

# Martin P Harmer

## List of Publications by Year in descending order

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129  
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| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Linking grain boundary structure and composition to microstructure in commercialâ€gradeâ€doped specialty Aluminas. <i>Journal of the American Ceramic Society</i> , 2022, 105, 626.  | 3.8  | 0         |
| 2  | Experimental observations of amorphization in multiple generations of boron carbide. <i>Journal of the American Ceramic Society</i> , 2022, 105, 3008-3029.  | 3.8  | 4         |
| 3  | Effect of Euâ€doping and grain boundary plane on complexion transitions in MgAl <sub>2</sub> O <sub>4</sub> . <i>Journal of the American Ceramic Society</i> , 2021, 104, 4203-4213.                                       | 3.8  | 5         |
| 4  | The influence of grain boundary area on the complexion time-temperature-transformation diagram of Eu-doped magnesium aluminate spinel. <i>Scripta Materialia</i> , 2020, 178, 251-255.                                     | 5.2  | 8         |
| 5  | Grain Boundary Complexion Transitions. <i>Annual Review of Materials Research</i> , 2020, 50, 465-492.   | 9.3  | 96        |
| 6  | Review of grain boundary complexion engineering: Know your boundaries. <i>Journal of the American Ceramic Society</i> , 2019, 102, 778-800.  | 3.8  | 46        |
| 7  | Achieving ultra hard refractory multi-principal element alloys via mechanical alloying. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 763, 138140. | 5.6  | 18        |
| 8  | Dataâ€driven glass/ceramic science research: Insights from the glass and ceramic and data science/informatics communities. <i>Journal of the American Ceramic Society</i> , 2019, 102, 6385-6406.                          | 3.8  | 20        |
| 9  | Surface energies, segregation, and fracture behavior of magnesium aluminate spinel low-index grain boundary planes. <i>Acta Materialia</i> , 2018, 148, 320-329.   | 7.9  | 17        |
| 10 | Observations of grain boundary chemistry variations in a boron carbide processed with oxide additives. <i>Scripta Materialia</i> , 2018, 142, 106-110.   | 5.2  | 23        |
| 11 | Microstructure and fracture toughness of electrodeposited Ni-21â€at.% W alloy thick films. <i>Acta Materialia</i> , 2018, 143, 272-280.  | 7.9  | 34        |
| 12 | Calculation and validation of a grain boundary complexion diagram for Bi-doped Ni. <i>Scripta Materialia</i> , 2017, 130, 165-169.   | 5.2  | 23        |
| 13 | Segregation-induced ordered superstructures at general grain boundaries in a nickel-bismuth alloy. <i>Science</i> , 2017, 358, 97-101.   | 12.6 | 130       |
| 14 | Data analytics using canonical correlation analysis and Monte Carlo simulation. <i>Npj Computational Materials</i> , 2017, 3, .  | 8.7  | 18        |
| 15 | Phase diagram of carbon-nickel-tungsten: A superatom model. <i>Physical Review Materials</i> , 2017, 1, .  | 2.4  | 1         |
| 16 | A Grain Boundary â€œTTTâ€â€“ â€œTribute to Thomasâ€!. <i>Microscopy and Microanalysis</i> , 2016, 22, 1230-1231.   | 0.4  | 0         |
| 17 | Connecting Phase Stability to the Grain Growth Behavior of Ni-W Alloys. <i>Microscopy and Microanalysis</i> , 2016, 22, 270-271.   | 0.4  | 2         |
