

Waltraud Kriven

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195
papers

5,791
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38
h-index

69
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204
ext. papers

6,526
ext. citations

3.4
avg, IF

5.86
L-index

#	Paper	IF	Citations
195	Understanding the relationship between geopolymer composition, microstructure and mechanical properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005 , 269, 47-58	5.1	972
194	Iron release from corroded iron pipes in drinking water distribution systems: effect of dissolved oxygen. <i>Water Research</i> , 2004 , 38, 1259-69	12.5	222
193	Formation of Ceramics from Metakaolin-Based Geopolymers. Part II: K-Based Geopolymer. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 607-615	3.8	180
192	Physico-chemical characteristics of corrosion scales in old iron pipes. <i>Water Research</i> , 2001 , 35, 2961-9	12.5	178
191	Polymerized Organic-Inorganic Synthesis of Mixed Oxides. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 556-560	3.8	133
190	Formation of Ceramics from Metakaolin-Based Geopolymers: Part I: Cs-Based Geopolymer. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 1-8	3.8	129
189	Inorganic delivery vector for intravenous injection. <i>Biomaterials</i> , 2004 , 25, 5995-6001	15.6	125
188	Possible Alternative Transformation Tougheners to Zirconia: Crystallographic Aspects. <i>Journal of the American Ceramic Society</i> , 1988 , 71, 1021-1030	3.8	109
187	Synthesis of oxide powders by way of a polymeric steric entrapment precursor route. <i>Journal of Materials Research</i> , 1999 , 14, 3417-3426	2.5	100
186	Atomic Structure of a Cesium Aluminosilicate Geopolymer: A Pair Distribution Function Study. <i>Chemistry of Materials</i> , 2008 , 20, 4768-4776	9.6	95
185	Chemical Synthesis and Characterization of Calcium Aluminate Powders. <i>Journal of the American Ceramic Society</i> , 1994 , 77, 531-539	3.8	90
184	Physical Stabilization of the β -Transformation in Dicalcium Silicate. <i>Journal of the American Ceramic Society</i> , 1992 , 75, 1621-1627	3.8	90
183	Phase Transformations in Dicalcium Silicate: II, TEM Studies of Crystallography, Microstructure, and Mechanisms. <i>Journal of the American Ceramic Society</i> , 1992 , 75, 2407-2419	3.8	89
182	X-Ray pair distribution function analysis of a metakaolin-based, $KAlSi_2O_6 \cdot 5H_2O$ inorganic polymer (geopolymer). <i>Journal of Materials Chemistry</i> , 2008 , 18, 5974		81
181	Crystallization and Densification of Nano-Size Amorphous Cordierite Powder Prepared by a PVA Solution-Polymerization Route. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 2605-2612	3.8	81
180	The tetragonal \rightarrow monoclinic, ferroelastic transformation in yttrium tantalate and effect of zirconia alloying. <i>Acta Materialia</i> , 2014 , 69, 196-202	8.4	75
179	Geopolymer-bamboo composite: A novel sustainable construction material. <i>Construction and Building Materials</i> , 2016 , 123, 501-507	6.7	73

