# 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.

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|---|---|---|---|
| 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. *Journal of the American Ceramic Society*, **2021**, 104, 3397-3410 | 3.8 | 2 |
| 194 | Amorphous self-glazed, chopped basalt fiber reinforced, geopolymer-based composites. *International Journal of Applied Ceramic Technology*, **2021**, 18, 1097-1105 | 2 | 0 |
| 193 | Thermal expansion and phase transformation in the rare earth di-titanate (RTiO) system. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2021**, 77, 397-407 | 1.8 | 0 |
| 192 | Mechanical behavior of K-geopolymers reinforced with silane-coated basalt fibers. *Journal of the American Ceramic Society*, **2021**, 104, 437-447 | 3.8 | 5 |
| 191 | Bone ash reinforced geopolymer composites. *Journal of the American Ceramic Society*, **2021**, 104, 2767-2779 | 3.8 | 4 |
| 190 | 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 | 3 |
| 189 | Amorphous self-healed, chopped basalt fiber-reinforced, geopolymer composites. *Journal of the American Ceramic Society*, **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. *Construction and Building Materials*, **2021**, 302, 124194 | 6.7 | 4 |
| 186 | A new class of entropy stabilized oxides: Commensurately modulated A6B2O17 (A□Zr, Hf; B□Nb, Ta) structures. *Scripta Materialia*, **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. *Journal of the American Ceramic Society*, **2020**, 103, 5178-5185 | 3.8 | 5 |
| 183 | Directions of zero thermal expansion and the peritectic transformation in HfTiO4. *Acta Materialia*, **2020**, 200, 187-199 | 8.4 | 1 |
| 182 | High-entropy, phase-constrained, lanthanide sesquioxide. *Journal of the American Ceramic Society*, **2020**, 103, 569-576 | 3.8 | 28 |
| 181 | Formation of Æ-Si3N4 nanoparticles by carbothermal reduction and nitridation of geopolymers. *Journal of the American Ceramic Society*, **2019**, 102, 6542-6551 | 3.8 | 6 |
| 180 | Temperature gradients for thermophysical and thermochemical property measurements to 3000 °C for an aerodynamically levitated spheroid. *Review of Scientific Instruments*, **2019**, 90, 015109 | 1.7 | 8 |
| 179 | Reply to comments: In-situ determination of the HfO2-Ta2O5-temperature phase diagram up to 3000°C. *Journal of the American Ceramic Society*, **2019**, 102, 7028-7030 | 3.8 | 2 |

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| 178 | 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 | 8.3 | 33 |
| 177 | Amazonian Metakaolin Reactivity for Geopolymer Synthesis. *Advances in Materials Science and Engineering*, **2019**, 2019, 1-7 | 1.5 | 3 |
| 176 | Crystal structure solution for the ABO (A = Zr, Hf; B = Nb, Ta) superstructure. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2019**, 75, 227-234 | 1.8 | 11 |
| 175 | MICROSTRUCTURE AND FLEXURE STRENGTHS OF DOLOMITE PARTICULATE- REINFORCED GEOPOLYMER COMPOSITES. *Ceramic Engineering and Science Proceedings*, **2019**, 171-181 | 0.1 | |
| 174 | Alumina and spinel react into single-phase high-alumina spinel in . *Journal of the American Ceramic Society*, **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. *Cement and Concrete Composites*, **2019**, 104, 103361 | 8.6 | 22 |
| 172 | In-situ determination of the HfO2Ta2O5-temperature phase diagram up to 3000C. *Journal of the American Ceramic Society*, **2019**, 102, 4848-4861 | 3.8 | 25 |
| 171 | Sodium silicate activated slag-fly ash binders: Part IIIComposition of soft gel and calorimetry. *Journal of the American Ceramic Society*, **2019**, 102, 3175-3190 | 3.8 | 11 |
| 170 | Slag-fly ash and slag-metakaolin binders: Part IIProperties of precursors and NMR study of poorly ordered phases. *Journal of the American Ceramic Society*, **2019**, 102, 3204-3227 | 3.8 | 13 |
