

Waltraud Kriven

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.

195
papers

5,791
citations

38
h-index

69
g-index

204
ext. papers

6,526
ext. citations

3.4
avg, IF

5.86
L-index

#	Paper	IF	Citations
195	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
194	Amorphous self-glazed, chopped basalt fiber reinforced, geopolymer-based composites. <i>International Journal of Applied Ceramic Technology</i> , 2021 , 18, 1097-1105	2	0
193	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
192	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
191	Bone ash reinforced geopolymer composites. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 2767-2789	3.8	4
190	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
189	Amorphous self-healed, chopped basalt fiber-reinforced, geopolymer composites. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 3443-3451	3.8	3
188	Thermo-Mechanical Response of a Hot Surface Ignition Device under Aircraft Compression Ignition Engine Conditions 2021 ,		1
187	Acid resistance of metakaolin-based, bamboo fiber geopolymer composites. <i>Construction and Building Materials</i> , 2021 , 302, 124194	6.7	4
186	A new class of entropy stabilized oxides: Commensurately modulated A ₆ B ₂ O ₁₇ (A ²⁺ =Zr, Hf; B ³⁺ =Nb, Ta) structures. <i>Scripta Materialia</i> , 2021 , 204, 114139	5.6	2
185	Geopolymers and Geopolymer-Derived Composites 2021 , 424-438		1
184	Properties and characterization of alumina platelet reinforced geopolymer composites. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 5178-5185	3.8	5
183	Directions of zero thermal expansion and the peritectic transformation in HfTiO ₄ . <i>Acta Materialia</i> , 2020 , 200, 187-199	8.4	1
182	High-entropy, phase-constrained, lanthanide sesquioxide. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 569-576	3.8	28
181	Formation of β -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
180	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
179	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

178	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
177	Amazonian Metakaolin Reactivity for Geopolymer Synthesis. <i>Advances in Materials Science and Engineering</i> , 2019 , 2019, 1-7	1.5	3
176	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
175	MICROSTRUCTURE AND FLEXURE STRENGTHS OF DOLOMITE PARTICULATE- REINFORCED GEOPOLYMER COMPOSITES. <i>Ceramic Engineering and Science Proceedings</i> , 2019 , 171-181	0.1	
174	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
173	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
172	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
171	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
170	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
169	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
168	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
167	5.9 Geopolymer-Based Composites 2018 , 269-280		15
166	Effect of Alkali Cations on the Polycondensation Reaction. <i>Ceramic Engineering and Science Proceedings</i> , 2017 , 61-68	0.1	
165	Mixed Alkali Regional Metakaolin-Based Geopolymer. <i>Ceramic Engineering and Science Proceedings</i> , 2017 , 123-133	0.1	2
164	Geopolymer reinforced with E-glass leno weaves. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 2492-2501	3.8	10
163	Microstructural damage of Al ₂ O ₃ by high energy density plasma. <i>Acta Materialia</i> , 2017 , 132, 479-490	8.4	5
162	Strength Improvements in Clay-Based Ceramic Reinforced with Discontinuous Basalt Fiber. <i>Ceramic Engineering and Science Proceedings</i> , 2017 , 227-233	0.1	
161	MICA Platelet-Reinforced Geopolymer Composites. <i>Ceramic Engineering and Science Proceedings</i> , 2017 , 13-20	0.1	

160	Properties of Cork Particle Reinforced Sodium Geopolymer Composites. <i>Ceramic Engineering and Science Proceedings</i> , 2017 , 79-82	0.1	2
159	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
158	Fully reacted high strength geopolymer made with diatomite as a fumed silica alternative. <i>Ceramics International</i> , 2017 , 43, 14784-14790	5.1	28
157	Potassium-Based Geopolymer Composites Reinforced with Chopped Bamboo Fibers. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 49-55	3.8	18
156	Bamboo-Geopolymer Composite: A Preliminary Study. <i>Ceramic Engineering and Science Proceedings</i> , 2017 , 135-143	0.1	2
155	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
154	Geopolymer-bamboo composite [A novel sustainable construction material. <i>Construction and Building Materials</i> , 2016 , 123, 501-507	6.7	73
153	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
152	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
151	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
150	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
149	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
148	Experimental study of embedded and non-embedded ordered granular chains under impulsive excitation. <i>Acta Mechanica</i> , 2016 , 227, 2511-2527	2.1	3
147	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
146	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
145	Design and fabrication of ceramic beads by the vibration method. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 3587-3594	6	8
144	Crystal structure and thermal expansion of a CsCe ₂ Cl ₇ scintillator. <i>Journal of Solid State Chemistry</i> , 2015 , 227, 142-149	3.3	4
143	Highly Porous Geopolymers Through Templating and Surface Interactions. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 2052-2059	3.8	22