178	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
177	Solid Solution Range and Microstructures of Melt-Grown Mullite. <i>Journal of the American Ceramic Society</i> , 1983 , 66, 649-654	3.8	69
176	Modeling Speciation in Highly Concentrated Alkaline Silicate Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 8899-8908	3.9	68
175	Thermal Expansion of HfO ₂ and ZrO ₂ . <i>Journal of the American Ceramic Society</i> , 2014 , 97, 2213-2222	3.8	64
174	Bio-Resorbable Nanoceramics for Gene and Drug Delivery. <i>MRS Bulletin</i> , 2004 , 29, 33-37	3.2	63
173	Preparation of Portland Cement Components by Poly(vinyl alcohol) Solution Polymerization. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 2049-2055	3.8	61
172	Crystal structure development during devitrification of quenched mullite. <i>Journal of the European Ceramic Society</i> , 2001 , 21, 2541-2562	6	59
171	Fabrication of Structural Leucite Glass-Ceramics from Potassium-Based Geopolymer Precursors. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 2644-2649	3.8	58
170	High-Temperature Properties and Ferroelastic Phase Transitions in Rare-Earth Niobates (LnNbO ₄). <i>Journal of the American Ceramic Society</i> , 2014 , 97, 3307-3319	3.8	57
169	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
168	Elastic constants of yttria (Y ₂ O ₃) monocrystals to high temperatures. <i>Journal of Applied Physics</i> , 2001 , 89, 7791-7796	2.5	51
167	Microstructural and Microchemical Characterization of a Calcium Aluminate-Polymer Composite (MDF Cement). <i>Journal of the American Ceramic Society</i> , 1991 , 74, 1928-1933	3.8	51
166	Crystallization kinetics of yttrium aluminum garnet (Y ₃ Al ₅ O ₁₂). <i>Journal of Materials Research</i> , 2001 , 16, 1795-1805	2.5	50
165	Characterization of Yttrium Phosphate and a Yttrium Phosphate/Yttrium Aluminate Laminate. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 3121-3124	3.8	50
164	Chemical preparation and phase stability of Ca ₂ SiO ₄ and Sr ₂ SiO ₄ powders. <i>Journal of the European Ceramic Society</i> , 1993 , 11, 291-298	6	50
163	Phase Transformations in Dicalcium Silicate: I, Fabrication and Phase Stability of Fine-Grained β Phase. <i>Journal of the American Ceramic Society</i> , 1992 , 75, 2400-2406	3.8	48
162	Elastic Properties of Mullite. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 1025-1028	3.8	46
161	Fracture of multilayer oxide composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1998 , 241, 241-250	5.3	43

160	In Situ Mechanical Properties of Chamotte Particulate Reinforced, Potassium Geopolymer. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 907-915	3.8	42
159	Use of Geopolymeric Cements as a Refractory Adhesive for Metal and Ceramic Joins. <i>Ceramic Engineering and Science Proceedings</i> , 407-413	0.1	42
158	Porous Biphasic Calcium Phosphate Scaffolds from Cuttlefish Bone. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 2362-2370	3.8	39
157	Synthesis and hydration study of Portland cement components prepared by the organic steric entrapment method. <i>Materials and Structures/Materiaux Et Constructions</i> , 2005 , 38, 87-92	3.4	38
156	Powder synthesis of barium titanate and barium orthotitanate via an ethylene glycol complex polymerization route. <i>Journal of Materials Research</i> , 1999 , 14, 3001-3006	2.5	38
155	Martensitic toughening of ceramics. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1990 , 127, 249-255	5.3	38
154	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
153	Quadrupole lamp furnace for high temperature (up to 2050K) synchrotron powder x-ray diffraction studies in air in reflection geometry. <i>Review of Scientific Instruments</i> , 2006 , 77, 093906	1.7	37
152	Crackling noise during failure of alumina under compression: the effect of porosity. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 292202	1.8	36
151	Weakening of Alkali-Activated Metakaolin During Aging Investigated by the Molybdate Method and Infrared Absorption Spectroscopy. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 2585-2590	3.8	36
150	Preparation and Microstructure Characterization of Anodic Spark Deposited Barium Titanate Conversion Layers. <i>Journal of Materials Research</i> , 1999 , 14, 1437-1443	2.5	36
149	Predicting failure: acoustic emission of berlinite under compression. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 275401	1.8	35
148	Microcrack Nucleation in Ceramics Subject to a Phase Transformation. <i>Journal of the American Ceramic Society</i> , 1984 , 67, 626-630	3.8	35
147	Development of mechanical properties in dental resin composite: Effect of filler size and filler aggregation state. <i>Materials Science and Engineering C</i> , 2019 , 101, 274-282	8.3	33
146	Chemical stability, microstructure and mechanical behavior of LaPO ₄ -containing ceramics. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1996 , 210, 123-134	5.3	33
145	A Strong and Damage-Tolerant Oxide Laminate. <i>Journal of the American Ceramic Society</i> , 2005 , 80, 2421-2424	3.8	32
144	Fully reacted high strength geopolymer made with diatomite as a fumed silica alternative. <i>Ceramics International</i> , 2017 , 43, 14784-14790	5.1	28
143	Experimental study of nonlinear acoustic bands and propagating breathers in ordered granular media embedded in matrix. <i>Granular Matter</i> , 2015 , 17, 49-72	2.6	28