| 18 | Complexion time-temperature-transformation (TTT) diagrams: Opportunities and challenges. <i>Current Opinion in Solid State and Materials Science</i> , 2016, 20, 316-323.  | 11.5 | 31        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | The influence of oxygen contamination on the thermal stability and hardness of nanocrystalline Ni-W alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 664, 49-57. | 5.6 | 38        |
| 20 | Expanding time-temperature-transformation (TTT) diagrams to interfaces: A new approach for grain boundary engineering. <i>Acta Materialia</i> , 2016, 106, 78-86.   | 7.9 | 73        |
| 21 | Grain boundary segregation in Al-Mn electrodeposits prepared from ionic liquid. <i>Journal of Materials Science</i> , 2016, 51, 438-448.  | 3.7 | 21        |
| 22 | Correlations between microstructure, fracture morphology, and fracture toughness of nanocrystalline Ni-W alloys. <i>Scripta Materialia</i> , 2016, 113, 84-88.  | 5.2 | 23        |
| 23 | Theory and New Applications of <i>i&gt;Ex Situ&lt;/i&gt; Lift Out. <i>Microscopy and Microanalysis</i>, 2015, 21, 1034-1048.</i>  | 0.4 | 27        |
| 24 | Embedding Ba Monolayers and Bilayers in Boron Carbide Nanowires. <i>Scientific Reports</i> , 2015, 5, 16960.  | 3.3 | 6         |
| 25 | Effect of Hf 4+ Concentration on Oxygen Grain-Boundary Diffusion in Alumina. <i>Journal of the American Ceramic Society</i> , 2015, 98, 3346-3351.  | 3.8 | 16        |
| 26 | Microstructure evolution of a Cu and $\hat{\gamma}$ -Al <sub>2</sub> O <sub>3</sub> composite observed by aberration corrected HAADF-STEM. <i>Microscopy and Microanalysis</i> , 2015, 21, 1351-1352.   | 0.4 | 0         |
| 27 | Influence of Complexion Transitions on Microstructure Evolution in Specialty Aluminas. <i>Journal of the American Ceramic Society</i> , 2015, 98, 1347-1355.  | 3.8 | 11        |
| 28 | Anti-thermal behavior of materials. <i>Scripta Materialia</i> , 2015, 103, 1-5.   | 5.2 | 26        |
| 29 | An Order-Disorder Transition in Surface Complexions and Its Influence on Crystal Growth of Boron-Rich Nanostructures. <i>Crystal Growth and Design</i> , 2015, 15, 3547-3551.   | 3.0 | 9         |
| 30 | The critical influence of carbon on the thermal stability of nanocrystalline Ni-W alloys. <i>Scripta Materialia</i> , 2015, 96, 45-48.  | 5.2 | 42        |
| 31 | Grain boundary complexions. <i>Acta Materialia</i> , 2014, 62, 1-48.  | 7.9 | 660       |
| 32 | A grain boundary mobility discontinuity in reactive element Zr-doped Al <sub>2</sub> O <sub>3</sub> . <i>Scripta Materialia</i> , 2014, 90-91, 33-36.   | 5.2 | 12        |
| 33 | Influence of grain boundary energy on the nucleation of complexion transitions. <i>Scripta Materialia</i> , 2014, 88, 1-4.  | 5.2 | 32        |
| 34 | Atomic-resolution observation of Hf-doped alumina grain boundaries. <i>Scripta Materialia</i> , 2013, 68, 703-706.  | 5.2 | 33        |
| 35 | Grain boundary complexion transitions in WO <sub>3</sub> - and CuO-doped TiO <sub>2</sub> bicrystals. <i>Acta Materialia</i> , 2013, 61, 1691-1704.   | 7.9 | 30        |
| 36 | Identification of a bilayer grain boundary complexion in Bi-doped Cu. <i>Scripta Materialia</i> , 2013, 68, 146-149.  | 5.2 | 69        |

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|----|---|------|-----------|
| 37 | Grain Growth Anomaly and Dielectric Response in Ti-rich Strontium Titanate Ceramics. <i>Journal of Physical Chemistry C</i> , 2013, 117, 24787-24795.   | 3.1  | 23        |
| 38 | Changes in the Grain Boundary Character and Energy Distributions Resulting from a Complexion Transition in Ca-Doped Yttria. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 3532-3538. | 2.2  | 31        |