| 169 | Sodium silicate activated slag-fly ash binders: Part I Processing, microstructure, and mechanical properties. *Journal of the American Ceramic Society*, **2018**, 101, 2228-2244 | 3.8 | 17 |
| 168 | In-situ investigation of Hf6Ta2O17 anisotropic thermal expansion and topotactic, peritectic transformation. *Acta Materialia*, **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. *Ceramic Engineering and Science Proceedings*, **2017**, 61-68 | 0.1 | |
| 165 | Mixed Alkali Regional Metakaolin-Based Geopolymer. *Ceramic Engineering and Science Proceedings*, **2017**, 123-133 | 0.1 | 2 |
| 164 | Geopolymer reinforced with E-glass leno weaves. *Journal of the American Ceramic Society*, **2017**, 100, 2492-2501 | 3.8 | 10 |
| 163 | Microstructural damage of Al2O3 by high energy density plasma. *Acta Materialia*, **2017**, 132, 479-490 | 8.4 | 5 |
| 162 | Strength Improvements in Clay-Based Ceramic Reinforced with Discontinuous Basalt Fiber. *Ceramic Engineering and Science Proceedings*, **2017**, 227-233 | 0.1 | |
| 161 | MICA Platelet-Reinforced Geopolymer Composites. *Ceramic Engineering and Science Proceedings*, **2017**, 13-20 | 0.1 | |

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| 160 | Properties of Cork Particle Reinforced Sodium Geopolymer Composites. *Ceramic Engineering and Science Proceedings*, **2017**, 79-82 | 0.1 | 2 |
| 159 | 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 | 51 |
| 158 | Fully reacted high strength geopolymer made with diatomite as a fumed silica alternative. *Ceramics International*, **2017**, 43, 14784-14790 | 5.1 | 28 |
| 157 | Potassium-Based Geopolymer Composites Reinforced with Chopped Bamboo Fibers. *Journal of the American Ceramic Society*, **2017**, 100, 49-55 | 3.8 | 18 |
| 156 | Bamboo-Geopolymer Composite: A Preliminary Study. *Ceramic Engineering and Science Proceedings*, **2017**, 135-143 | 0.1 | 2 |
| 155 | Synthesis of NaTi2(PO4)3 by the Inorganic□Organic Steric Entrapment Method and Its Thermal Expansion Behavior. *Journal of the American Ceramic Society*, **2016**, 99, 3586-3593 | 3.8 | 8 |
| 154 | Geopolymer-bamboo composite □A novel sustainable construction material. *Construction and Building Materials*, **2016**, 123, 501-507 | 6.7 | 73 |
| 153 | The Change of X-ray Diffraction Peak Width During in situ Conventional Sintering of Nanoscale Powders. *Journal of the American Ceramic Society*, **2016**, 99, 765-768 | 3.8 | 10 |
| 152 | Electric field induced texture in titania during experiments related to flash sintering. *Journal of the European Ceramic Society*, **2016**, 36, 257-261 | 6 | 37 |
| 151 | Broadening of Diffraction Peak Widths and Temperature Nonuniformity During Flash Experiments. *Journal of the American Ceramic Society*, **2016**, 99, 3429-3434 | 3.8 | 24 |
| 150 | Synthesis and Characterization of Silicon Carbide Powders Converted from Metakaolin-Based Geopolymer. *Journal of the American Ceramic Society*, **2016**, 99, 2521-2530 | 3.8 | 12 |
| 149 | Properties of Geopolymer Composites Reinforced with Basalt Chopped Strand Mat or Woven Fabric. *Journal of the American Ceramic Society*, **2016**, 99, 1192-1199 | 3.8 | 22 |
| 148 | Experimental study of embedded and non-embedded ordered granular chains under impulsive excitation. *Acta Mechanica*, **2016**, 227, 2511-2527 | 2.1 | 3 |
| 147 | Relationship Between the Orthorhombic and Hexagonal Phases in Dy2TiO5. *Journal of the American Ceramic Society*, **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. *Journal of the American Ceramic Society*, **2015**, 98, 1493-1497 | 3.8 | 70 |
| 145 | Design and fabrication of ceramic beads by the vibration method. *Journal of the European Ceramic Society*, **2015**, 35, 3587-3594 | 6 | 8 |