142	Analytical Electron Microscopic Studies of Doped Dicalcium Silicates. <i>Journal of the American Ceramic Society</i> , 1988 , 71, 713-719	3.8	28
141	High-entropy, phase-constrained, lanthanide sesquioxide. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 569-576	3.8	28
140	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
139	In-situ determination of the HfO ₂ -Ta ₂ O ₅ -temperature phase diagram up to 3000°C. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 4848-4861	3.8	25
138	In-situ investigation of Hf ₆ Ta ₂ O ₁₇ anisotropic thermal expansion and topotactic, peritectic transformation. <i>Acta Materialia</i> , 2018 , 161, 127-137	8.4	25
137	A polymer solution technique for the synthesis of nano-sized Li ₂ TiO ₃ ceramic breeder powders. <i>Journal of Nuclear Materials</i> , 2008 , 373, 194-198	3.3	24
136	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
135	Highly Porous Geopolymers Through Templating and Surface Interactions. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 2052-2059	3.8	22
134	Influence of pore structure on the strength behavior of particle- and fiber-reinforced metakaolin-based geopolymer composites. <i>Cement and Concrete Composites</i> , 2019 , 104, 103361	8.6	22
133	Complete Elastic Tensor for Mullite (~2.5Al ₂ O ₃ ·SiO ₂) to High Temperatures Measured from Textured Fibers. <i>Journal of the American Ceramic Society</i> , 2002 , 85, 2005-2012	3.8	22
132	Phase Stability of Chemically Derived Enstatite (MgSiO ₃) Powders. <i>Journal of the American Ceramic Society</i> , 1994 , 77, 2625-2631	3.8	22
131	Properties of Geopolymer Composites Reinforced with Basalt Chopped Strand Mat or Woven Fabric. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 1192-1199	3.8	22
130	On the role of deformation twinning in domain reorganization and grain reorientation in ferroelastic crystals. <i>Journal of Materials Research</i> , 1997 , 12, 1771-1776	2.5	21
129	Preparation of Ceramic Powders by a Solution-Polymerization Route Employing PVA Solution. <i>Ceramic Engineering and Science Proceedings</i> , 469-476	0.1	21
128	Mechanical Properties and Microstructure of Ca ₂ SiO ₄ -CaZrO ₃ Composites. <i>Journal of the American Ceramic Society</i> , 1994 , 77, 65-72	3.8	21
127	CTEAS: a graphical-user-interface-based program to determine thermal expansion from high-temperature X-ray diffraction. <i>Journal of Applied Crystallography</i> , 2013 , 46, 550-553	3.8	20
126	A Forming Technique to Produce Spherical Ceramic Beads Using Sodium Alginate as a Precursor Binder Phase. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 3379-3388	3.8	19
125	Interfacial structure and chemistry in a ceramic/polymer composite material. <i>Journal of Materials Research</i> , 1992 , 7, 1545-1552	2.5	19