142	Wave propagation through alumina-porous alumina laminates. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 197-210	6	10
141	Synthesis of LiFePO ₄ powder by the organic/organic steric entrapment method. <i>Journal of Materials Research</i> , 2015 , 30, 2133-2143	2.5	6
140	Sodium Geopolymer Reinforced with Jute Weave. <i>Ceramic Engineering and Science Proceedings</i> , 2015 , 39-60	0.1	8
139	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
138	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
137	Structural effect of aliovalent doping in lead perovskites. <i>Journal of Solid State Chemistry</i> , 2015 , 225, 359-367	3.3	11
136	Thermal Expansion of HfO ₂ and ZrO ₂ . <i>Journal of the American Ceramic Society</i> , 2014 , 97, 2213-2222	3.8	64
135	Thermal Expansion of Ln ₆ WO ₁₂ (Ln = Y, Ho, Er, Yb) and Ln ₂ WO ₆ (Ln = Gd, Dy, Ho) In Situ Synchrotron X-ray Diffraction Study. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 2496-2505	3.8	5
134	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
133	Lattice constant prediction of defective rare earth titanate perovskites. <i>Journal of Solid State Chemistry</i> , 2014 , 219, 99-107	3.3	5
132	In Situ Synchrotron X-Ray Diffraction Study of the Rhombohedral-to-HT-Cubic Phase Transformation in Ln ₆ WO ₁₂ (Ln = Y, Ho, Er, Yb). <i>Journal of the American Ceramic Society</i> , 2014 , 97, 1256-1263	3.8	3
131	The tetragonal/monoclinic, ferroelastic transformation in yttrium tantalate and effect of zirconia alloying. <i>Acta Materialia</i> , 2014 , 69, 196-202	8.4	75
130	Predicting failure: acoustic emission of berlinite under compression. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 275401	1.8	35
129	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
128	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
127	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
126	Synthesis and Thermal Expansion of Eucriptite Powders Produced by the Inorganic/Organic Steric Entrapment Method. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 3087-3091	3.8	3
125	Geopolymer with Hydrogel Characteristics via Silane Coupling Agent Additives. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 295-302	3.8	10

124	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
123	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
122	Optimization of Gas Adsorption Porosimetry for Geopolymer Analysis. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 3643-3649	3.8	18
121	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
120	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
119	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
118	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
117	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
116	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
115	Polymer Adhesion to Geopolymer via Silane Coupling Agent Additives. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 3758-3762	3.8	11
114	Microstructure and Microchemistry of Fully-Reacted Geopolymers and Geopolymer Matrix Composites. <i>Ceramic Transactions</i> , 2012 , 227-250	0.1	18
113	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
112	Porous Biphasic Calcium Phosphate Scaffolds from Cuttlefish Bone. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 2362-2370	3.8	39
111	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
110	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
109	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
108	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
107	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

106	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
105	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
104	Atomic Structure of a Cesium Aluminosilicate Geopolymer: A Pair Distribution Function Study. <i>Chemistry of Materials</i> , 2008 , 20, 4768-4776	9.6	95
103	Creep characteristics of alumina, nickel aluminate spinel, zirconia composites. <i>Journal of Materials Research</i> , 2008 , 23, 556-564	2.5	4
102	A polymer solution technique for the synthesis of nano-sized Li_2TiO_3 ceramic breeder powders. <i>Journal of Nuclear Materials</i> , 2008 , 373, 194-198	3.3	24
101	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
100	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
99	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
98	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
97	Phase Transformations in the High-Temperature Form of Pure and TiO_2 -Stabilized Ta_2O_5 . <i>Journal of the American Ceramic Society</i> , 2007 , 90, 2947-2953	3.8	14
96	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
95	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
94	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
93	Modeling Speciation in Highly Concentrated Alkaline Silicate Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 8899-8908	3.9	68
92	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
91	A Strong and Damage-Tolerant Oxide Laminate. <i>Journal of the American Ceramic Society</i> , 2005 , 80, 2421-2424	3.8	32
90	Elastic Properties of Mullite. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 1025-1028	3.8	46
89	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

