

Publications – E.A. Kenik

2006

Allen, T. R., J. I. Cole, C. L. Trybus, D. L. Porter, H. Tsai, F. Garner, E. A. Kenik, T. Yoshitake, Joji Ohta, "The effect of dose rate on the response of austenitic stainless steels to neutron radiation," *J. Nucl. Mater.* **348** 148-164 (2006).

Allen, T.R., L. Tan, J. Gan, G. Gupta, G.S. Was, E.A. Kenik, S. Shutthanandan, S. Thevuthasan, "Microstructural development in advanced ferritic-martensitic steel HCM12A," *J. Nucl. Mater.* **351** 174-186 (2006).

Campbell, R., M. Bakker, G. Havrilla, V. Montoya, E. A. Kenik and M. Shamsuzzohad, "Preparation of Mesoporous Silica Tempered Metal Nanowire Films on Foamed Nickel Substrates," *Microporous and Mesoporous Materials* **97** 114-121 (2006).

Demers, H., R. Gauvin, D. C. Joy, and E. A. Kenik, "Variations in Peak Position and Energy Resolution for a Microcalorimeter EDS by Temporal X-ray Spectroscopy," *Microscopy and Microanalysis* **12** (Supp. 2), 1442-3CD (2006).

Kenik, E.A. and H. Demers, "Spectrum Imaging with a Microcalorimeter EDS Detector on a FEG-SEM," *Microscopy and Microanalysis* **12** (Supp. 2), 140-141 (2006).

Man, C.-S., R. Paroni, Y. Xiang, and E. A. Kenik, "On the geometric autocorrelation function of polycrystalline materials," *J. Comp. App. Math.* **190**, 200-210 (2006).

Perez, M.G., E.A. Kenik, M.J. O'Keefe, F.S. Miller and B. Johnson, "Identification of phases in zinc alloy powders using electron backscatter diffraction," *Mater. Sci. Eng.-A* **424** (1-2), 239-250 (2006).

2005

Allen, T. R., J. Gan, J. I. Cole, G. S. Was, R. Dopek, and E. A. Kenik, "Swelling and Radiation-induced Segregation in Austenitic Alloys," *J. Nucl. Mater.* **342**, 90-100 (2005).

Busby, J. T., M.M. Sowa, G.S. Was, and E.A.Kenik, "The Role of Fine Defect Clusters in Irradiation-Assisted Stress Corrosion Cracking of Proton-Irradiated 304 Stainless Steel", *Effects of Radiation on Materials: 21st International Symposium*, ASTM STP 1447, M. R. Grossbeck, T. R. Allen, R. G. Lott and A. S. Kumar, Eds., American Society for Testing of Materials, West Conshohocken, PA, 78-91 (2005).

Demers, H., R. Gauvin, I. M. Anderson, D. C. Joy, and E. A. Kenik, "Deconvolution of Closely Spaced Spectral Features with a Microcalorimeter EDS," *Microscopy and Microanalysis* **11** (Supp. 2), 464CD (2005).

Kenik, E.A. and H. Demers, "Life with a Microcalorimeter EDS Detector on a FEG-SEM," *Microscopy and Microanalysis* **11** (Supp. 2), 462CD (2005).

Kenik, E. A., T. J. Huxford, J.R. Mayotte, T. S. Nedkova and J. D. Sease, "Evaluation of Grain Growth and Bonding in Roll Bonded Aluminum Alloy Plates," *Microscopy and Microanalysis* **11** (Supp. 2), 1840 (2005).

Kenik, E. A., H. M. Meyer, R. Vane and V. Carlino, "Effects of Evactron® Plasma Cleaning on X-ray Detector Windows," *Microscopy and Microanalysis* **11** (Supp. 2), 1368CD (2005).

Khangar, A., E. A. Kenik and N. B. Dahotre, "Microstructure and Microtexture in Laser-dressed Alumina Grinding Wheels," *Ceramics International* **31**, 621-629 (2005).

