

# Waltraud Kriven

## List of Publications by Year in descending order

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185  
papers

7,506  
citations

57758

44  
h-index

64796

79  
g-index

204  
all docs

204  
docs citations

204  
times ranked

5493  
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding the relationship between geopolymer composition, microstructure and mechanical properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 269, 47-58.	4.7	1,274
2	Iron release from corroded iron pipes in drinking water distribution systems: effect of dissolved oxygen. <i>Water Research</i> , 2004, 38, 1259-1269.	11.3	282
3	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	228
4	Physico-chemical characteristics of corrosion scales in old iron pipes. <i>Water Research</i> , 2001, 35, 2961-2969.	11.3	214
5	Polymerized Organic-Inorganic Synthesis of Mixed Oxides. <i>Journal of the American Ceramic Society</i> , 1999, 82, 556-560.	3.8	160
6	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	146
7	Inorganic delivery vector for intravenous injection. <i>Biomaterials</i> , 2004, 25, 5995-6001.	11.4	135
8	Possible Alternative Transformation Tougheners to Zirconia: Crystallographic Aspects. <i>Journal of the American Ceramic Society</i> , 1988, 71, 1021-1030.	3.8	123
9	Synthesis of oxide powders by way of a polymeric steric entrapment precursor route. <i>Journal of Materials Research</i> , 1999, 14, 3417-3426.	2.6	122
10	The tetragonal-monoclinic, ferroelastic transformation in yttrium tantalate and effect of zirconia alloying. <i>Acta Materialia</i> , 2014, 69, 196-202.	7.9	112
11	Chemical Synthesis and Characterization of Calcium Aluminate Powders. <i>Journal of the American Ceramic Society</i> , 1994, 77, 531-539.	3.8	108
12	Thermal Expansion of $\text{HfO}_2$ and $\text{ZrO}_2$ . <i>Journal of the American Ceramic Society</i> , 2014, 97, 2213-2222.	3.8	108
13	Physical Stabilization of the beta gamma Transformation in Dicalcium Silicate. <i>Journal of the American Ceramic Society</i> , 1992, 75, 1621-1627.	3.8	106
14	Atomic Structure of a Cesium Aluminosilicate Geopolymer: A Pair Distribution Function Study. <i>Chemistry of Materials</i> , 2008, 20, 4768-4776.	6.7	106
15	Geopolymer-bamboo composite – A novel sustainable construction material. <i>Construction and Building Materials</i> , 2016, 123, 501-507.	7.2	103
16	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	102
17	X-Ray pair distribution function analysis of a metakaolin-based, $\text{KAlSi}_2\text{O}_6 \cdot 5.5\text{H}_2\text{O}$ inorganic polymer (geopolymer). <i>Journal of Materials Chemistry</i> , 2008, 18, 5974.	6.7	99
18	Crystallization and Densification of Nano-Size Amorphous Cordierite Powder Prepared by a PVA Solution-Polymerization Route. <i>Journal of the American Ceramic Society</i> , 1998, 81, 2605-2612.	3.8	96