| 39 | A grain boundary phase transition in Si–Au. <i>Scripta Materialia</i> , 2012, 66, 203-206.  | 5.2  | 38        |
| 40 | The Phase Behavior of Interfaces. <i>Science</i> , 2011, 332, 182-183.  | 12.6 | 143       |
| 41 | Near-Intrinsic Grain-Boundary Mobility in Dense Yttria. <i>Journal of the American Ceramic Society</i> , 2011, 94, 651-655.   | 3.8  | 7         |
| 42 | The Role of a Bilayer Interfacial Phase on Liquid Metal Embrittlement. <i>Science</i> , 2011, 333, 1730-1733.   | 12.6 | 250       |
| 43 | Influence of interface energies on solute partitioning mechanisms in doped aluminas. <i>Acta Materialia</i> , 2010, 58, 5097-5108.  | 7.9  | 35        |
| 44 | Interfacial Kinetic Engineering: How Far Have We Come Since Kingery's Inaugural Sosman Address?. <i>Journal of the American Ceramic Society</i> , 2010, 93, 301-317.  | 3.8  | 77        |
| 45 | The Relative Energies of Normally and Abnormally Growing Grain Boundaries in Alumina Displaying Different Complexions. <i>Journal of the American Ceramic Society</i> , 2010, 93, 1796-1802.  | 3.8  | 62        |
| 46 | Grain boundary plane distributions in aluminas evolving by normal and abnormal grain growth and displaying different complexions. <i>International Journal of Materials Research</i> , 2010, 101, 50-56.  | 0.3  | 24        |
| 47 | Grain boundary complexions in ceramics and metals: An overview. <i>Jom</i> , 2009, 61, 38-44.   | 1.9  | 85        |
| 48 | Interface Stabilized Nanoscale Quasi-Liquid Films. <i>Microscopy Today</i> , 2009, 17, 22-27.   | 0.3  | 8         |
| 49 | Demystifying the role of sintering additives with “complexion”. <i>Journal of the European Ceramic Society</i> , 2008, 28, 1485-1493.   | 5.7  | 92        |
| 50 | The Effect of Yttrium on Oxygen Grain-Boundary Transport in Polycrystalline Alumina Measured Using Ni Marker Particles. <i>Journal of the American Ceramic Society</i> , 2008, 91, 2002-2008.   | 3.8  | 26        |
| 51 | Relating Grain Boundary Complexion to Grain Boundary Kinetics II: Silica-Doped Alumina. <i>Journal of the American Ceramic Society</i> , 2008, 91, 2314-2320.   | 3.8  | 54        |
| 52 | Relating Grain-Boundary Complexion to Grain-Boundary Kinetics I: Calcia-Doped Alumina. <i>Journal of the American Ceramic Society</i> , 2008, 91, 2304-2313.  | 3.8  | 80        |
| 53 | Diffusion Controlled Abnormal Grain Growth in Ceramics. <i>Materials Science Forum</i> , 2007, 558-559, 1227-1236.  | 0.3  | 25        |
| 54 | Multiple grain boundary transitions in ceramics: A case study of alumina. <i>Acta Materialia</i> , 2007, 55, 5247-5254.   | 7.9  | 137       |

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|----|--|-----|-----------|
| 55 | Complexion: A new concept for kinetic engineering in materials science. <i>Acta Materialia</i> , 2007, 55, 6208-6218.  | 7.9 | 496       |
| 56 | Mechanism of ?Solid-State? Single-Crystal Conversion in Alumina. <i>Journal of the American Ceramic Society</i> , 2007, 90, 993-995.   | 3.8 | 37        |
| 57 | Direct Observation of Multilayer Adsorption on Alumina Grain Boundaries. <i>Journal of the American Ceramic Society</i> , 2007, 90, 996-998.   | 3.8 | 24        |
| 58 | Comment on "Effect of Interface Structure on the Microstructural Evolution of Ceramics". <i>Journal of the American Ceramic Society</i> , 2007, 90, 2291-2292.   | 3.8 | 7         |
| 59 | Effect of PbO on the Kinetics of {001} Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -35 mol% PbTiO <sub>3</sub> Single Crystals Grown into Fully Dense Matrices. <i>Journal of the American Ceramic Society</i> , 2006, 89, 856-862.                 | 3.8 | 18        |