Li, J., W. C. Liu, T. Zhai, E. A. Kenik, "Comparison of recrystallization textures in cold-rolled continuous cast AA5083 and 5182 aluminum alloys," *Scripta Mater.* **52**, 163-168 (2005).

*Miller, M. K., D. T. Hoelzer, E. A. Kenik and K. F. Russell, "Stability of Ferritic MA/ODS Alloys at High Temperatures" *Intermetallics* **13**, 387-392 (2005).

†Nayak, S., H. Wang, E. A. Kenik, I. M. Anderson and N. B. Dahotre, "Observation of Exothermic Reaction During Laser Assisted Iron Oxide Coating on Aluminum Alloy," *Mater. Sci. Eng.-A* **390**, 404-413 (2005).

Schneider, J.A., E.A. Kenik, "Microstructural Influences on the Development and Growth of Small Fatigue Cracks in the Near Threshold Regime," *J. ASTM International*, **2**, No. 1, Paper ID JAI12050 2005 (electronic).

Schneider, M. S., B. Kad, D. H. Kalantar, B. A. Remington, E. A. Kenik, H. Jarmakani and M. A. Meyers,
"Laser Shock Compression of Copper and Copper-Aluminum Alloys," *International Journal of Impact Engineering* **32**, 473-507 (2005).

2004

Anderson, A. D., G. A. Deluga, D. L. Boxall, M. J. Vergne, D. M. Hercules, E. A. Kenik and C. M. Lukehart, "Preparation of Pt-Re/Vulcan Carbon Nanocomposites Using a Single-Source Molecular Precursor and Relative Performance as a Direct Methanol Fuel Cell Electrooxidation Catalyst," *J. Nanoscience and Nanotechnology* **4**, 809-816 (2004).

Bei, H., E. P. George, E. A. Kenik and G. M. Pharr, Microstructures and mechanical properties of V-V₃Si eutectic composites," *Zeitschrift für Metallkunde* **95**, 505-512 (2004).

Busby, J.T., M. M. Sowa, G. S. Was and E. A. Kenik, "The Role of Fine Defect Clusters in Irradiation-Assisted Stress Corrosion Cracking of Proton-Irradiated 304 Stainless Steel," *Journal of ASTM International*, April 2004, **1**, No. 4, Paper ID JAI 11317, available online at www.astm.org.

Busby, J.T., M. M. Sowa, G. S. Was and E. A. Kenik, "The Role of Fine Defect Clusters in Irradiation-Assisted Stress Corrosion Cracking of Proton-Irradiated 304 Stainless Steel," pp. 78-91 in *Effects of Radiation of Materials: 21st International Symposium*, edited by M.R. Grossbeck, T. R. Allen, R. G. Lott, and A. S. Kumar, *STP 1447*, American Society for Testing of Materials, West Conshohocken, PA (2004).

Cole, J.I., T. R. Allen, J. Gan, G. S. Was R. B. Dopek and E. A. Kenik, "Development of Radiation-Tolerant Austenitic Stainless Steels for Advanced Reactor Applications," pp. 1812-20 in *Proc. ANS Global 2003 Conference*, American Nuclear Society, LaGrange Park, IL (2004).

Cole, J. I., T. R. Allen, G. S. Was, R B. Dopek and E. A. Kenik, "The Influence of Pre-Irradiation Heat Treatment on Thermal Non-Equilibrium and Radiation-Induced Segregation Behavior in Model Austenitic Stainless Steel Alloys," pp. 540-552 in *Effects of Radiation of Materials: 21st International Symposium*, edited by M.R. Grossbeck, T. R. Allen, R. G. Lott, and A. S. Kumar, *STP 1447*, American Society for Testing of Materials, West Conshohocken, PA (2004).