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19	Emergence and Extinction of a New Phase During On-Off Experiments Related to Flash Sintering of $\text{3YSZ}$ . Journal of the American Ceramic Society, 2015, 98, 1493-1497.	3.8	91
20	Modeling Speciation in Highly Concentrated Alkaline Silicate Solutions. Industrial & Engineering Chemistry Research, 2005, 44, 8899-8908.	3.7	86
21	High-Temperature Properties and Ferroelastic Phase Transitions in Rare-Earth Niobates ( $\text{LnNbO}_4$ ). Journal of the American Ceramic Society, 2014, 97, 3307-3319.	3.8	82
22	Preparation of Portland Cement Components by Poly(vinyl alcohol) Solution Polymerization. Journal of the American Ceramic Society, 1999, 82, 2049-2055.	3.8	77
23	High-Entropy, phase-constrained, lanthanide sesquioxide. Journal of the American Ceramic Society, 2020, 103, 569-576.	3.8	77
24	In-situ measurements of lattice expansion related to defect generation during flash sintering. Journal of the American Ceramic Society, 2017, 100, 4965-4970.	3.8	76
25	In-situ determination of the $\text{HfO}_2$ - $\text{Ta}_2\text{O}_5$ temperature phase diagram up to 3000°C. Journal of the American Ceramic Society, 2019, 102, 4848-4861.	3.8	76
26	Bio-Resorbable Nanoceramics for Gene and Drug Delivery. MRS Bulletin, 2004, 29, 33-37.	3.5	71
27	Solid Solution Range and Microstructures of Melt-Grown Mullite. Journal of the American Ceramic Society, 1983, 66, 649-654.	3.8	69
28	Development of mechanical properties in dental resin composite: Effect of filler size and filler aggregation state. Materials Science and Engineering C, 2019, 101, 274-282.	7.3	67
29	Crystal structure development during devitrification of quenched mullite. Journal of the European Ceramic Society, 2001, 21, 2541-2562.	5.7	65
30	Fabrication of Structural Leucite Glass-Ceramics from Potassium-Based Geopolymer Precursors. Journal of the American Ceramic Society, 2010, 93, 2644-2649.	3.8	64
31	Chemical preparation and phase stability of $\text{Ca}_2\text{SiO}_4$ and $\text{Sr}_2\text{SiO}_4$ powders. Journal of the European Ceramic Society, 1993, 11, 291-298.	5.7	60
32	Microstructural and Microchemical Characterization of a Calcium Aluminate-Polymer Composite (MDF Cement). Journal of the American Ceramic Society, 1991, 74, 1928-1933.	3.8	57
33	Elastic Properties of Mullite. Journal of the American Ceramic Society, 1998, 81, 1025-1028.	3.8	57
34	Elastic constants of yttria ( $\text{Y}_2\text{O}_3$ ) monocrystals to high temperatures. Journal of Applied Physics, 2001, 89, 7791-7796.	2.5	56
35	Crystallization kinetics of yttrium aluminum garnet ( $\text{Y}_3\text{Al}_5\text{O}_{12}$ ). Journal of Materials Research, 2001, 16, 1795-1805.	2.6	56
36	Characterization of Yttrium Phosphate and a Yttrium Phosphate/Yttrium Aluminate Laminate. Journal of the American Ceramic Society, 1995, 78, 3121-3124.	3.8	55

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37	Phase Transformations in Dicalcium Silicate: I, Fabrication and Phase Stability of Fine-Grained beta Phase. Journal of the American Ceramic Society, 1992, 75, 2400-2406.	3.8	54
38	Synthesis and hydration study of Portland cement components prepared by the organic steric entrapment method. Materials and Structures/Materiaux Et Constructions, 2005, 38, 87-92.	3.1	54
39	<i>In Situ</i> Mechanical Properties of Chamotte Particulate Reinforced, Potassium Geopolymer. Journal of the American Ceramic Society, 2014, 97, 907-915.	3.8	54
40	Porous Biphasic Calcium Phosphate Scaffolds from Cuttlefish Bone. Journal of the American Ceramic Society, 2011, 94, 2362-2370.	3.8	50
41	Use of Geopolymeric Cements as a Refractory Adhesive for Metal and Ceramic Joins. Ceramic Engineering and Science Proceedings, 0, , 407-413.	0.1	48
42	Crackling noise during failure of alumina under compression: the effect of porosity. Journal of Physics Condensed Matter, 2013, 25, 292202.	1.8	48
43	Fully reacted high strength geopolymer made with diatomite as a fumed silica alternative. Ceramics International, 2017, 43, 14784-14790.	4.8	48
44	In-situ investigation of Hf6Ta2O17 anisotropic thermal expansion and topotactic, peritectic transformation. Acta Materialia, 2018, 161, 127-137.	7.9	48
45	Quadrupole lamp furnace for high temperature (up to 2050K) synchrotron powder x-ray diffraction studies in air in reflection geometry. Review of Scientific Instruments, 2006, 77, 093906.	1.3	46
46	Fracture of multilayer oxide composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1998, 241, 241-250.	5.6	45
47	Predicting failure: acoustic emission of berlinite under compression. Journal of Physics Condensed Matter, 2014, 26, 275401.	1.8	44
48	Martensitic toughening of ceramics. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1990, 127, 249-255.	5.6	43
49	Powder synthesis of barium titanate and barium orthotitanate via an ethylene glycol complex polymerization route. Journal of Materials Research, 1999, 14, 3001-3006.	2.6	43
50	Electric field induced texture in titania during experiments related to flash sintering. Journal of the European Ceramic Society, 2016, 36, 257-261.	5.7	43
51	Weakening of Alkali-Activated Metakaolin During Aging Investigated by the Molybdate Method and Infrared Absorption Spectroscopy. Journal of the American Ceramic Society, 2010, 93, 2585-2590.	3.8	42
52	Microcrack Nucleation in Ceramics Subject to a Phase Transformation. Journal of the American Ceramic Society, 1984, 67, 626-630.	3.8	37
53	Preparation and Microstructure Characterization of Anodic Spark Deposited Barium Titanate Conversion Layers. Journal of Materials Research, 1999, 14, 1437-1443.	2.6	36
54	A Strong and Damage-Tolerant Oxide Laminate. Journal of the American Ceramic Society, 1997, 80, 2421-2424.	3.8	34