| 60 | Effect of Liquid Phase Chemistry on Single-Crystal Growth in PMN-35PT. <i>Journal of the American Ceramic Society</i> , 2006, 89, 060601012420010-???  | 3.8 | 2         |
| 61 | Intrinsic Grain Boundary Mobility in Alumina. <i>Journal of the American Ceramic Society</i> , 2006, 89, 3885-3887.  | 3.8 | 52        |
| 62 | Compositional tailoring of the thermal expansion coefficient of tantalum (V) oxide. <i>Journal of Materials Science</i> , 2006, 41, 689-695.   | 3.7 | 10        |
| 63 | Liquid Phase Sintering of Alumina, I. Microstructure Evolution and Densification. <i>Journal of the American Ceramic Society</i> , 2005, 88, 1702-1707.  | 3.8 | 19        |
| 64 | Liquid Phase Sintering of Alumina, II. Penetration of Liquid Phase into Model Microstructures. <i>Journal of the American Ceramic Society</i> , 2005, 88, 1708-1713.   | 3.8 | 13        |
| 65 | Liquid Phase Sintering of Alumina, III. Effect of Trapped Gases in Pores on Densification. <i>Journal of the American Ceramic Society</i> , 2005, 88, 1714-1719.   | 3.8 | 10        |
| 66 | Effect of Alumina Additions on Microstructural Aspects of the beta to alpha Transformation in Tantalum (V) Oxide. <i>Journal of the American Ceramic Society</i> , 2005, 88, 2369-2373.  | 3.8 | 14        |
| 67 | Changes in the distribution of interfaces in PMN-35 mol% PT as a function of time. <i>International Journal of Materials Research</i> , 2005, 96, 207-210.   | 0.8 | 5         |
| 68 | Seeded Growth from Twinned and Untwinned Abnormal Grains of Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -35 mol% PbTiO <sub>3</sub> in a Matrix Containing PbO Additions. <i>Journal of the American Ceramic Society</i> , 2004, 87, 1339-1342.     | 3.8 | 4         |
| 69 | Effect of Nd <sub>2</sub> O <sub>3</sub> Doping on the Densification and Abnormal Grain Growth Behavior of High-purity Alumina. <i>Journal of the American Ceramic Society</i> , 2004, 87, 378-383.  | 3.8 | 24        |
| 70 | Conversion of Polycrystalline Alumina to Single-crystal Sapphire by Localized Codoping with Silica. <i>Journal of the American Ceramic Society</i> , 2004, 87, 1879-1882.  | 3.8 | 17        |
| 71 | Effect of Rigid Inclusions on the Densification and Constitutive Parameters of Liquid-phase Sintered YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6+i</sub> Powder Compacts. <i>Journal of the American Ceramic Society</i> , 2003, 86, 883-892.                    | 3.8 | 16        |
| 72 | Influence of Excess PbO Additions on {111} Single-crystal Growth of Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -35 mol% PbTiO <sub>3</sub> by Seeded Polycrystal Conversion. <i>Journal of the American Ceramic Society</i> , 2003, 86, 2176-2181. | 3.8 | 18        |

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|----|---|-----|-----------|
| 73 | Kinetics of {001} $Pb(Mg_{1/3}Nb_{2/3})O_3$ “35 mol% $PbTiO_3$ Single Crystals Grown by Seeded Polycrystal Conversion. <i>Journal of the American Ceramic Society</i> , 2003, 86, 2182-2187.                          | 3.8 | 34        |
| 74 | X-ray Absorption Near-Edge Structure of Grain-Boundary-Segregated Y and Zr in Creep-Resistant Alumina. <i>Journal of the American Ceramic Society</i> , 2002, 85, 2492-2498.  | 3.8 | 18        |
| 75 | Superplastic Deformation in Fine-Grained $YBa_{2}Cu_3O_{7-\delta}$ . <i>Journal of the American Ceramic Society</i> , 2002, 85, 1190-1196.  | 3.8 | 1         |