| 144 | Crystal structure and thermal expansion of a CsCe2Cl7 scintillator. *Journal of Solid State Chemistry*, **2015**, 227, 142-149 | 3.3 | 4 |
| 143 | Highly Porous Geopolymers Through Templating and Surface Interactions. *Journal of the American Ceramic Society*, **2015**, 98, 2052-2059 | 3.8 | 22 |

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| 142 | Wave propagation through alumina-porous alumina laminates. *Journal of the European Ceramic Society*, **2015**, 35, 197-210 | 6 | 10 |
| 141 | Synthesis of LiFePO4 powder by the organic–inorganic steric entrapment method. *Journal of Materials Research*, **2015**, 30, 2133-2143 | 2.5 | 6 |
| 140 | Sodium Geopolymer Reinforced with Jute Weave. *Ceramic Engineering and Science Proceedings*, **2015**, 39-60 | 0.1 | 8 |
| 139 | Thermal Expansion of the Orthorhombic Phase in the Ln2TiO5 System. *Journal of the American Ceramic Society*, **2015**, 98, 4096-4101 | 3.8 | 6 |
| 138 | Experimental study of nonlinear acoustic bands and propagating breathers in ordered granular media embedded in matrix. *Granular Matter*, **2015**, 17, 49-72 | 2.6 | 28 |
| 137 | Structural effect of aliovalent doping in lead perovskites. *Journal of Solid State Chemistry*, **2015**, 225, 359-367 | 3.3 | 11 |
| 136 | Thermal Expansion of HfO2 and ZrO2. *Journal of the American Ceramic Society*, **2014**, 97, 2213-2222 | 3.8 | 64 |
| 135 | Thermal Expansion of Ln6WO12 (Ln = Y, Ho, Er, Yb) and Ln2WO6 (Ln = Gd, Dy, Ho) by an In Situ Synchrotron X-ray Diffraction Study. *Journal of the American Ceramic Society*, **2014**, 97, 2496-2505 | 3.8 | 5 |
| 134 | In Situ Mechanical Properties of Chamotte Particulate Reinforced, Potassium Geopolymer. *Journal of the American Ceramic Society*, **2014**, 97, 907-915 | 3.8 | 42 |
| 133 | Lattice constant prediction of defective rare earth titanate perovskites. *Journal of Solid State Chemistry*, **2014**, 219, 99-107 | 3.3 | 5 |
| 132 | In Situ Synchrotron X-Ray Diffraction Study of the Rhombohedral-to-HT-Cubic Phase Transformation in Ln6WO12 (Ln = Y, Ho, Er, Yb). *Journal of the American Ceramic Society*, **2014**, 97, 1256-1263 | 3.8 | 3 |
| 131 | The tetragonal–monoclinic, ferroelastic transformation in yttrium tantalate and effect of zirconia alloying. *Acta Materialia*, **2014**, 69, 196-202 | 8.4 | 75 |
| 130 | Predicting failure: acoustic emission of berlinite under compression. *Journal of Physics Condensed Matter*, **2014**, 26, 275401 | 1.8 | 35 |
| 129 | Characterization of Tetragonal-Monoclinic, Ferroelastic Transformation and Domain Boundaries in Zirconia-Alloyed Yttrium Tantalate. *Microscopy and Microanalysis*, **2014**, 20, 1930-1931 | 0.5 | 1 |
| 128 | Development of a Gas-Fed Plasma Source for Pulsed High-Density Plasma/Material Interaction Studies. *IEEE Transactions on Plasma Science*, **2014**, 42, 3245-3252 | 1.3 | 4 |
| 127 | High-Temperature Properties and Ferroelastic Phase Transitions in Rare-Earth Niobates (LnNbO4). *Journal of the American Ceramic Society*, **2014**, 97, 3307-3319 | 3.8 | 57 |
| 126 | Synthesis and Thermal Expansion of Eucryptite Powders Produced by the Inorganic–Organic Steric Entrapment Method. *Journal of the American Ceramic Society*, **2014**, 97, 3087-3091 | 3.8 | 3 |
| 125 | Geopolymer with Hydrogel Characteristics via Silane Coupling Agent Additives. *Journal of the American Ceramic Society*, **2014**, 97, 295-302 | 3.8 | 10 |

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| 124 | Synthetic Aragonite (CaCO3) 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 | 7 |
| 123 | In Situ Synchrotron X-Ray Diffraction Study of the Cubic to Rhombohedral Phase Transformation in Ln6WO12 (Ln□□Y, Ho, Er, Yb). *Journal of the American Ceramic Society*, **2013**, 96, 987-994 | 3.8 | 17 |