124	Optimization of Gas Adsorption Porosimetry for Geopolymer Analysis. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 3643-3649	3.8	18
123	Potassium-Based Geopolymer Composites Reinforced with Chopped Bamboo Fibers. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 49-55	3.8	18
122	Microstructure and Microchemistry of Fully-Reacted Geopolymers and Geopolymer Matrix Composites. <i>Ceramic Transactions</i> , 2012 , 227-250	0.1	18
121	Geopolymers: Nanoparticulate, Nanoporous Ceramics Made Under Ambient Conditions. <i>Microscopy and Microanalysis</i> , 2004 , 10, 404-405	0.5	18
120	Toughening of Mullite/Cordierite Laminated Composites by Transformation Weakening of Cristobalite Interphases. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 1521-1528	3.8	18
119	Toughened Oxide Composites Based on Porous Alumina-Platelet Interphases. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 767-774	3.8	18
118	Evolution of mechano-chemistry and microstructure of a calcium aluminate-polymer composite: Part II. Mixing rate effects. <i>Journal of Materials Research</i> , 1996 , 11, 1739-1747	2.5	18
117	A Submicron-Scale Duplex Zirconia and Alumina Composite by Polymer Complexation Processing. <i>Ceramic Engineering and Science Proceedings</i> , 69-76	0.1	18
116	Sodium silicate activated slag-fly ash binders: Part I Processing, microstructure, and mechanical properties. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 2228-2244	3.8	17
115	In Situ Synchrotron X-Ray Diffraction Study of the Cubic to Rhombohedral Phase Transformation in Ln ₆ WO ₁₂ (Ln = Y, Ho, Er, Yb). <i>Journal of the American Ceramic Society</i> , 2013 , 96, 987-994	3.8	17
114	Mullite-Aluminum Phosphate Laminated Composite Fabricated by Tape Casting. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 1962-1964	3.8	17
113	Evolution of mechano-chemistry and microstructure of a calcium aluminate-polymer composite: Part I. Mixing time effects. <i>Journal of Materials Research</i> , 1995 , 10, 1746-1755	2.5	17
112	Mechanical behavior and microstructure of SiC and ceramics. <i>Journal of the European Ceramic Society</i> , 1998 , 18, 51-57	6	16
111	Sintering Behavior of Gehlenite. Part I: Self-Forming, Macro-/Mesoporous Gehlenite Pore-Forming Mechanism, Microstructure, Mechanical, and Physical Properties. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 1760-1773	3.8	16
110	Primary pulse transmission in coupled steel granular chains embedded in PDMS matrix: Experiment and modeling. <i>International Journal of Solids and Structures</i> , 2013 , 50, 3207-3224	3.1	15
109	Indentation-Induced Amorphization in Mullite Single Crystals. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 1821-1822	3.8	15
108	5.9 Geopolymer-Based Composites 2018 , 269-280		15
107	Properties and Microstructure of Molybdenum Disilicide-SiAlON Particulate Ceramic Composites. <i>Journal of the American Ceramic Society</i> , 1997 , 80, 2837-2843	3.8	14

106	Phase Transformations in the High-Temperature Form of Pure and TiO ₂ -Stabilized Ta ₂ O ₅ . <i>Journal of the American Ceramic Society</i> , 2007 , 90, 2947-2953	3.8	14
105	Processing and Characterization of Multiphase Ceramic Composites Part II: Triplex Composites with a Wide Sintering Temperature Range. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 793-798	3.8	14
104	High Temperature Microhardness of Single Crystal Mullite. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 970-972	3.8	14
103	Nanoporosity in Aluminosilicate, Geopolymeric Cements. <i>Microscopy and Microanalysis</i> , 2004 , 10, 590-591	3.5	13
102	X-ray photoelectron spectroscopy studies of bond structure between polyvinyl alcohol and a titanate cross-coupling agent. <i>Journal of Materials Research</i> , 1995 , 10, 1565-1571	2.5	13
101	Laser ablated coatings on ceramic fibers for ceramic matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1995 , 191, 249-256	5.3	13
100	Slag-fly ash and slag-metakaolin binders: Part II Properties of precursors and NMR study of poorly ordered phases. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 3204-3227	3.8	13
99	Phase Transformations in Dicalcium Silicate: III, Effects of Barium on the Stability of Fine-Grained α -L and β -Phases. <i>Journal of the American Ceramic Society</i> , 1993 , 76, 2628-2634	3.8	12
98	Synthesis and Characterization of Silicon Carbide Powders Converted from Metakaolin-Based Geopolymer. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 2521-2530	3.8	12
97	Rice Husk Ash as a Silica Source in a Geopolymer Formulation. <i>Ceramic Engineering and Science Proceedings</i> , 87-101	0.1	12
96	Crystal structure solution for the ABO (A = Zr, Hf; B = Nb, Ta) superstructure. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2019 , 75, 227-234	1.8	11
95	Structural effect of aliovalent doping in lead perovskites. <i>Journal of Solid State Chemistry</i> , 2015 , 225, 359-367	3.3	11
94	Polymer Adhesion to Geopolymer via Silane Coupling Agent Additives. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 3758-3762	3.8	11
93	A curved image-plate detector system for high-resolution synchrotron X-ray diffraction. <i>Journal of Synchrotron Radiation</i> , 2009 , 16, 273-82	2.4	11
92	Sodium silicate activated slag-fly ash binders: Part III Composition of soft gel and calorimetry. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 3175-3190	3.8	11
91	Effect of High Tensile Strength Polypropylene Chopped Fiber Reinforcements on the Mechanical Properties of Sodium Based Geopolymer Composites. <i>Ceramic Engineering and Science Proceedings</i> , 47-56	0.1	11
90	Geopolymer reinforced with E-glass leno weaves. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 2492-2501	3.8	10
89	Wave propagation through alumina-porous alumina laminates. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 197-210	6	10