| 76 | Chemical Heterogeneity in PMN-35PT Ceramics and Effects on Dielectric and Piezoelectric Properties. <i>Journal of the American Ceramic Society</i> , 2002, 85, 3018-3024.   | 3.8 | 54        |
| 77 | Ignition phenomena and controlled firing of reaction-bonded aluminum oxide. <i>Acta Materialia</i> , 2001, 49, 1095-1103.   | 7.9 | 8         |
| 78 | Influence of Dopant Concentration on Creep Properties of Nd <sub>2</sub> O <sub>3</sub> -Doped Alumina. <i>Journal of the American Ceramic Society</i> , 2001, 84, 1010-1016.   | 3.8 | 31        |
| 79 | Improved tensile creep properties of yttrium- and lanthanum-doped alumina: a solid solution effect. <i>Journal of Materials Research</i> , 2001, 16, 425-429.   | 2.6 | 29        |
| 80 | Alumina Agglomerate Effects on Toughness-Curve Behavior of Alumina-Mullite Composites. <i>Journal of the American Ceramic Society</i> , 2000, 83, 3089-3094.  | 3.8 | 5         |
| 81 | Modeling of Grain-Boundary Segregation Behavior in Aluminum Oxide. <i>Journal of the American Ceramic Society</i> , 2000, 83, 344-352.  | 3.8 | 22        |
| 82 | Toughening of an Alumina-Mullite Composite by Unbroken Bridging Elements. <i>Journal of the American Ceramic Society</i> , 2000, 83, 833-840.   | 3.8 | 14        |
| 83 | <title>Processing and application of solid state converted high-strain materials</title>, 1999, , .   |     | 5         |
| 84 | Codoping of Alumina to Enhance Creep Resistance. <i>Journal of the American Ceramic Society</i> , 1999, 82, 1497-1504.  | 3.8 | 68        |
| 85 | Scanning Transmission Electron Microscopy Analysis of Grain Boundaries in Creep-Resistant Yttrium- and Lanthanum-Doped Alumina Microstructures. <i>Journal of the American Ceramic Society</i> , 1999, 82, 2865-2870. | 3.8 | 45        |
| 86 | Single Crystals of $Pb(Mg_{1/3}Nb_{2/3})O_3$ “35 mol% $PbTiO_3$ from Polycrystalline Precursors. <i>Journal of the American Ceramic Society</i> , 1998, 81, 244-248.  | 3.8 | 73        |
| 87 | Effect of Annealing Environment on the Crack Healing and Mechanical Behavior of Silicon Carbide-Reinforced Alumina Nanocomposites. <i>Journal of the American Ceramic Society</i> , 1998, 81, 1203-1208.              | 3.8 | 74        |
| 88 | Toughness-Curve Behavior of an Alumina-Mullite Composite. <i>Journal of the American Ceramic Society</i> , 1998, 81, 2613-2623.   | 3.8 | 15        |
| 89 | Influence of Yttrium Doping on Grain Misorientation in Aluminum Oxide. <i>Journal of the American Ceramic Society</i> , 1998, 81, 3001-3004.  | 3.8 | 43        |
| 90 | Alumina platelet reinforced reaction bonded aluminum oxide composites: Textured and random. <i>Journal of Materials Research</i> , 1997, 12, 3300-3306.   | 2.6 | 9         |

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|-----|--|-----|-----------|
| 91  | Dopant Distributions in Rare-Earth-Doped Alumina. <i>Journal of the American Ceramic Society</i> , 1997, 80, 373-376.  | 3.8 | 97        |
| 92  | Effect of Yttrium and Lanthanum on the Tensile Creep Behavior of Aluminum Oxide. <i>Journal of the American Ceramic Society</i> , 1997, 80, 1013-1017.   | 3.8 | 183       |
| 93  | Effect of Yttrium and Lanthanum on the Final-Stage Sintering Behavior of Ultrahigh-Purity Alumina. <i>Journal of the American Ceramic Society</i> , 1997, 80, 2005-2012.   | 3.8 | 126       |
| 94  | High-Temperature Fracture Toughness of Duplex Microstructures. <i>Journal of the American Ceramic Society</i> , 1996, 79, 58-64.   | 3.8 | 26        |