Demers, H., R. Gauvin, I.M. Anderson, D.C. Joy and E.A. Kenik, "A Comparison of Microcalorimeter and Conventional Semiconductor EDS," *Microscopy and Microanalysis* **10** (Supp. 2), 106-107 (2004).

*Kenik, E.A., I.M. Anderson, D.C. Joy, S.T. Lazarz and J.A. Norrell, "Low Voltage X-ray Microanalysis with a Microcalorimeter Detector," *Microscopy and Microanalysis* **10** (Supp. 2), 918CD (2004).

*Kenik, E.A., D.C. Joy and D. Redfern, "Microcalorimeter Detectors and Low Voltage SEM Microanalysis," *MikroChim Acta* **145**, 81-85 (2004).

King, W.D., E.S. Steigerwalt, G.A. Deluga, J.D. Corn, D.L. Boxall, J.T. Moore, D. Chu, R. Jiang E.A. Kenik and C.M. Lukehart, "Pt-Ru/Carbon Nanocomposites: Synthesis, characterization and performance as DMFC anode catalysts," pp. 201-220 in *Nanotechnology in Catalysis I*, Kluwer Academic/Plenum, New York (2004).

Miller, M.K., D.T. Hoelzer, E.A. Kenik and K.F. Russell, "Nanometer scale precipitation in ferritic MA/ODS alloy MA957," *J. Nucl. Mater.* **329-333**, 338-341 (2004).

Miller, M.K., D.T. Hoelzer, E.A. Kenik and K.F. Russell, "Stability of Ferritic MA/ODS Alloys at High Temperatures," *Microscopy and Microanalysis* **10** (Supp. 2), 708CD (2004).

Miller, M.K., and E.A. Kenik, "Atom Probe Tomography: A Technique for Nanoscale Characterization," *Microscopy and Microanalysis* **10**, 336-341 (2004).

Sencer, B. H., G. S. Was, L. Fournier, E. A. Kenik, E. P. Simonen, and S. M. Bruemmer, "Influence of Oversized Solute Additions on Radiation-Induced Microstructure and Microchemistry in Austenitic Stainless Steel," pp.46-55 in *Effects of Radiation of Materials: 21st International Symposium*, edited by M. R. Grossbeck, T. R. Allen, R. G. Lott, and A. S. Kumar, STP 1447, American Society for Testing of Materials, West Conshohocken, PA (2004).

Scott, R. W .J., O. M. Wilson, S-K. Oh, E. A. Kenik and R. M. Crooks, "Bimetallic Palladium-Gold Dendrimer-Encapsulated Catalysts," *J. Am. Chem. Soc.* **126**, 15583-15591 (2004).

2003

T.R. Allen, J. Gan, J.I. Cole, G.S. Was, R.B. Dopek and E.A. Kenik, "The Effect of Bulk Composition on Radiation Damage in Austenitic Alloys", paper 3237 in *Fuel And Materials Needs For Generation IV Nuclear Energy Systems*, Proceedings of ICAPP '03, eds. T.R. Allen and D.C. Crawford, American Nuclear Society, LaGrange Park, IL, 2003.

H. Bei, E.P. George, E.A. Kenik and G.M. Pharr, "Directional Solidification and Microstructure of Cr-Cr₃Si Near Eutectic Alloys," *Acta Mater.* **51** 6241-6252 (2003).

J.T. Busby, M.C. Hash, G.S.Was and E.A. Kenik, "Precipitation of Second Phase Particles in a Proton-Irradiated Model Alloy," *Microscopy and Microanalysis* **9** (Supp. 2), 604CD (2003).

Q. Han, W.A. Simpson, J.L. Zeh, E.A. Kenik and V.K. Sikka, "The Effect of Solidification Defect on Dross Formation During Re-melting of Aluminum 5182 Alloy RSI," pp.773-777 in *Light Metals 2003*, ed. P.N. Crepeau, TMS, Warrendale, PA (2003).

