-1709	3.8	6
108	Grain Growth in Superplastically Deformed Zinc Sulfide/Diamond Composites. <i>Journal of the American Ceramic Society</i> , 1991 , 74, 1729-1731	3.8	5
107	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
106	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
105	Effect of hot-pressing temperature on the optical transmission of zinc sulfide. <i>Applied Physics Letters</i> , 1991 , 58, 441-443	3.4	21
104	Thin films of transition metals on oxides. <i>Acta Metallurgica Et Materialia</i> , 1991 , 39, 3187-3191		11
103	Microtensile superplasticity in ceramic fibers. <i>Acta Metallurgica Et Materialia</i> , 1991 , 39, 3125-3132		12
102	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
101	A model for subgrain superplastic flow in aluminum alloys. <i>Acta Metallurgica Et Materialia</i> , 1991 , 39, 679-688		16
100	The Influence of Grain Boundary Structure on Strain-Induced Grain Growth During Superplastic Deformation. <i>Materials Research Society Symposia Proceedings</i> , 1990 , 196, 21		3
99	Ion Induced Crystallization and Growth of Nanoscale Grains in Ceramics. <i>Materials Research Society Symposia Proceedings</i> , 1990 , 202, 633		1
98	Phase Formation and Phase Stability in the Al-Ti Thin Film System. <i>Materials Research Society Symposia Proceedings</i> , 1990 , 213, 925		2
97	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
96	Better Sintering through Green-State Deformation Processing. <i>Journal of the American Ceramic Society</i> , 1990 , 73, 2032-2037	3.8	28
95	In-Situ Measurement of Silica-Gel Coating on Particles of Alumina. <i>Journal of the American Ceramic Society</i> , 1990 , 73, 2163-2164	3.8	14
94	Fracture and Stiffness Characteristics of Particulate Composites of Diamond in Zinc Sulfide. <i>Journal of the American Ceramic Society</i> , 1990 , 73, 3074-3080	3.8	16

93	Effect of Diamond Dispersion on the Superplastic Rheology of Zinc Sulfide. <i>Journal of the American Ceramic Society</i> , 1990 , 73, 2213-2216	3.8	11
92	Deformation-induced phase transformation in zinc sulphide. <i>Journal of Materials Science Letters</i> , 1990 , 9, 818-819		14
91	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
90	Control of the mechanical properties of metal-ceramic interfaces through interfacial reactions. <i>Acta Metallurgica Et Materialia</i> , 1990 , 38, 2215-2224		70
89	Autonucleation of cavities in thin ceramic films. <i>Acta Metallurgica</i> , 1989 , 37, 2035-2038		28
88	Measurement of the ultimate shear strength of a metal-ceramic interface. <i>Acta Metallurgica</i> , 1989 , 37, 1265-1270		309
87	Copper on sapphire: Stability of thin films at 0.7 Tm. <i>Acta Metallurgica</i> , 1989 , 37, 2947-2952		65
86	Superplastic Deformation of Zinc Sulfide Near Its Transformation Temperature [1020°C]. <i>Journal of the American Ceramic Society</i> , 1989 , 72, 1792-1796	3.8	31
85	Nucleation of Floccs in Dilute Colloidal Suspensions. <i>Journal of the American Ceramic Society</i> , 1989 , 72, 2148-2153	3.8	7
84	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
83	Shear and Densification of Glass Powder Compacts. <i>Journal of the American Ceramic Society</i> , 1989 , 72, 798-804	3.8	57
82	Type II Magnetic Levitation on Sinter-Forged YBa ₂ Cu ₃ O _x Superconductor. <i>Journal of the American Ceramic Society</i> , 1989 , 72, 846-848	3.8	21
81	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
80	Sintering and Crystallization of Glass at Constant Heating Rates. <i>Journal of the American Ceramic Society</i> , 1989 , 72, 1564-1566	3.8	32
79	Shear deformation and compaction of nickel aluminide powders at elevated temperatures. <i>Acta Metallurgica</i> , 1988 , 36, 1929-1939		8
78	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
77	Sinter-Forging Characteristics of fine-Grained Zirconia. <i>Journal of the American Ceramic Society</i> , 1988 , 71, C-507-C-509	3.8	53
76	Measurement of the Sintering Pressure in Ceramic Films. <i>Journal of the American Ceramic Society</i> , 1988 , 71, 276-280	3.8	22