88	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
87	Geopolymer with Hydrogel Characteristics via Silane Coupling Agent Additives. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 295-302	3.8	10
86	Alumina Region of the Lithium Aluminosilicate System: A New Window for Temperature Ultrastable Materials Design. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 2039-2041	3.8	10
85	In-situ transmission electron microscopy study of phase transformations in KNbO ₃ perovskite. <i>Philosophical Magazine Letters</i> , 1997 , 75, 1-6	1	10
84	Microstructure and Nanoporosity of as-Set Geopolymers. <i>Ceramic Engineering and Science Proceedings</i> , 491-503	0.1	10
83	Stereological Observations of Platelet-Reinforced Mullite- and Zirconia-Matrix Composites. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 3273-3281	3.8	10
82	Shear Induced Transformation in Enstatite. <i>Ceramic Engineering and Science Proceedings</i> , 383-390	0.1	10
81	Potassium Geopolymer Reinforced with Alkali-Treated Figue. <i>Ceramic Engineering and Science Proceedings</i> , 61-78	0.1	10
80	Bonding behavior of Cu/CuO thick film on a low-firing ceramic substrate. <i>Journal of Materials Research</i> , 1997 , 12, 2411-2418	2.5	9
79	Sintering Behavior of Gehlenite, Part II. Microstructure and Mechanical Properties. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 2766-2770	3.8	9
78	Oxide laminated composites with aluminum phosphate (AlPO ₄) and alumina platelets as crack deflecting materials. <i>Composites Part B: Engineering</i> , 2006 , 37, 509-514	10	9
77	Relationship Between the Orthorhombic and Hexagonal Phases in Dy ₂ TiO ₅ . <i>Journal of the American Ceramic Society</i> , 2016 , 99, 3739-3744	3.8	9
76	Effect of Curing Conditions on the Porosity Characteristics of Metakaolin Fly Ash Geopolymers. <i>Ceramic Engineering and Science Proceedings</i> , 11-15	0.1	9
75	Temperature gradients for thermophysical and thermochemical property measurements to 3000 °C for an aerodynamically levitated spheroid. <i>Review of Scientific Instruments</i> , 2019 , 90, 015109	1.7	8
74	Design and fabrication of ceramic beads by the vibration method. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 3587-3594	6	8
73	Synthesis of NaTi ₂ (PO ₄) ₃ by the Inorganic/Organic Steric Entrapment Method and Its Thermal Expansion Behavior. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 3586-3593	3.8	8
72	Sodium Geopolymer Reinforced with Jute Weave. <i>Ceramic Engineering and Science Proceedings</i> , 2015 , 39-60	0.1	8
71	In situ, high-temperature, synchrotron, powder diffraction studies of oxide systems in air, using a thermal-image furnace. <i>Measurement Science and Technology</i> , 2005 , 16, 1291-1298	2	8