| 122 | Optimization of Gas Adsorption Porosimetry for Geopolymer Analysis. *Journal of the American Ceramic Society*, **2013**, 96, 3643-3649 | 3.8 | 18 |
| 121 | A Forming Technique to Produce Spherical Ceramic Beads Using Sodium Alginate as a Precursor Binder Phase. *Journal of the American Ceramic Society*, **2013**, 96, 3379-3388 | 3.8 | 19 |
| 120 | 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 | 3.1 | 15 |
| 119 | CTEAS: a graphical-user-interface-based program to determine thermal expansion from high-temperature X-ray diffraction. *Journal of Applied Crystallography*, **2013**, 46, 550-553 | 3.8 | 20 |
| 118 | Thermal Properties and Phase Transition of 2ZrO2?P2O5 Studied by In Situ Synchrotron X-ray Diffraction. *Journal of the American Ceramic Society*, **2013**, 96, 1292-1299 | 3.8 | 2 |
| 117 | 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 | 10 |
| 116 | Crackling noise during failure of alumina under compression: the effect of porosity. *Journal of Physics Condensed Matter*, **2013**, 25, 292202 | 1.8 | 36 |
| 115 | Polymer Adhesion to Geopolymer via Silane Coupling Agent Additives. *Journal of the American Ceramic Society*, **2012**, 95, 3758-3762 | 3.8 | 11 |
| 114 | Microstructure and Microchemistry of Fully-Reacted Geopolymers and Geopolymer Matrix Composites. *Ceramic Transactions*, **2012**, 227-250 | 0.1 | 18 |
| 113 | The effect of 3mol% Y2O3 stabilized ZrO2 produced by a steric entrapment method on the mechanical and sintering properties of Cr3C2 based cermets. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 556, 878-884 | 5.3 | 5 |
| 112 | Porous Biphasic Calcium Phosphate Scaffolds from Cuttlefish Bone. *Journal of the American Ceramic Society*, **2011**, 94, 2362-2370 | 3.8 | 39 |
| 111 | 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 | 36 |
| 110 | Fabrication of Structural Leucite Glass□Ceramics from Potassium-Based Geopolymer Precursors. *Journal of the American Ceramic Society*, **2010**, 93, 2644-2649 | 3.8 | 58 |
| 109 | Powder diffraction by fixed incident angle reflection using a curved position-sensitive detector. *Journal of Applied Crystallography*, **2010**, 43, 560-569 | 3.8 | 4 |
| 108 | A curved image-plate detector system for high-resolution synchrotron X-ray diffraction. *Journal of Synchrotron Radiation*, **2009**, 16, 273-82 | 2.4 | 11 |
| 107 | Formation of Ceramics from Metakaolin-Based Geopolymers. Part II: K-Based Geopolymer. *Journal of the American Ceramic Society*, **2009**, 92, 607-615 | 3.8 | 180 |

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| 106 | Formation of Ceramics from Metakaolin-Based Geopolymers: Part II Cs-Based Geopolymer. *Journal of the American Ceramic Society*, **2009**, 92, 1-8 | 3.8 | 129 |
| 105 | X-Ray pair distribution function analysis of a metakaolin-based, KAlSi2O6 5.5H2O inorganic polymer (geopolymer). *Journal of Materials Chemistry*, **2008**, 18, 5974 | | 81 |
| 104 | Atomic Structure of a Cesium Aluminosilicate Geopolymer: A Pair Distribution Function Study. *Chemistry of Materials*, **2008**, 20, 4768-4776 | 9.6 | 95 |
| 103 | Creep characteristics of alumina, nickel aluminate spinel, zirconia composites. *Journal of Materials Research*, **2008**, 23, 556-564 | 2.5 | 4 |
| 102 | A polymer solution technique for the synthesis of nano-sized Li2TiO3 ceramic breeder powders. *Journal of Nuclear Materials*, **2008**, 373, 194-198 | 3.3 | 24 |
| 101 | Processing and Characterization of Multiphase Ceramic Composites Part I: Duplex Composites Formed In Situ from Solution. *Journal of the American Ceramic Society*, **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. *Journal of the American Ceramic Society*, **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. *Journal of the American Ceramic Society*, **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. *Journal of the American Ceramic Society*, **2007**, 90, 1760-1773 | 3.8 | 16 |