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55	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	34
56	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.	10.7	34
57	Analytical Electron Microscopic Studies of Doped Dicalcium Silicates. <i>Journal of the American Ceramic Society</i> , 1988, 71, 713-719.	3.8	33
58	Chemical stability, microstructure and mechanical behavior of LaPO <sub>4</sub> -containing ceramics. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1996, 210, 123-134.	5.6	33
59	Experimental study of nonlinear acoustic bands and propagating breathers in ordered granular media embedded in matrix. <i>Granular Matter</i> , 2015, 17, 49-72.	2.2	33
60	Crystal structure solution for the $A_6B_2O_{17}$ ( $A = Zr, Hf$ ; $B = Nb, Ta$ ) superstructure. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2019, 75, 227-234.	1.1	32
61	Alumina and spinel react into single-phase high-alumina spinel in <math>3\text{Å}</math> seconds during flash sintering. <i>Journal of the American Ceramic Society</i> , 2019, 102, 644-653.	3.8	30
62	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	30
63	Potassium-Based Geopolymer Composites Reinforced with Chopped Bamboo Fibers. <i>Journal of the American Ceramic Society</i> , 2017, 100, 49-55.	3.8	29
64	Phase Stability of Chemically Derived Enstatite (MgSiO <sub>3</sub> ) Powders. <i>Journal of the American Ceramic Society</i> , 1994, 77, 2625-2631.	3.8	28
65	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.	4.5	28
66	Highly Porous Geopolymers Through Templating and Surface Interactions. <i>Journal of the American Ceramic Society</i> , 2015, 98, 2052-2059.	3.8	28
67	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	27
68	Complete Elastic Tensor for Mullite ( $2.5Al_2O_3 \cdot SiO_2$ ) to High Temperatures Measured from Textured Fibers. <i>Journal of the American Ceramic Society</i> , 2002, 85, 2005-2012.	3.8	26
69	A polymer solution technique for the synthesis of nano-sized Li <sub>2</sub> TiO <sub>3</sub> ceramic breeder powders. <i>Journal of Nuclear Materials</i> , 2008, 373, 194-198.	2.7	26
70	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	26
71	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	26
72	5.9 Geopolymer-Based Composites. , 2018, , 269-280.		25