70	Crystallography and microstructural studies of phase transformations in the Dy ₂ O ₃ system. <i>Journal of Materials Research</i> , 1998 , 13, 2920-2931	2.5	8
69	Barium Titanate and Barium Orthotitanate Powders Through An Ethylene Glycol Polymerization Route. <i>Ceramic Engineering and Science Proceedings</i> , 11-18	0.1	8
68	Synthetic Aragonite (CaCO ₃) as a Potential Additive in Calcium Phosphate Cements: Evaluation in Tris-Free SBF at 37°C. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 3052-3061	3.8	7
67	Formation and Properties of 2Tb ₂ O ₃ -Al ₂ O ₃ . <i>Journal of the American Ceramic Society</i> , 1988 , 71, C454-C458	3.5	7
66	Formation of Al ₂ Si ₃ N ₄ nanoparticles by carbothermal reduction and nitridation of geopolymers. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 6542-6551	3.8	6
65	Synthesis of LiFePO ₄ powder by the organic-inorganic steric entrapment method. <i>Journal of Materials Research</i> , 2015 , 30, 2133-2143	2.5	6
64	Thermal Expansion of the Orthorhombic Phase in the Ln ₂ TiO ₅ System. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 4096-4101	3.8	6
63	Mullite (3Al ₂ O ₃ -2SiO ₂)-Aluminum Phosphate (AlPO ₄) _x Oxide, Fibrous Monolithic Composites. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 794-803	3.8	6
62	Combustion-synthesized SiAlON reinforced with SiC monofilaments. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1994 , 188, 341-351	5.3	6
61	Rapid, In-Situ, Ultra-High Temperature Investigations of Ceramics using Synchrotron X-Ray Diffraction. <i>Ceramic Engineering and Science Proceedings</i> , 313-324	0.1	6
60	Microstructural damage of Al ₂ O ₃ by high energy density plasma. <i>Acta Materialia</i> , 2017 , 132, 479-490	8.4	5
59	Properties and characterization of alumina platelet reinforced geopolymer composites. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 5178-5185	3.8	5
58	Thermal Expansion of Ln ₆ WO ₁₂ (Ln = Y, Ho, Er, Yb) and Ln ₂ WO ₆ (Ln = Gd, Dy, Ho) by In Situ Synchrotron X-ray Diffraction Study. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 2496-2505	3.8	5
57	Lattice constant prediction of defective rare earth titanate perovskites. <i>Journal of Solid State Chemistry</i> , 2014 , 219, 99-107	3.3	5
56	The effect of 3mol% Y ₂ O ₃ stabilized ZrO ₂ produced by a steric entrapment method on the mechanical and sintering properties of Cr ₃ C ₂ based cermets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 556, 878-884	5.3	5
55	Processing and Characterization of Multiphase Ceramic Composites Part III: Strong, Hard and Tough, High Temperature-Stable Quadruplex and Quintuplex Composites. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 799-805	3.8	5
54	Hot-stage transmission electron microscopy study of phase transformations in hexacelsian (BaAl ₂ Si ₂ O ₈). <i>Journal of Materials Research</i> , 2002 , 17, 1287-1297	2.5	5
53	TEM study of synthetic hillebrandite (Ca ₂ SiO ₄ · H ₂ O). <i>Journal of Materials Research</i> , 1993 , 8, 2948-2953	2.5	5