75	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
74	Spatial Variations in the Sintering Rate of Ordered and Disordered Particle Structures. <i>Journal of the American Ceramic Society</i> , 1988 , 71, C-408-C-410	3.8	17
73	Characterizing Packing Geometry for Better Sintering. <i>Materials and Processing Report</i> , 1988 , 2, 8-9		
72	Hot Isostatic Pressing of Ceramic/Ceramic Composites at Pressures. <i>Advanced Ceramic Materials</i> , 1988 , 3, 122-126		18
71	Sapphire whiskers from boehmite gel seeded with alumina. <i>Journal of Crystal Growth</i> , 1987 , 85, 527-534	4.6	19
70	Liquid-Phase Bonding of Silicon Nitride Ceramics. <i>Journal of the American Ceramic Society</i> , 1987 , 70, C-1058-C-1072	3.8	17
69	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
68	Enhancement of Strength through Sinter Forging. <i>Journal of the American Ceramic Society</i> , 1987 , 70, 514-520	3.8	46
67	Analysis of the Sintering Pressure. <i>Journal of the American Ceramic Society</i> , 1987 , 70, C-210-C-211	3.8	62
66	A model for the evolution of grain size distribution during superplastic deformation. <i>Acta Metallurgica</i> , 1986 , 34, 447-456		37
65	Superplastic Flow in Fine-Grained Alumina. <i>Journal of the American Ceramic Society</i> , 1986 , 69, 135-138	3.8	95
64	Kinetics of Precipitation of Al ₂ O ₃ in Polycrystalline Supersaturated MgO - 2Al ₂ O ₃ Spinel Solid Solution. <i>Journal of the American Ceramic Society</i> , 1986 , 69, 365-373	3.8	26
63	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
62	Shear Deformation and Densification of Powder Compacts. <i>Journal of the American Ceramic Society</i> , 1986 , 69, 499-506	3.8	145
61	Unstable Spreading of a Fluid Inclusion in a Grain Boundary under Normal Stress. <i>Journal of the American Ceramic Society</i> , 1986 , 69, 708-712	3.8	16
60	Role of Shear in the Sintering of Composites 1986 , 27-39		4
59	Suppression of Frothing by Silicon Addition During Oxynitride Glass Synthesis. <i>Journal of the American Ceramic Society</i> , 1985 , 68, C-168-C-170	3.8	6
58	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

57	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
56	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
55	Effect of Silicon Activity on Liquid-Phase Sintering of Nitrogen Ceramics. <i>Journal of the American Ceramic Society</i> , 1985 , 68, C-124-C-126	3.8	6
54	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
53	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
52	Sintering behavior of bi-modal powder compacts. <i>Acta Metallurgica</i> , 1984 , 32, 1003-1019		192
51	Superplastic deformation of an ultrafine grained intermetallic alloy prepared by crystallization of a metallic glass. <i>Acta Metallurgica</i> , 1984 , 32, 1553-1560		7
50	Superplastic Flow in Ceramics Enhanced by a Liquid Phase 1984 , 353-378		7
49	Correlations between cavitation, creep and dilation for multiaxial loading. <i>Acta Metallurgica</i> , 1983 , 31, 29-36		6
48	Thermodynamics of Grain-Boundary Glass Crystallization 1983 , 337-337		
47	CREEP FRACTURE IN CERAMICS CONTAINING SMALL AMOUNTS OF A LIQUID PHASE 1983 , 145-160		
46	Creep in polycrystalline aggregates by matter transport through a liquid phase. <i>Journal of Geophysical Research</i> , 1982 , 87, 4731-4739		292
45	Intergranular creep fracture in aggressive environments. <i>Acta Metallurgica</i> , 1982 , 30, 1259-1268		31
44	Influence of hydrostatic pressure and multiaxial straining on cavitation in a superplastic aluminum alloy. <i>Acta Metallurgica</i> , 1982 , 30, 2043-2053		75
43	Intergranular fracture in bicrystalsII. <i>Acta Metallurgica</i> , 1982 , 30, 505-511		14
42	Creep fracture in ceramics containing small amounts of a liquid phase. <i>Acta Metallurgica</i> , 1982 , 30, 1043-1058		139
41	Limiting Densities for Dense Random Packing of Spheres. <i>Journal of the American Ceramic Society</i> , 1982 , 65, C-19-C-21	3.8	13
40	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