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73	Geopolymers: Nanoparticulate, Nanoporous Ceramics Made Under Ambient Conditions. <i>Microscopy and Microanalysis</i> , 2004, 10, 404-405.	0.4	24
74	Mechanical Properties and Microstructure of Ca <sub>2</sub> SiO <sub>4</sub> -CaZrO <sub>3</sub> Composites. <i>Journal of the American Ceramic Society</i> , 1994, 77, 65-72.	3.8	23
75	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.	2.6	23
76	Interfacial structure and chemistry in a ceramic/polymer composite material. <i>Journal of Materials Research</i> , 1992, 7, 1545-1552.	2.6	22
77	Mechanical behavior and microstructure of SiC and ceramics. <i>Journal of the European Ceramic Society</i> , 1998, 18, 51-57.	5.7	22
78	Preparation of Ceramic Powders by a Solution-Polymerization Route Employing PVA Solution. <i>Ceramic Engineering and Science Proceedings</i> , 0, , 469-476.	0.1	22
79	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	22
80	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.	2.6	21
81	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.	2.6	21
82	Optimization of Gas Adsorption Porosimetry for Geopolymer Analysis. <i>Journal of the American Ceramic Society</i> , 2013, 96, 3643-3649.	3.8	21
83	A new class of entropy stabilized oxides: Commensurately modulated A <sub>6</sub> B <sub>2</sub> O <sub>17</sub> (A=Zr, Hf; B=Nb, Ta) structures. <i>Scripta Materialia</i> , 2021, 204, 114139.	5.2	21
84	Toughened Oxide Composites Based on Porous Alumina-Platelet Interphases. <i>Journal of the American Ceramic Society</i> , 2001, 84, 767-774.	3.8	20
85	Toughening of Mullite/Cordierite Laminated Composites by Transformation Weakening of beta-Cristobalite Interphases. <i>Journal of the American Ceramic Society</i> , 2005, 88, 1521-1528.	3.8	20
86	Phase Transformations in the High-Temperature Form of Pure and TiO <sub>2</sub> -Stabilized Ta <sub>2</sub> O <sub>5</sub> . <i>Journal of the American Ceramic Society</i> , 2007, 90, 2947-2953.	3.8	20
87	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	20
88	Acid resistance of metakaolin-based, bamboo fiber geopolymer composites. <i>Construction and Building Materials</i> , 2021, 302, 124194.	7.2	20
89	A Submicron-Scale Duplex Zirconia and Alumina Composite by Polymer Complexation Processing. <i>Ceramic Engineering and Science Proceedings</i> , 0, , 69-76.	0.1	20
90	<i>In Situ</i> Synchrotron X-Ray Diffraction Study of the Cubic to Rhombohedral Phase Transformation in Ln <sub>6</sub> WO <sub>12</sub> (Ln=La, Y, Ho, Er, Yb) <i>Journal of the American Ceramic Society</i> , 2013, 96, 987-994.	3.8	19

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91	Geopolymer reinforced with E-glass leno weaves. Journal of the American Ceramic Society, 2017, 100, 2492-2501.	3.8	19
92	Processing and Characterization of Multiphase Ceramic Composites Part II: Triplex Composites with a Wide Sintering Temperature Range. Journal of the American Ceramic Society, 2008, 91, 793-798.	3.8	18
93	Mullite-Aluminum Phosphate Laminated Composite Fabricated by Tape Casting. Journal of the American Ceramic Society, 2003, 86, 1962-1964.	3.8	17
94	Nanoporosity in Aluminosilicate, Geopolymeric Cements. Microscopy and Microanalysis, 2004, 10, 590-591.	0.4	17
95	Primary pulse transmission in coupled steel granular chains embedded in PDMS matrix: Experiment and modeling. International Journal of Solids and Structures, 2013, 50, 3207-3224.	2.7	17
96	Sodium silicate activated slag-fly ash binders: Part III-Composition of soft gel and calorimetry. Journal of the American Ceramic Society, 2019, 102, 3175-3190.	3.8	17
97	Properties and Microstructure of Molybdenum Disilicide $_{2}$ -SiAlON Particulate Ceramic Composites. Journal of the American Ceramic Society, 1997, 80, 2837-2843.	3.8	16
98	Indentation-Induced Amorphization in Mullite Single Crystals. Journal of the American Ceramic Society, 2003, 86, 1821-1822.	3.8	16
99	Temperature gradients for thermophysical and thermochemical property measurements to 3000 $\text{\AA}$ C for an aerodynamically levitated spheroid. Review of Scientific Instruments, 2019, 90, 015109.	1.3	16
100	X-ray photoelectron spectroscopy studies of bond structure between polyvinyl alcohol and a titanate cross-coupling agent. Journal of Materials Research, 1995, 10, 1565-1571.	2.6	15
101	High Temperature Microhardness of Single Crystal Mullite. Journal of the American Ceramic Society, 2004, 87, 970-972.	3.8	15
102	Properties and characterization of alumina platelet reinforced geopolymer composites. Journal of the American Ceramic Society, 2020, 103, 5178-5185.	3.8	15
103	Microstructure and Nanoporosity of as-Set Geopolymers. Ceramic Engineering and Science Proceedings, 0, , 491-503.	0.1	14
104	Phase Transformations in Dicalcium Silicate: III, Effects of Barium on the Stability of Fine-Grained $\alpha$ 'L and $\beta$ Phases. Journal of the American Ceramic Society, 1993, 76, 2628-2634.	3.8	13
105	Laser ablated coatings on ceramic fibers for ceramic matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1995, 191, 249-256.	5.6	13
106	Structural effect of aliovalent doping in lead perovskites. Journal of Solid State Chemistry, 2015, 225, 359-367.	2.9	13
107	Mechanical behavior of Geopolymers reinforced with silane-coated basalt fibers. Journal of the American Ceramic Society, 2021, 104, 437-447.	3.8	13
108	Sintering Behavior of Gehlenite, Part II. Microstructure and Mechanical Properties. Journal of the American Ceramic Society, 2007, 90, 2766-2770.	3.8	12