| 95  | Machining-Induced Surface Residual Stress Behavior in Al <sub>2</sub> O <sub>3</sub> -SiC Nanocomposites. <i>Journal of the American Ceramic Society</i> , 1996, 79, 2403-2409.  | 3.8 | 61        |
| 96  | Crack Healing and Stress Relaxation in Al <sub>2</sub> O <sub>3</sub> SiC "Nanocomposites". <i>Journal of the American Ceramic Society</i> , 1995, 78, 567-571.  | 3.8 | 129       |
| 97  | Effect of silver addition on the microstructure of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> . <i>Journal of Materials Research</i> , 1994, 9, 1342-1349.  | 2.6 | 12        |
| 98  | Creep of Duplex Microstructures. <i>Journal of the American Ceramic Society</i> , 1994, 77, 2857-2865.   | 3.8 | 193       |
| 99  | Mechanical Behavior of Alumina-Silicon Carbide "Nanocomposites". <i>Journal of the American Ceramic Society</i> , 1993, 76, 503-510.   | 3.8 | 335       |
| 100 | Influence of Atmosphere on the Final-Stage Sintering Kinetics of Ultra-High-Purity Alumina. <i>Journal of the American Ceramic Society</i> , 1993, 76, 2248-2256.  | 3.8 | 41        |
| 101 | Controlled heterogeneous nucleation of melt-textured YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6+x</sub> by addition of Al <sub>2</sub> O <sub>3</sub> particles. <i>Journal of Materials Research</i> , 1993, 8, 2128-2133. | 2.6 | 11        |
| 102 | Effect of Pore Distribution on Microstructure Development: III, Model Experiments. <i>Journal of the American Ceramic Society</i> , 1992, 75, 830-843.   | 3.8 | 75        |
| 103 | Deterioration of a Classical Final-Stage Microstructure: A Study in Alumina. <i>Journal of the American Ceramic Society</i> , 1992, 75, 976-980.   | 3.8 | 15        |
| 104 | Thermal Healing of Laser-Induced Internal Cracks in Lithium Fluoride Crystals. <i>Journal of the American Ceramic Society</i> , 1992, 75, 1596-1602.   | 3.8 | 21        |
| 105 | Mechanism for the Peritectic Reaction and Growth of Aligned Grains in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6+x</sub> . <i>Journal of the American Ceramic Society</i> , 1992, 75, 1281-1283.                            | 3.8 | 76        |
| 106 | Unique Opportunities for Microstructural Engineering with Duplex and Laminar Ceramic Composites. <i>Journal of the American Ceramic Society</i> , 1992, 75, 1715-1728.   | 3.8 | 180       |
| 107 | Mechanical Properties of Interpenetrating Microstructures: The Al <sub>2</sub> O <sub>3</sub> /c-ZrO <sub>2</sub> System. <i>Journal of the American Ceramic Society</i> , 1992, 75, 418-423.                              | 3.8 | 21        |
| 108 | Sintering kinetics for a model final-stage microstructure: A study of Al <sub>2</sub> O <sub>3</sub> . <i>Philosophical Magazine Letters</i> , 1991, 63, 7-14.   | 1.2 | 46        |

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|-----|---|-----|-----------|
| 109 | Journal Effect of a Liquid Phase on the Sintering of Heterogeneous $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ Compacts. <i>Journal of the American Ceramic Society</i> , 1991, 74, 2175-2179.          | 3.8 | 4         |
| 110 | Microstructure and Dielectric Properties of Lead Magnesium Niobate-Pyrochlore Diphasic Mixtures. <i>Journal of the American Ceramic Society</i> , 1990, 73, 68-73.                                  | 3.8 | 111       |
| 111 | Effect of Magnesia Solute on Surface Diffusion in Sapphire and the Role-of Magnesia in the Sintering of Alumina. <i>Journal of the American Ceramic Society</i> , 1990, 73, 833-837.                | 3.8 | 60        |