E.A. Kenik, P.J. Maziasz, R.W. Swindeman, J. Cervenka and D. May, "Structure And Phase Stability In A Cast Modified-HP Austenite After Long-Term Ageing," *Scripta Mater.* **49**(2), 117-122 (2003).

E.A. Kenik and R. Jahn, "Microstructure of Ultrasonic Welded Aluminum By Orientation Imaging Microscopy," *Microscopy and Microanalysis* **9** (Supp. 2), 720CD (2003).

*E.A. Kenik, D.C. Joy and D. Redfern, "Microcalorimeter EDS Detectors and Their Application in Low Voltage SEM-based Microanalysis," pp. 163-177 in *Proc. 8th European Workshop on Modern Developments and Applications in Microbeam Analysis*, eds. F. Salvat and X. Llovet, European Microbeam Analysis Society, Antwerp, Belgium (2003).

W.D. King, J.D. Corn, O.J. Murphy, D.L. Boxall, E.A. Kenik, S.R. Stocks and C.M. Lukehart, "Pt-Ru and Pt-Ru-P/Carbon Nanocomposites: Synthesis, Characterization and Unexpected Performance as Direct Methanol Fuel Cells (DMFC) Anode Catalysts," *J. Physical Chemistry B* 107(23), 5467-5474 (2003).

*M.K. Miller, D.T. Hoelzer, E.A. Kenik and K.F. Russell, "Precipitation in MA/ODS Ferritic Alloy MA957," *Microscopy and Microanalysis* 9 (Supp. 2), 44-45 (2003).

M.K. Miller, E.A. Kenik, K.F. Russell, L. Heatherly, D.T. Hoelzer and P.J. Maziasz, "Atom Probe Tomography of Nanoscale Particles in ODS Ferritic Alloys," *Mater. Sci. Eng. A* 353(1-2), 140 - 145 (2003).

J.T. Moore, J.D. Corn, D. Chu, R. Jiang, D.L. Boxall, E.A. Kenik, and C.M. Lukehart, "Synthesis and Characterization of a Pt₃Ru₁/Vulcan Carbon Powder Nanocomposite and Reactivity as a Methanol Electrooxidation Catalyst," *Chem. Mater.* 15, 3320-3325 (2003).

C. Park, R. Crooks, E.J. Siochi, N.D. Evans and E.A. Kenik, "Adhesion of Polyimide to Single Wall Carbon Nanotube Bundles Revealed By Energy-Filtered Transmission Electron Microscopy," *Nanotechnology* 14(9), L11-L14 (2003).

J.-W. Park, S.S. Babu, J.M. Vitek, E.A. Kenik and S.A. David, "Stray Grain Formation in Single Crystal Ni-base Superalloy Welds, *J. Appl. Phys.* 94(6), 4203-09 (2003).

2002

T. R. Allen, J. I. Cole and E. A. Kenik, "Radiation-induced Segregation and Void Swelling in 304 Stainless Steel," pp. 427-442 in *Effects of Radiation on Materials 20th International Symposium*, ASTM STP 1405, eds. S. T. Rosinski et al., American Society for Testing and Materials, West Conshohoken, PA, (2002).

D.L. Boxall, E.A. Kenik and C.M. Lukehart, "Synthesis of PtSn/Carbon Nanocomposites using trans-PtCl(PEt₃)₂(SnCl₃) as a Source of Metal," *Chem. Mater.* 14(4), 1715-1720 (2002).

J.T. Busby, G.S. Was and E.A. Kenik, "Isolation of the Role of Radiation-Induced Segregation in Irradiation-Assisted Stress Corrosion Cracking of Austenitic Stainless Steels," *J. Nucl. Mater.* 302, 20-40 (2002).

J.T. Busby, E.A. Kenik and G.S. Was, "Comparison of In- and Ex-Situ Analysis of Post-Irradiation Annealing," *Microsc. Microanal.* 8 (Suppl. 2), 1422-23CD (2002).