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109	Polymer Adhesion to Geopolymer via Silane Coupling Agent Additives. Journal of the American Ceramic Society, 2012, 95, 3758-3762.	3.8	12
110	Bone ash reinforced geopolymer composites. Journal of the American Ceramic Society, 2021, 104, 2767-2779.	3.8	12
111	Amorphous self-healed, chopped basalt fiber-reinforced, geopolymer composites. Journal of the American Ceramic Society, 2021, 104, 3443-3451.	3.8	12
112	Stereological Observations of Platelet-Reinforced Mullite- and Zirconia-Matrix Composites. Journal of the American Ceramic Society, 1996, 79, 3273-3281.	3.8	11
113	Oxide laminated composites with aluminum phosphate (AlPO <sub>4</sub> ) and alumina platelets as crack deflecting materials. Composites Part B: Engineering, 2006, 37, 509-514.	12.0	11
114	A curved image-plate detector system for high-resolution synchrotron X-ray diffraction. Journal of Synchrotron Radiation, 2009, 16, 273-282.	2.4	11
115	Alumina Region of the Lithium Aluminosilicate System: A New Window for Temperature Ultrastable Materials Design. Journal of the American Ceramic Society, 2013, 96, 2039-2041.	3.8	11
116	Geopolymer with Hydrogel Characteristics via Silane Coupling Agent Additives. Journal of the American Ceramic Society, 2014, 97, 295-302.	3.8	11
117	Design and fabrication of ceramic beads by the vibration method. Journal of the European Ceramic Society, 2015, 35, 3587-3594.	5.7	11
118	Wave propagation through alumina-porous alumina laminates. Journal of the European Ceramic Society, 2015, 35, 197-210.	5.7	11
119	Synthesis of NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> by the Inorganic-Organic Steric Entrapment Method and Its Thermal Expansion Behavior. Journal of the American Ceramic Society, 2016, 99, 3586-3593.	3.8	11
120	The Change of X-ray Diffraction Peak Width During <i>in situ</i> Conventional Sintering of Nanoscale Powders. Journal of the American Ceramic Society, 2016, 99, 765-768.	3.8	11
121	In-situstransmission electron microscopy study of phase transformations in KNbO <sub>3</sub> perovskite. Philosophical Magazine Letters, 1997, 75, 1-6.	1.2	10
122	The effect of 3mol% Y <sub>2</sub> O <sub>3</sub> stabilized ZrO <sub>2</sub> produced by a steric entrapment method on the mechanical and sintering properties of Cr <sub>3</sub> C <sub>2</sub> based cermets. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 556, 878-884.	5.6	10
123	Synthesis of LiFePO <sub>4</sub> powder by the organic-inorganic steric entrapment method. Journal of Materials Research, 2015, 30, 2133-2143.	2.6	10
124	Relationship Between the Orthorhombic and Hexagonal Phases in Dy <sub>2</sub> TiO <sub>5</sub> . Journal of the American Ceramic Society, 2016, 99, 3739-3744.	3.8	10
125	Shear Induced Transformation in Enstatite. Ceramic Engineering and Science Proceedings, 0, , 383-390.	0.1	10
126	Formation and Properties of 2Tb <sub>2</sub> O <sub>3</sub> . Al <sub>2</sub> O <sub>3</sub> . Journal of the American Ceramic Society, 1988, 71, C454-C455.	3.8	9