52	Residual Bi_3N_4 in $\text{O}^?$ Crystals in CeO_2 -Doped $\text{O}^?+\text{SiAlON}$ Ceramics. <i>Journal of the American Ceramic Society</i> , 1994 , 77, 2213-2216	3.8	5
51	Investigation of Plasma-Sprayed Dysprosia Coatings. <i>Journal of the American Ceramic Society</i> , 1989 , 72, 2023-2026	3.8	5
50	Mechanical behavior of K-geopolymers reinforced with silane-coated basalt fibers. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 437-447	3.8	5
49	Humidity Effects on the Completion of Geopolymerization in Dilute Evaporative Slurries. <i>Ceramic Engineering and Science Proceedings</i> , 25-30	0.1	5
48	Crystal structure and thermal expansion of a CsCe_2Cl_7 scintillator. <i>Journal of Solid State Chemistry</i> , 2015 , 227, 142-149	3.3	4
47	Development of a Gas-Fed Plasma Source for Pulsed High-Density Plasma/Material Interaction Studies. <i>IEEE Transactions on Plasma Science</i> , 2014 , 42, 3245-3252	1.3	4
46	Powder diffraction by fixed incident angle reflection using a curved position-sensitive detector. <i>Journal of Applied Crystallography</i> , 2010 , 43, 560-569	3.8	4
45	Creep characteristics of alumina, nickel aluminate spinel, zirconia composites. <i>Journal of Materials Research</i> , 2008 , 23, 556-564	2.5	4
44	Processing and Characterization of Multiphase Ceramic Composites Part I: Duplex Composites Formed In Situ from Solution. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 784-792	3.8	4
43	$\text{SiCf}/\text{O}^?-\text{SiAlON}$ composite: properties and oxidation retained properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1996 , 220, 176-184	5.3	4
42	Bone ash reinforced geopolymer composites. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 2767-2789	3.8	4
41	Acid resistance of metakaolin-based, bamboo fiber geopolymer composites. <i>Construction and Building Materials</i> , 2021 , 302, 124194	6.7	4
40	Interfacial Bonding of Carbon-Coated Glass Fiber Reinforced Cement	258-265	4
39	Ceramic Felt Reinforced Geopolymer Composites. <i>Ceramic Engineering and Science Proceedings</i> , 11-19	0.1	4
38	Amazonian Metakaolin Reactivity for Geopolymer Synthesis. <i>Advances in Materials Science and Engineering</i> , 2019 , 2019, 1-7	1.5	3
37	In Situ Synchrotron X-Ray Diffraction Study of the Rhombohedral-to-HT-Cubic Phase Transformation in $\text{Ln}_6\text{WO}_{12}$ ($\text{Ln} = \text{Y}, \text{Ho}, \text{Er}, \text{Yb}$). <i>Journal of the American Ceramic Society</i> , 2014 , 97, 1256-1263	3.8	3
36	Synthesis and Thermal Expansion of Eu cryptite Powders Produced by the Inorganic/Organic Steric Entrapment Method. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 3087-3091	3.8	3
35	Nanocrystalline NbAl_3 powders and NbAl_3/Al multilayers by laser ablation deposition. <i>Scripta Materialia</i> , 1997 , 9, 75-78		3

34	Experimental study of embedded and non-embedded ordered granular chains under impulsive excitation. <i>Acta Mechanica</i> , 2016 , 227, 2511-2527	2.1	3
33	Relative importance of Al(V) and reinforcement to the flexural strength of geopolymer composites. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 3452-3460	3.8	3
32	Amorphous self-healed, chopped basalt fiber-reinforced, geopolymer composites. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 3443-3451	3.8	3
31	Mixed Alkali Regional Metakaolin-Based Geopolymer. <i>Ceramic Engineering and Science Proceedings</i> , 2017 , 123-133	0.1	2
30	Properties of Cork Particle Reinforced Sodium Geopolymer Composites. <i>Ceramic Engineering and Science Proceedings</i> , 2017 , 79-82	0.1	2
29	Reply to comments: In-situ determination of the HfO ₂ -Ta ₂ O ₅ -temperature phase diagram up to 3000°C. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 7028-7030	3.8	2
28	Bamboo-Geopolymer Composite: A Preliminary Study. <i>Ceramic Engineering and Science Proceedings</i> , 2017 , 135-143	0.1	2
27	Thermal Properties and Phase Transition of 2ZrO ₂ ?P ₂ O ₅ Studied by In Situ Synchrotron X-ray Diffraction. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 1292-1299	3.8	2
26	A transmission electron microscopy study on the decomposition of synthetic hillebrandite (Ca ₂ SiO ₄ · 2H ₂ O). <i>Journal of Materials Research</i> , 1995 , 10, 3084-3095	2.5	2
25	In Situ Transmission Electron Microscopy (TEM) Investigation of Fracture Mechanisms in a Calcium Aluminate MDF Cement.. <i>Materials Research Society Symposia Proceedings</i> , 1991 , 245, 283		2
24	Application of Ultramicrotomy to Tem Specimen Preparation of Particulate Inclusion and Composite Materials. <i>Materials Research Society Symposia Proceedings</i> , 1991 , 254, 271		2
23	Tailorable thermal expansion in leucite-pollucite materials derived from geopolymers for environmental barrier coatings. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 3397-3410	3.8	2
22	A new class of entropy stabilized oxides: Commensurately modulated A ₆ B ₂ O ₁₇ (A ²⁺ [Zr, Hf; B ⁵⁺ [Nb, Ta) structures. <i>Scripta Materialia</i> , 2021 , 204, 114139	5.6	2
21	In Situ Carbothermal Reduction/Nitridation Carbon-Nano Powder Added Geopolymer Composites. <i>Ceramic Engineering and Science Proceedings</i> , 15-28	0.1	2
20	Properties Of Granite Powder Reinforced Potassium Geopolymer. <i>Ceramic Engineering and Science Proceedings</i> , 1-10	0.1	2
19	Characterization of Tetragonal-Monoclinic, Ferroelastic Transformation and Domain Boundaries in Zirconia-Alloyed Yttrium Tantalate. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1930-1931	0.5	1
18	Microstructure characterization of oxide coatings deposited by pulsed excimer laser ablation. <i>Journal of Materials Research</i> , 2003 , 18, 1623-1630	2.5	1
17	Fibrous monoliths of mullite-AlPO ₄ and alumina/YAG-alumina platelets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 380, 237-244	5.3	1