| 97 | Phase Transformations in the High-Temperature Form of Pure and TiO2-Stabilized Ta2O5. *Journal of the American Ceramic Society*, **2007**, 90, 2947-2953 | 3.8 | 14 |
| 96 | Sintering Behavior of Gehlenite, Part II. Microstructure and Mechanical Properties. *Journal of the American Ceramic Society*, **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. *Review of Scientific Instruments*, **2006**, 77, 093906 | 1.7 | 37 |
| 94 | Oxide laminated composites with aluminum phosphate (AlPO4) and alumina platelets as crack deflecting materials. *Composites Part B: Engineering*, **2006**, 37, 509-514 | 10 | 9 |
| 93 | Modeling Speciation in Highly Concentrated Alkaline Silicate Solutions. *Industrial & Engineering Chemistry Research*, **2005**, 44, 8899-8908 | 3.9 | 68 |
| 92 | Understanding the relationship between geopolymer composition, microstructure and mechanical properties. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2005**, 269, 47-58 | 5.1 | 972 |
| 91 | A Strong and Damage-Tolerant Oxide Laminate. *Journal of the American Ceramic Society*, **2005**, 80, 2421-2424 | 3.8 | 32 |
| 90 | Elastic Properties of Mullite. *Journal of the American Ceramic Society*, **2005**, 81, 1025-1028 | 3.8 | 46 |
| 89 | Crystallization and Densification of Nano-Size Amorphous Cordierite Powder Prepared by a PVA Solution-Polymerization Route. *Journal of the American Ceramic Society*, **2005**, 81, 2605-2612 | 3.8 | 81 |

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| 88 | Toughening of Mullite/Cordierite Laminated Composites by Transformation Weakening of Cristobalite Interphases. *Journal of the American Ceramic Society*, **2005**, 88, 1521-1528 | 3.8 | 18 |
| 87 | 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 | 3.4 | 38 |
| 86 | 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 | 8 |
| 85 | Microstructure and indentation fracture of dysprosium niobate. *Journal of Materials Research*, **2005**, 20, 1422-1427 | 2.5 | 1 |
| 84 | Bio-Resorbable Nanoceramics for Gene and Drug Delivery. *MRS Bulletin*, **2004**, 29, 33-37 | 3.2 | 63 |
| 83 | Geopolymers: Nanoparticulate, Nanoporous Ceramics Made Under Ambient Conditions. *Microscopy and Microanalysis*, **2004**, 10, 404-405 | 0.5 | 18 |
| 82 | Polymerized Organic-Inorganic Synthesis of Mixed Oxides. *Journal of the American Ceramic Society*, **2004**, 82, 556-560 | 3.8 | 133 |
| 81 | Mullite (3Al2O3·2SiO2)/Aluminum Phosphate (AlPO4), Oxide, Fibrous Monolithic Composites. *Journal of the American Ceramic Society*, **2004**, 87, 794-803 | 3.8 | 6 |
| 80 | High Temperature Microhardness of Single Crystal Mullite. *Journal of the American Ceramic Society*, **2004**, 87, 970-972 | 3.8 | 14 |
| 79 | Preparation of Portland Cement Components by Poly(vinyl alcohol) Solution Polymerization. *Journal of the American Ceramic Society*, **2004**, 82, 2049-2055 | 3.8 | 61 |
| 78 | Inorganic delivery vector for intravenous injection. *Biomaterials*, **2004**, 25, 5995-6001 | 15.6 | 125 |
| 77 | Fibrous monoliths of mullite-AlPO4 and alumina/YAG-alumina platelets. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 380, 237-244 | 5.3 | 1 |
| 76 | Iron release from corroded iron pipes in drinking water distribution systems: effect of dissolved oxygen. *Water Research*, **2004**, 38, 1259-69 | 12.5 | 222 |
| 75 | Nanoporosity in Aluminosilicate, Geopolymeric Cements. *Microscopy and Microanalysis*, **2004**, 10, 590-591 | 0.5 | 13 |
| 74 | Microstructure characterization of oxide coatings deposited by pulsed excimer laser ablation. *Journal of Materials Research*, **2003**, 18, 1623-1630 | 2.5 | 1 |
| 73 | Indentation-Induced Amorphization in Mullite Single Crystals. *Journal of the American Ceramic Society*, **2003**, 86, 1821-1822 | 3.8 | 15 |