N.D. Evans, C. Park, R. Crooks, E.J. Siochi and E.A. Kenik, "An EFTEM Study of Polyimide Adhesion to Single-Walled Carbon Nanotubes," *Microsc. Microanal.* 8 (Suppl. 2), 1126-27CD (2002).

R.L. Klueh, P.J. Maziasz, I.S. Kim, L. Heatherly, D.T. Hoelzer, N. Nashimoto and E.A. Kenik, K. Miyahara, "Tensile and Creep Properties of an Oxide Dispersion-Strengthened Ferritic Alloy," *J. Nucl. Mater.* 307-311, 773-777 (2002).

L.J. LeGore, R.J. Lad, J.F. Vetelino, B.G. Frederick and E.A. Kenik, "Defects and Morphology of Tungsten Trioxide Thin Films," *Thin Solid Films* 406 (1-2), 79-86 (2002).

Y. Lin, A.M. Rao, B. Sadanadsn, E.A. Kenik and Y-P. Sun, "Functionalized Multiple-Walled Carbon Nanotubes with Aminopolymers," *J. Phys. Chem. B* 106, 1294-1298 (2002).

L. Maya, C.H. Chen, K.A. Steveson, E.A. Kenik, S.L. Allman, and T.G. Thundat, "Mass Spectrometric Analysis of Water-Soluble Gold Nanoclusters," *J. Nanoparticle Research* 4 417-422 (2002).

L. Maya, K.A. Stevenson, G. Muralidharan, T.G. Thundat, and E.A. Kenik, "Assembly of gold nanoclusters on silicon surfaces," *Langmuir* 18(6) 2392-2397 (2002).

M.K. Miller, E.A. Kenik, K.F. Russell, and A.J. Bryhan, "Improvement in the Ductility of Molybdenum Alloys due to Grain Boundary Segregation," *Scripta Mater.* 46, 299-303 (2002).

M.K. Miller and E.A. Kenik, Atom Probe Tomography: A Technique for Nanoscale Characterization," *Microsc. Microanal.* 8 (Suppl. 2), 1126-27CD (2002).

G.S. Was, J.T. Busby, J. Gan, E.A. Kenik, A. Jessen, S.M. Bruemmer, P.M. Scott, and P.L. Andresen, "Emulation of Neutron Irradiation Effects with Protons: Validation of Principle," *J. Nucl. Mater.* 300, 198-216 (2002).

D.F. Wilson, E.A. Kenik, and P.J. Blau, "Evaluation of Corrosion Failure in Tractor-Trailer Brake System," ORNL/TM-2002/161 (2002).

2001

T. R. Allen, J. I. Cole, J. Ohta, H. Kusanagi, and E. A. Kenik, "Radiation-induced Segregation in 316 and 304 Stainless Steel Irradiated at Low Dose Rate," pp. R2.4.1-6 in *Microstructural Processes in Irradiated Materials*, eds.G.E. Lucas et al., Mater. Res. Soc. Symp. Proc. 650, Materials Research Society, Pittsburgh, PA (2001).

T.R. Allen, J.I. Cole, N.L. Dietz, Y. Wang, G.S. Was, and E.A. Kenik, "The Effect of Bulk Composition on Swelling and Radiation-induced Segregation in Austenitic Alloys," pp. R3.12.1-6 in *Microstructural Processes in Irradiated Materials*, eds.G.E. Lucas et al., Mater. Res. Soc. Symp. Proc. 650, Materials Research Society, Pittsburgh, PA (2001).

D.L. Boxall, G.A. Deluga, E.A. Kenik, W.D. King, and C.M. Lukehart, "Rapid Synthesis of a Pt_xRu_{1-x}/Carbon Nanocomposite Using Microwave Irradiation: A DMFC Anode Catalyst of High Relative Performance," *Chem. Mater.* 13, 891-900 (2001).