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127	Bonding behavior of Cu/CuO thick film on a low-firing ceramic substrate. Journal of Materials Research, 1997, 12, 2411-2418.	2.6	9
128	Crystallography and microstructural studies of phase transformations in the Dy <sub>2</sub> O <sub>3</sub> system. Journal of Materials Research, 1998, 13, 2920-2931.	2.6	9
129	Barium Titanate and Barium Orthotitanate Powders Through An Ethylene Glycol Polymerization Route. Ceramic Engineering and Science Proceedings, 0, , 11-18.	0.1	9
130	Thermal Expansion of the Orthorhombic Phase in the Ln <sub>2</sub> TiO <sub>5</sub> System. Journal of the American Ceramic Society, 2015, 98, 4096-4101.	3.8	9
131	Formation of $\text{Si}_3\text{N}_4$ nanoparticles by carbothermal reduction and nitridation of geopolymers. Journal of the American Ceramic Society, 2019, 102, 6542-6551.	3.8	9
132	Geopolymers and Geopolymer-Derived Composites. , 2021, , 424-438.		9
133	Interfacial Bonding of Carbon-Coated Glass Fiber Reinforced Cement. , 0, , 258-265.		9
134	In situ, high-temperature, synchrotron, powder diffraction studies of oxide systems in air, using a thermal-image furnace. Measurement Science and Technology, 2005, 16, 1291-1298.	2.6	8
135	Synthetic Aragonite ( $\text{CaCO}_3$ ) as a Potential Additive in Calcium Phosphate Cements: Evaluation in Tris-Free SBF at 37°C. Journal of the American Ceramic Society, 2014, 97, 3052-3061.	3.8	8
136	Microstructural damage of $\text{Al}_2\text{O}_3$ by high energy density plasma. Acta Materialia, 2017, 132, 479-490.	7.9	8
137	Relative importance of Al(V) and reinforcement to the flexural strength of geopolymer composites. Journal of the American Ceramic Society, 2021, 104, 3452-3460.	3.8	8
138	Lattice constant prediction of defective rare earth titanate perovskites. Journal of Solid State Chemistry, 2014, 219, 99-107.	2.9	7
139	Rapid, In-Situ, Ultra-High Temperature Investigations of Ceramics using Synchrotron X-Ray Diffraction. Ceramic Engineering and Science Proceedings, 0, , 313-324.	0.1	7
140	Investigation of Plasma-Sprayed Dysprosia Coatings. Journal of the American Ceramic Society, 1989, 72, 2023-2026.	3.8	6
141	Combustion-synthesized $\text{SiAlON}$ reinforced with SiC monofilaments. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 188, 341-351.	5.6	6
142	Mullite ( $3\text{Al}_2\text{O}_3 \cdot 2\text{SiO}_2$ ) Aluminum Phosphate ( $\text{AlPO}_4$ ), Oxide, Fibrous Monolithic Composites. Journal of the American Ceramic Society, 2004, 87, 794-803.	3.8	6
143	Processing and Characterization of Multiphase Ceramic Composites Part III: Strong, Hard and Tough, High Temperature Stable Quadruplex and Quintuplex Composites. Journal of the American Ceramic Society, 2008, 91, 799-805.	3.8	6
144	Thermal Expansion of $\text{Ln}_2\text{WO}_6$ ( $\text{Ln} = \text{La, Ce, Pr, Nd, Sm, Eu, Gd, Dy, Ho, Er, Yb, Lu}$ ) and $\text{Ln}_2\text{WO}_6$ ( $\text{Ln} = \text{La, Ce, Pr, Nd, Sm, Eu, Gd, Dy, Ho, Er, Yb, Lu}$ )	3.8	6

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145	Crystal structure and thermal expansion of a CsCe <sub>2</sub> Cl <sub>7</sub> scintillator. Journal of Solid State Chemistry, 2015, 227, 142-149.	2.9	6
146	TEM study of synthetic hillebrandite (Ca <sub>2</sub> SiO <sub>4</sub> · H <sub>2</sub> O). Journal of Materials Research, 1993, 8, 2948-2953.	2.6	5
147	Residual alpha-Si <sub>3</sub> N <sub>4</sub> in O' Crystals in CeO <sub>2</sub> -Doped O' + beta' SiAlON Ceramics. Journal of the American Ceramic Society, 1994, 77, 2213-2216.	3.8	5
148	Hot-stage Transmission Electron Microscopy Study of Phase Transformations in Hexacelsian (BaAl <sub>2</sub> Si <sub>2</sub> O <sub>8</sub> ). Journal of Materials Research, 2002, 17, 1287-1297.	2.6	5
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