39	Dissolution Kinetics of β -Si ₃ N ₄ in an Mg-Si-O-N Glass. <i>Journal of the American Ceramic Society</i> , 1982 , 65, 270-274	3.8	19
38	A Theoretical Estimate of Solution-Precipitation Creep in MgO-Fluxed Si ₃ N ₄ . <i>Journal of the American Ceramic Society</i> , 1982 , 65, c88-c90	3.8	11
37	Equations for diffusional creep under multiaxial stress states. <i>Scripta Metallurgica</i> , 1981 , 15, 273-274		6
36	Crystallization of small quantities of glass (or a liquid) segregated in grain boundaries. <i>Acta Metallurgica</i> , 1981 , 29, 1993-2000		101
35	Solution-precipitation creep in glass ceramics. <i>Acta Metallurgica</i> , 1981 , 29, 159-166		258
34	Micromechanical modelling of creep using distributed parameters. <i>Acta Metallurgica</i> , 1981 , 29, 283-292		63
33	Grain size distribution effects in superplasticity. <i>Acta Metallurgica</i> , 1981 , 29, 607-616		104
32	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
31	Activation Energies for Densification, Creep, and Grain-Boundary Sliding in Nitrogen Ceramics. <i>Journal of the American Ceramic Society</i> , 1981 , 64, C-143-C-145	3.8	25
30	Kinetics of Dissolution and Crystallization in a β -Spodumene Glass-Ceramic. <i>Journal of the American Ceramic Society</i> , 1981 , 64, 194-200	3.8	12
29	Stress rupture. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1981 , 12, 1291-1302		39
28	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
27	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
26	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
25	Creep crack propagation by cavitation near crack tips. <i>Metal Science</i> , 1980 , 14, 385-394		40
24	Dynamic effects on flow and fracture during isothermal forging of a titanium alloy. <i>Scripta Metallurgica</i> , 1980 , 14, 241-246		13
23	Life Prediction of Tungsten Filaments in Incandescent Lamps. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1978 , 9, 941-946		19
22	Diffusional relaxation of stress concentration at second phase particles. <i>Acta Metallurgica</i> , 1978 , 26, 1551-1558		87

21	Intergranular fracture in bicrystals. <i>Acta Metallurgica</i> , 1978 , 26, 341-349		73
20	Nucleation of cavities at second phase particles in grain boundaries. <i>Acta Metallurgica</i> , 1978 , 26, 995-1006		208
19	Hold-time effects in high temperature fatigue. <i>Acta Metallurgica</i> , 1978 , 26, 1007-1022		56
18	Correction to: Intergranular fracture at elevated temperature <i>Scripta Metallurgica</i> , 1977 , 11, 839-842		61
17	Fracture at elevated temperature. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1977 , 8, 1917-1933		82
16	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
15	Crack Initiation In Grain Boundaries Under Conditions of Steady-State and Cyclic Creep. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 1976 , 98, 132-139	1.8	21
14	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
13	Intergranular fracture at elevated temperature. <i>Acta Metallurgica</i> , 1975 , 23, 653-666		706
12	De-adhesion by the growth of penny-shaped bubbles in an adhesive layer. <i>Philosophical Magazine and Journal</i> , 1975 , 32, 909-922		16
11	Use of the internal friction technique to measure rates of grain boundary sliding. <i>Acta Metallurgica</i> , 1974 , 22, 1469-1474		90
10	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
9	On grain boundary sliding and diffusional creep. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1971 , 2, 1113-1127		989
8	Fabrication of SiCN MEMS structures using microforged molds		1
7	Fabrication process for ultra high aspect ratio polysilazane-derived MEMS		4
6	Generation of Ceramic Layers on Transition Metals via Reaction with SiCN-Precursors. <i>Ceramic Transactions</i> , 73-79	0.1	
5	Tuneable chemistry at the interface and self-healing towards improving structural properties of carbon fiber laminates: a critical review. <i>Nanoscale Advances</i> ,	5.1	1
4	Nucleation of voids at Li-metal/ceramic/electrolyte interfaces. <i>MRS Communications</i> , 1	2.7	3

3	Evaluation of Heat Stability of Si-O-C Fibers Derived from Polymethylsilsesquioxane. <i>Ceramic Transactions</i> ,39-44	0.1	2
2	Micro-Tubular Solid Oxide Fuel Cells with Embedded Current Collector. <i>Ceramic Engineering and Science Proceedings</i> ,15-21	0.1	1
1	Higher conductivity of non-stoichiometric lithium lanthanum zirconate ceramics made by reactive flash synthesis. <i>MRS Communications</i> ,1	2.7	