| 72 | Mullite/Aluminum Phosphate Laminated Composite Fabricated by Tape Casting. *Journal of the American Ceramic Society*, **2003**, 86, 1962-1964 | 3.8 | 17 |
| 71 | Complete Elastic Tensor for Mullite (~2.5Al2O3·SiO2) to High Temperatures Measured from Textured Fibers. *Journal of the American Ceramic Society*, **2002**, 85, 2005-2012 | 3.8 | 22 |

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| 70 | Hot-stage transmission electron microscopy study of phase transformations in hexacelsian (BaAl2Si2O8). *Journal of Materials Research*, **2002**, 17, 1287-1297 | 2.5 | 5 |
| 69 | Crystal structure development during devitrification of quenched mullite. *Journal of the European Ceramic Society*, **2001**, 21, 2541-2562 | 6 | 59 |
| 68 | Toughened Oxide Composites Based on Porous Alumina-Platelet Interphases. *Journal of the American Ceramic Society*, **2001**, 84, 767-774 | 3.8 | 18 |
| 67 | Crystallization kinetics of yttrium aluminum garnet (Y3Al5O12). *Journal of Materials Research*, **2001**, 16, 1795-1805 | 2.5 | 50 |
| 66 | Physico-chemical characteristics of corrosion scales in old iron pipes. *Water Research*, **2001**, 35, 2961-9 | 12.5 | 178 |
| 65 | Elastic constants of yttria (Y2O3) monocrystals to high temperatures. *Journal of Applied Physics*, **2001**, 89, 7791-7796 | 2.5 | 51 |
| 64 | TEM Characterization of Pseudotetragonal Mullite. *Microscopy and Microanalysis*, **2001**, 7, 426-427 | 0.5 | |
| 63 | Electrosynthesis and Microstructural Characterization of Anodic VOx Films. *Journal of Materials Research*, **2000**, 15, 1483-1489 | 2.5 | 1 |
| 62 | Preparation and Microstructure Characterization of Anodic Spark Deposited Barium Titanate Conversion Layers. *Journal of Materials Research*, **1999**, 14, 1437-1443 | 2.5 | 36 |
| 61 | Synthesis of oxide powders by way of a polymeric steric entrapment precursor route. *Journal of Materials Research*, **1999**, 14, 3417-3426 | 2.5 | 100 |
| 60 | Powder synthesis of barium titanate and barium orthotitanate via an ethylene glycol complex polymerization route. *Journal of Materials Research*, **1999**, 14, 3001-3006 | 2.5 | 38 |
| 59 | Mechanical behavior and microstructure of SiC and ceramics. *Journal of the European Ceramic Society*, **1998**, 18, 51-57 | 6 | 16 |
| 58 | Fracture of multilayer oxide composites. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1998**, 241, 241-250 | 5.3 | 43 |
| 57 | Crystallography and microstructural studies of phase transformations in the Dy2O3 system. *Journal of Materials Research*, **1998**, 13, 2920-2931 | 2.5 | 8 |
| 56 | Bonding behavior of Cu/CuO thick film on a low-firing ceramic substrate. *Journal of Materials Research*, **1997**, 12, 2411-2418 | 2.5 | 9 |
| 55 | On the role of deformation twinning in domain reorganization and grain reorientation in ferroelastic crystals. *Journal of Materials Research*, **1997**, 12, 1771-1776 | 2.5 | 21 |
| 54 | In-situ transmission electron microscopy study of phase transformations in KNbO3 perovskite. *Philosophical Magazine Letters*, **1997**, 75, 1-6 | 1 | 10 |
| 53 | Nanocrystalline NbAl3 powders and NbAl3/Al multilayers by laser ablation deposition. *Scripta Materialia*, **1997**, 9, 75-78 | | 3 |

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| 52 | Properties and Microstructure of Molybdenum Disilicide/?-SiAlON Particulate Ceramic Composites. *Journal of the American Ceramic Society*, **1997**, 80, 2837-2843 | 3.8 | 14 |
| 51 | Chemical stability, microstructure and mechanical behavior of LaPO4-containing ceramics. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1996**, 210, 123-134 | 5.3 | 33 |
| 50 | SiCf/O?-SiAlON composite: properties and oxidation retained properties. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1996**, 220, 176-184 | 5.3 | 4 |