D.L. Boxall, E.A. Kenik, and C.M. Lukehart, "On-Particle EDS Analysis of Bimetallic, Carbon-Supported Catalysts," pp. 265-270 in *Advances in Materials Problem Solving with the Electron Microscope*, eds. J. Bentley et al., Mater. Res. Soc. Symp. Proc. 589, Materials Research Society, Pittsburgh, PA (2001).

J.T. Busby, G.S. Was, and E.A. Kenik, Isolation of the Role of Radiation-Induced Segregation in Irradiation-Assisted Stress Corrosion Cracking of Proton-Irradiated Austenitic Stainless Steels, Proc. of the 10th Int. Symp. on Environmental Degradation of Materials (2001) NACE, Houston, TX, Paper 84 (electronic proceedings).

J.I. Cole, T.R. Allen, G.S. Was, Y. Wang, and E.A. Kenik, "The Effect of Bulk Composition on the Radiation-Induced Microstructures and Segregation Behavior in Model Austenitic Stainless Steel Alloys: A Proton Irradiation Study," *Proc. 10th Intern. Symp of Environmental Degradation of Materials in Nuclear Power Systems - Water Reactors* (2001) NACE, Houston, TX, Paper 31 (electronic proceedings).

L. Fournier, B.H. Sencer, Y. Yi, G.S. Was, J. Gan, S.M. Bruemmer, E.P. Simonen, and E.A. Kenik, "Effect of Oversize Solute Additions on Irradiation-Assisted Stress Corrosion Cracking of Austenitic Stainless Steel," Proc. of the 10th Int. Symp. on Environmental Degradation of Materials (2001) NACE, Houston, TX, Paper 157 (electronic proceedings).

Q. Han, E. A. Kenik, S. R. Agnew, and S. Viswanathan, "Solidification Behavior of Commercial Magnesium Alloys" pp. 81-86 in *Magnesium Technology 2001*, Ed. J. Hryni, TMS, Warrendale, PA (2001).

*J.R. Keiser, D. Singbeil, G. Sarma, K. Choudhury, P. Singh, C. Hubbard, E. Kenik, P. Maziasz, and S. Bailey, "Comparison of Cracking in Recovery Boiler Composite Floor and Primary Air Port Tubes," pp. 21-26 in *Proc. Of International Chemical Recovery Conference*, Pulp and Paper Technical Association of Canada, Montreal, Canada (2001).

J.R. Keiser, D.L. Singbeil, K.A. Choudhury, G.D. Sarma, C.R. Hubbard, T.M. Ely, J.R. Kish, P.M. Singh, E.A. Kenik, and L.M. Hall, "Characterization of Primary Air Port Cracking in Black Liquor Recovery Boilers," pp. 89-102 in *Proc. 10th International Symp. On Corrosion in the Pulp and Paper Industry*, Vol.1, ed. T. Hakkarainen, VTT Technical Research Centre of Finland, Kemistintie, Finland (2001).

E.A. Kenik, D. Hoelzer, P.J. Maziasz and M.K. Miller, "Characterization of Nanoscale Clusters in ODS Iron-Based Alloys," *Microscopy and Microanalysis* 7 (Supp. 2), 550-1 (2001).

E.A. Kenik, J.T. Busby, and G.S. Was, "High Spatial Resolution X-ray Microanalysis of Radiation-Induced Segregation in Proton-Irradiated Stainless Steels," pp. 295-300 in *Advances in Materials Problem Solving with the Electron Microscope*, eds. J. Bentley et al., Mater. Res. Soc. Symp. Proc. 589, Materials Research Society, Pittsburgh, PA (2001).

L.J. LeGore, R.J. Lad, J.F. Vetelino, B.G. Frederick, and E.A. Kenik, "Aggregation and Sticking Probability of Gold on Tungsten Trioxide Films," *Sensors and Actuators B: Chemical* 76 (1-3), 373-379 (2001).