88	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
87	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
86	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
85	Microstructure and indentation fracture of dysprosium niobate. <i>Journal of Materials Research</i> , 2005 , 20, 1422-1427	2.5	1
84	Bio-Resorbable Nanoceramics for Gene and Drug Delivery. <i>MRS Bulletin</i> , 2004 , 29, 33-37	3.2	63
83	Geopolymers: Nanoparticulate, Nanoporous Ceramics Made Under Ambient Conditions. <i>Microscopy and Microanalysis</i> , 2004 , 10, 404-405	0.5	18
82	Polymerized Organic-Inorganic Synthesis of Mixed Oxides. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 556-560	3.8	133
81	Mullite (3Al ₂ O ₃ ·2SiO ₂)/Aluminum Phosphate (AlPO ₄) Oxide, Fibrous Monolithic Composites. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 794-803	3.8	6
80	High Temperature Microhardness of Single Crystal Mullite. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 970-972	3.8	14
79	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
78	Inorganic delivery vector for intravenous injection. <i>Biomaterials</i> , 2004 , 25, 5995-6001	15.6	125
77	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
76	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
75	Nanoporosity in Aluminosilicate, Geopolymeric Cements. <i>Microscopy and Microanalysis</i> , 2004 , 10, 590-591	0.5	13
74	Microstructure characterization of oxide coatings deposited by pulsed excimer laser ablation. <i>Journal of Materials Research</i> , 2003 , 18, 1623-1630	2.5	1
73	Indentation-Induced Amorphization in Mullite Single Crystals. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 1821-1822	3.8	15
72	Mullite/Aluminum Phosphate Laminated Composite Fabricated by Tape Casting. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 1962-1964	3.8	17
71	Complete Elastic Tensor for Mullite (~2.5Al ₂ O ₃ ·3SiO ₂) to High Temperatures Measured from Textured Fibers. <i>Journal of the American Ceramic Society</i> , 2002 , 85, 2005-2012	3.8	22

70	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
69	Crystal structure development during devitrification of quenched mullite. <i>Journal of the European Ceramic Society</i> , 2001 , 21, 2541-2562	6	59
68	Toughened Oxide Composites Based on Porous Alumina-Platelet Interphases. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 767-774	3.8	18
67	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
66	Physico-chemical characteristics of corrosion scales in old iron pipes. <i>Water Research</i> , 2001 , 35, 2961-9	12.5	178
65	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
64	TEM Characterization of Pseudotetragonal Mullite. <i>Microscopy and Microanalysis</i> , 2001 , 7, 426-427	0.5	
63	Electrosynthesis and Microstructural Characterization of Anodic VO _x Films. <i>Journal of Materials Research</i> , 2000 , 15, 1483-1489	2.5	1
62	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
61	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
60	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
59	Mechanical behavior and microstructure of SiC and ceramics. <i>Journal of the European Ceramic Society</i> , 1998 , 18, 51-57	6	16
58	Fracture of multilayer oxide composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1998 , 241, 241-250	5.3	43
57	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
56	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
55	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
54	In-situ transmission electron microscopy study of phase transformations in KNbO ₃ perovskite. <i>Philosophical Magazine Letters</i> , 1997 , 75, 1-6	1	10
53	Nanocrystalline NbAl ₃ powders and NbAl ₃ /Al multilayers by laser ablation deposition. <i>Scripta Materialia</i> , 1997 , 9, 75-78		3

52	Properties and Microstructure of Molybdenum Disilicide α -SiAlON Particulate Ceramic Composites. <i>Journal of the American Ceramic Society</i> , 1997 , 80, 2837-2843	3.8	14
51	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
50	SiCf/O α -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
49	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
48	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
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