| 49 | Stereological Observations of Platelet-Reinforced Mullite- and Zirconia-Matrix Composites. *Journal of the American Ceramic Society*, **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. *Journal of Materials Research*, **1996**, 11, 1739-1747 | 2.5 | 18 |
| 47 | Characterization of Yttrium Phosphate and a Yttrium Phosphate/Yttrium Aluminate Laminate. *Journal of the American Ceramic Society*, **1995**, 78, 3121-3124 | 3.8 | 50 |
| 46 | A transmission electron microscopy study on the decomposition of synthetic hillebrandite (Ca2SiO4 H2O). *Journal of Materials Research*, **1995**, 10, 3084-3095 | 2.5 | 2 |
| 45 | 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 | 2.5 | 13 |
| 44 | Evolution of mechano-chemistry and microstructure of a calcium aluminate-polymer composite: Part I. Mixing time effects. *Journal of Materials Research*, **1995**, 10, 1746-1755 | 2.5 | 17 |
| 43 | Laser ablated coatings on ceramic fibers for ceramic matrix composites. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1995**, 191, 249-256 | 5.3 | 13 |
| 42 | Combustion-synthesized ?-SiAlON reinforced with SiC monofilaments. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1994**, 188, 341-351 | 5.3 | 6 |
| 41 | Phase Stability of Chemically Derived Enstatite (MgSiO3) Powders. *Journal of the American Ceramic Society*, **1994**, 77, 2625-2631 | 3.8 | 22 |
| 40 | Mechanical Properties and Microstructure of Ca2SiO4 aZrO3 Composites. *Journal of the American Ceramic Society*, **1994**, 77, 65-72 | 3.8 | 21 |
| 39 | Chemical Synthesis and Characterization of Calcium Aluminate Powders. *Journal of the American Ceramic Society*, **1994**, 77, 531-539 | 3.8 | 90 |
| 38 | Residual i3N4 in O? Crystals in CeO2-Doped O?+ SiAlON Ceramics. *Journal of the American Ceramic Society*, **1994**, 77, 2213-2216 | 3.8 | 5 |
| 37 | TEM study of synthetic hillebrandite (Ca2SiO4 H2O). *Journal of Materials Research*, **1993**, 8, 2948-2953 | 2.5 | 5 |
| 36 | Chemical preparation and phase stability of Ca2SiO4 and Sr2SiO4 powders. *Journal of the European Ceramic Society*, **1993**, 11, 291-298 | 6 | 50 |
| 35 | Phase Transformations in Dicalcium Silicate: III, Effects of Barium on the Stability of Fine-Grained L and Phases. *Journal of the American Ceramic Society*, **1993**, 76, 2628-2634 | 3.8 | 12 |

| | | | |
|---|---|---|---|
| 34 | Interfacial structure and chemistry in a ceramic/polymer composite material. *Journal of Materials Research*, **1992**, 7, 1545-1552 | 2.5 | 19 |
| 33 | Physical Stabilization of the □Transformation in Dicalcium Silicate. *Journal of the American Ceramic Society*, **1992**, 75, 1621-1627 | 3.8 | 90 |
| 32 | Phase Transformations in Dicalcium Silicate: I, Fabrication and Phase Stability of Fine-Grained □ Phase. *Journal of the American Ceramic Society*, **1992**, 75, 2400-2406 | 3.8 | 48 |
| 31 | Phase Transformations in Dicalcium Silicate: II, TEM Studies of Crystallography, Microstructure, and Mechanisms. *Journal of the American Ceramic Society*, **1992**, 75, 2407-2419 | 3.8 | 89 |
| 30 | In Situ Transmission Electron Microscopy (TEM) Investigation of Fracture Mechanisms in a Calcium Aluminate MDF Cement.. *Materials Research Society Symposia Proceedings*, **1991**, 245, 283 | | 2 |
| 29 | Application of Ultramicrotomy to Tem Specimen Preparation of Particulate Inclusion and Composite Materials. *Materials Research Society Symposia Proceedings*, **1991**, 254, 271 | | 2 |
| 28 | Microstructural and Microchemical Characterization of a Calcium Aluminate□Polymer Composite (MDF Cement). *Journal of the American Ceramic Society*, **1991**, 74, 1928-1933 | 3.8 | 51 |
| 27 | Preparation and Hydration Kinetics of Pure CaAl2O4. *Materials Research Society Symposia Proceedings*, **1991**, 245, 199 | | 1 |