| 112 | Effects of Inclusions on the Sintering Behavior of $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ . <i>Journal of the American Ceramic Society</i> , 1990, 73, 2740-2742.                                  | 3.8 | 9         |
| 113 | Coarsening-Resistant Dual-Phase Interpenetrating Microstructures. <i>Journal of the American Ceramic Society</i> , 1990, 73, 2508-2510.   | 3.8 | 105       |
| 114 | Formation of Grain-Boundary Carbon-Containing Phase During Annealing of $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ . <i>Journal of the American Ceramic Society</i> , 1989, 72, 1997-2000.             | 3.8 | 29        |
| 115 | Effects of CaO on the Strength and Toughness of AlN. <i>Journal of the American Ceramic Society</i> , 1989, 72, 469-473.  | 3.8 | 36        |
| 116 | Ordering Structure and Dielectric Properties of Undoped and La/Na-Doped $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ . <i>Journal of the American Ceramic Society</i> , 1989, 72, 593-598. | 3.8 | 507       |
| 117 | Mechanism for the Role of Magnesia in the Sintering of Alumina Containing Small Amounts of a liquid Phase. <i>Journal of the American Ceramic Society</i> , 1989, 72, 1241-1244.                    | 3.8 | 103       |
| 118 | Seeding Induced Aligned Microstructures (S.I.A.M.) in $\text{Yba}_2\text{Cu}_3\text{O}_{6+\text{X}}$ . <i>Materials Research Society Symposia Proceedings</i> , 1989, 169, 271.                     | 0.1 | 1         |
| 119 | Effect of Pore Distribution on Microstructure Development: I, Matrix Pores. <i>Journal of the American Ceramic Society</i> , 1988, 71, 113-120.   | 3.8 | 100       |
| 120 | Surface Coating Technique for Revealing Grain Structures in Alumina. <i>Journal of the American Ceramic Society</i> , 1988, 71, C-174-C-175.  | 3.8 | 2         |
| 121 | Effect of Pore Distribution on Microstructure Development: II, First- and Second-Generation Pores. <i>Journal of the American Ceramic Society</i> , 1988, 71, 530-539.                              | 3.8 | 111       |
| 122 | Analytical Microscopy Study of Phases and Fracture in $\text{Y}_2\text{O}_3\text{-La}_2\text{O}_3$ Alloys. <i>Journal of the American Ceramic Society</i> , 1988, 71, 820-825.                      | 3.8 | 21        |
| 123 | Sintering of Ultra-High-Purity Alumina Doped Simultaneously with MgO and FeO. <i>Journal of the American Ceramic Society</i> , 1987, 70, 860-866.   | 3.8 | 60        |
| 124 | Effect of Powder Purity and Second Phases on the Dielectric Properties of Lead Magnesium Niobate Ceramics. <i>Journal of the American Ceramic Society</i> , 1986, 69, C-303-C-305.                  | 3.8 | 77        |
| 125 | Grain-Growth Kinetics for Alumina in the Absence of a Liquid Phase. <i>Journal of the American Ceramic Society</i> , 1985, 68, C-22-C-24.   | 3.8 | 99        |
| 126 | Effect of MgO Solute on the Kinetics of Grain Growth in $\text{Al}_2\text{O}_3$ . <i>Journal of the American Ceramic Society</i> , 1983, 66, C-90-C-92.   | 3.8 | 129       |

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|-----|---|-----|-----------|
| 127 | The Relationship between Grain Boundary Energy, Grain Boundary Complexion Transitions, and Grain Size in Ca-Doped Yttria. Materials Science Forum, 0, 753, 87-92. | 0.3 | 16        |
| 128 | Applications of analytical electron microscopy to guide the design of boron carbide. Journal of the American Ceramic Society, 0, , .                              | 3.8 | 0         |
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