16	Microstructure and indentation fracture of dysprosium niobate. <i>Journal of Materials Research</i> , 2005 , 20, 1422-1427	2.5	1
15	Electrosynthesis and Microstructural Characterization of Anodic VOx Films. <i>Journal of Materials Research</i> , 2000 , 15, 1483-1489	2.5	1
14	Preparation and Hydration Kinetics of Pure CaAl ₂ O ₄ . <i>Materials Research Society Symposia Proceedings</i> , 1991 , 245, 199		1
13	Directions of zero thermal expansion and the peritectic transformation in HfTiO ₄ . <i>Acta Materialia</i> , 2020 , 200, 187-199	8.4	1
12	Thermo-Mechanical Response of a Hot Surface Ignition Device under Aircraft Compression Ignition Engine Conditions 2021 ,		1
11	Geopolymers and Geopolymer-Derived Composites 2021 , 424-438		1
10	The Ageing Process of Alkali Activated Metakaolin. <i>Ceramic Transactions</i> , 315-324	0.1	1
9	Amorphous self-glazed, chopped basalt fiber reinforced, geopolymer-based composites. <i>International Journal of Applied Ceramic Technology</i> , 2021 , 18, 1097-1105	2	0
8	Thermal expansion and phase transformation in the rare earth di-titanate (RTiO) system. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2021 , 77, 397-407	1.8	0
7	Effect of Alkali Cations on the Polycondensation Reaction. <i>Ceramic Engineering and Science Proceedings</i> , 2017 , 61-68	0.1	
6	Strength Improvements in Clay-Based Ceramic Reinforced with Discontinuous Basalt Fiber. <i>Ceramic Engineering and Science Proceedings</i> , 2017 , 227-233	0.1	
5	MICA Platelet-Reinforced Geopolymer Composites. <i>Ceramic Engineering and Science Proceedings</i> , 2017 , 13-20	0.1	
4	MICROSTRUCTURE AND FLEXURE STRENGTHS OF DOLOMITE PARTICULATE- REINFORCED GEOPOLYMER COMPOSITES. <i>Ceramic Engineering and Science Proceedings</i> , 2019 , 171-181	0.1	
3	TEM Characterization of Pseudotetragonal Mullite. <i>Microscopy and Microanalysis</i> , 2001 , 7, 426-427	0.5	
2	Microstructure and Wear Characterization of Selflubricating Al ₂ O ₃ - MoS ₂ Composite Ceramic Coatings. <i>Materials Research Society Symposia Proceedings</i> , 1988 , 140, 369		
1	Investigations on Growth of Textured and Single Crystal Oxide Fibers Using a Quadrupole Lamp Furnace	51-58	