| 26 | Martensitic toughening of ceramics. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1990**, 127, 249-255 | 5.3 | 38 |
| 25 | Investigation of Plasma-Sprayed Dysprosia Coatings. *Journal of the American Ceramic Society*, **1989**, 72, 2023-2026 | 3.8 | 5 |
| 24 | Possible Alternative Transformation Toughened to Zirconia: Crystallographic Aspects. *Journal of the American Ceramic Society*, **1988**, 71, 1021-1030 | 3.8 | 109 |
| 23 | Analytical Electron Microscopic Studies of Doped Dicalcium Silicates. *Journal of the American Ceramic Society*, **1988**, 71, 713-719 | 3.8 | 28 |
| 22 | Formation and Properties of 2Tb2O3□Al2O3. *Journal of the American Ceramic Society*, **1988**, 71, C454-C455 | 3.8 | 7 |
| 21 | Microstructure and Wear Characterization of Selflubricating Al2O3 - MoS2 Composite Ceramic Coatings. *Materials Research Society Symposia Proceedings*, **1988**, 140, 369 | | |
| 20 | Microcrack Nucleation in Ceramics Subject to a Phase Transformation. *Journal of the American Ceramic Society*, **1984**, 67, 626-630 | 3.8 | 35 |
| 19 | Solid Solution Range and Microstructures of Melt-Grown Mullite. *Journal of the American Ceramic Society*, **1983**, 66, 649-654 | 3.8 | 69 |
| 18 | Microstructure and Nanoporosity of as-Set Geopolymers. *Ceramic Engineering and Science Proceedings*,491-503 | 0.1 | 10 |
| 17 | Use of Geopolymeric Cements as a Refractory Adhesive for Metal and Ceramic Joins. *Ceramic Engineering and Science Proceedings*,407-413 | 0.1 | 42 |

| | | | |
|---|---|---|---|
| 16 | Preparation of Ceramic Powders by a Solution-Polymerization Route Employing PVA Solution. *Ceramic Engineering and Science Proceedings*,469-476 | 0.1 | 21 |
| 15 | Barium Titanate and Barium Orthotitanate Powders Through An Ethylene Glycol Polymerization Route. *Ceramic Engineering and Science Proceedings*,11-18 | 0.1 | 8 |
| 14 | Rapid, In-Situ, Ultra-High Temperature Investigations of Ceramics using Synchrotron X-Ray Diffraction. *Ceramic Engineering and Science Proceedings*,313-324 | 0.1 | 6 |
| 13 | A Submicron-Scale Duplex Zirconia and Alumina Composite by Polymer Complexation Processing. *Ceramic Engineering and Science Proceedings*,69-76 | 0.1 | 18 |
| 12 | Shear Induced Transformation in Enstatite. *Ceramic Engineering and Science Proceedings*,383-390 | 0.1 | 10 |
| 11 | Interfacial Bonding of Carbon-Coated Glass Fiber Reinforced Cement258-265 | | 4 |
| 10 | The Ageing Process of Alkali Activated Metakaolin. *Ceramic Transactions*,315-324 | 0.1 | 1 |
| 9 | Effect of Curing Conditions on the Porosity Characteristics of Metakaolin Fly Ash Geopolymers. *Ceramic Engineering and Science Proceedings*,11-15 | 0.1 | 9 |
| 8 | Effect of High Tensile Strength Polypropylene Chopped Fiber Reinforcements on the Mechanical Properties of Sodium Based Geopolymer Composites. *Ceramic Engineering and Science Proceedings*,47-56 | 0.1 | 11 |
| 7 | Humidity Effects on the Completion of Geopolymerization in Dilute Evaporative Slurries. *Ceramic Engineering and Science Proceedings*,25-30 | 0.1 | 5 |
| 6 | In Situ Carbothermal Reduction/Nitridation Carbon-Nano Powder Added Geopolymer Composites. *Ceramic Engineering and Science Proceedings*,15-28 | 0.1 | 2 |
| 5 | Potassium Geopolymer Reinforced with Alkali-Treated Fique. *Ceramic Engineering and Science Proceedings*,61-78 | 0.1 | 10 |
| 4 | Rice Husk Ash as a Silica Source in a Geopolymer Formulation. *Ceramic Engineering and Science Proceedings*,87-101 | 0.1 | 12 |
| 3 | Properties Of Granite Powder Reinforced Potassium Geopolymer. *Ceramic Engineering and Science Proceedings*,1-10 | 0.1 | 2 |
| 2 | Ceramic Felt Reinforced Geopolymer Composites. *Ceramic Engineering and Science Proceedings*,11-19 | 0.1 | 4 |
| 1 | Investigations on Growth of Textured and Single Crystal Oxide Fibers Using a Quadrupole Lamp Furnace51-58 | | |