M.K. Miller, E.A. Kenik, K.F. Russell and A.J. Bryhan, "Grain Boundary Segregation in Zr-, B- and C-doped Mo," *Microscopy and Microanalysis* 7 (Supp. 2), 322-3 (2001).

G. Oertelt, S.S. Babu, S.A. David, and E.A. Kenik, "Effect of Thermal Cycling on Friction Stir Welds of 2195 Aluminum Alloy," *Welding Journal* 80, 71s-79s (2001). (2002 Warren F. Savage Memorial Award from the Welding Society)

P.F. Tortorelli, B.A. Pint, E.A. Kenik, K.L. More, and I.G. Wright, "Oxide Defects and Damage Processes in Iron-Based Alumina-Formers," *Materials Science Forum* Vols .369-372, 337-344 (2001).

2000

S. R. Agnew, S. Viswanathan, E. A. Payzant, Q. Han , K. C. Liu, and E. A. Kenik, "Tensile and Compressive Creep Behavior of Magnesium Die Casting Alloys Containing Aluminum", pp. 687-692 in *Magnesium Alloys and Their Applications*, Werkstoff-Informationsgesellschaft, Frankfurt: (2000).

S. R. Agnew, K. C. Liu, E. A. Kenik and S. Viswanathan, "Tensile and Compressive Creep Behavior of Die Cast Magnesium Alloy AM60B," pp. 285-290 in *Magnesium Technology 2000*, Eds. H. I. Kaplan, J. Hryni, and B. Clow, TMS, Warrendale, PA (2000).

T.R. Allen, E. A. Kenik, and G.S. Was, "Variability of Radiation-Induced Segregation in Iron-Chromium-Nickel Alloys," *J. Nucl. Mater.* 278, 149-163 (2000).

T.R. Allen, J.T. Busby, J. Gan, E. A. Kenik, and G.S. Was, "The Correlation Between Swelling and Radiation-Induced Segregation in Fe-Cr-Ni Alloys," pp. 739-755 in *Effects of Radiation on Materials*, 19th International Symposium, ASTM STP 1366, eds. M.L. Hamilton et al., American Society for Testing and Materials, West Conshohocken, PA, (2000).

T.R. Allen, J.I. Cole, N.L. Dietz, Y. Wang, G.S. Was, and E.A. Kenik, "The Effect of Bulk Composition on Microstructural Changes in Austenitic Alloys," p.205 in *Transactions of the 2000 ANS Winter Meeting*, American Nuclear Society, LaGrange Park, IL, (2000).

Q. Han, E. A. Kenik, and S. Viswanathan, "Die Soldering in Aluminum Die Casting," pp. 765-770 in *Light Metals 2000*, ed. R.D. Peterson, TMS, Warrendale, PA (2000).

E.A. Kenik, and P.J. Maziasz, "Phase Stability in Cast HP Austenite After Long-Term Ageing," *Microscopy and Microanalysis* 6 (Supp. 2), 352-3 (2000).

K.S. Kumar, L.P. Pang, C.T. Liu, J. Horton, and E.A. Kenik, "Structural Stability of the Laves Phase Cr₂Ta in a Two-Phase Cr-Cr-Cr₂Ta Alloy," *Acta Mater* 48 (4), 911-923 (2000).

L. Maya, M. Govindarajan, T.G. Thundat and. E.A. Kenik, "Polymer Mediated Assembly of Gold Nanoclusters," *Langmuir* 16, 9151-9154 (2000).

J.W. Sinclair, K.T. Hartwig Jr., R.E. Goforth, E.A. Kenik, and E. Voelkl, "Microstructure and Mechanical Properties of Aluminum 5083 Processed by Equal Channel Angular Extrusion," pp. 393-403 in *Ultrafine Grained Materials*, eds. R.S. Mishra et al., TMS, Warrendale, PA (2000).