
Dr. Shirin Kaboli

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 High Pressure Science and Engineering Center (HiPSEC)
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 Date of Birth: 09/18/1986
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Education

Jan 2011 – May 2015: PhD in Materials Engineering, McGill University, Montreal, QC, Canada
 Aug 2008 – Aug 2010: MSc in Materials Science and Engineering, McMaster University, Hamilton, ON, Canada
 Sep 2004 – May 2008: BSc in Metallurgy and Materials Engineering, University of Tehran, Tehran, Iran

Employment

Aug 2016 – present: Assistant Research Professor
 Geoscience Department and High Pressure Science and Engineering Center (HiPSEC)
 University of Nevada, Las Vegas (UNLV)
 Las Vegas, NV, United States

Aug 2015 – Sep 2016: Postdoctoral Research Associate
 Geoscience Department and High Pressure Science and Engineering Center (HiPSEC)
 University of Nevada, Las Vegas (UNLV)
 Las Vegas, NV, United States

Awards

2015 *1st Prize for Young Scientists' Contribution EMAS Award*
 14th European Microbeam Analysis Society (EMAS), Portoroz, Slovenia

2015 *Gold Medal Award for Excellence in Contributions to Research*
 Materials Engineering, McGill University, Montreal, QC, Canada

2014 *Early Career Scholar Award*
 6th International Union of Microbeam Analysis Societies Meeting, Hartford, CT, United States

2014 *Graduate Student Departmental Scholarship for Excellence in Contributions to Research*
 Materials Engineering, McGill University, Montreal, QC, Canada

2014 *Annual Graduate Research Mobility Award*
 Materials Engineering, McGill University, Montreal, QC, Canada

2014 *1st Prize in Poster Competition in PhD Category*
 American Society of Metals (ASM) International, McGill University, Montreal, QC, Canada

2013 *Graduate Research Enhancement and Travel (GREAT) Award*
 Materials Engineering, McGill University, Montreal, QC, Canada

2013 *Best Poster Presentation Award in Instrumentation, Microcopy and Microanalysis*
 Microcopy and Microanalysis (M&M) Annual Meeting, Indiana, IN, United States

2013 *1st Prize for Young Scientists' Contribution*
 13th European Microbeam Analysis Society (EMAS), Porto, Portugal

2013 *Annual Graduate Research Mobility Award*
 Materials Engineering, McGill University, Montreal, QC, Canada

2012 *Graduate Research Enhancement and Travel (GREAT) Award*
 Materials Engineering, McGill University, Montreal, QC, Canada

2011-2013 *McGill Engineering Doctoral Award (MEDA)*
 Materials Engineering, McGill University, Montreal, QC, Canada

2010 *Best Oral Presentation Award in Materials Physics*
 Canadian Materials Science Conference (CMSC22), University of Waterloo, Waterloo, ON, Canada

2010 *Dante Cosma Graduate Scholarship*
 Materials Science and Engineering, McMaster University, Hamilton, ON, Canada

2004-2008 *Faculty Of Engineering (FOE) Annual Award*
 University of Tehran, Tehran, Iran

Publications

- (16) **S. Kaboli**, P. C. Burnley, G. Xia, H. W. II. Green, *Activation volume measurements of forsterite olivine using Griggs and D-DIA Apparatus*. *Geophysical Research Letters*, (2017) (in press).
- (15) **S. Kaboli** and P. C. Burnley, *ECCI, EBSD and EPSC characterization of rhombohedral twinning in polycrystalline α -alumina deformed in the D-DIA apparatus*. *Applied Crystallography*, (2017) (in press).
- (14) **S. Kaboli** and R. Gauvin, *On rotation contour contrast in hot-compressed magnesium alloys in a scanning electron microscope*. *Metallography, Microstructure, and Analysis* **5(3)**, 188-195 (2016).
- (13) **S. Kaboli** and R. Gauvin, *Rotation axes analysis of deformed magnesium based on rotation contour contrast in a scanning electron microscope*. *Ultramicroscopy* **154**, 42-48 (2015).
- (12) **S. Kaboli**, H. Demers, N. Brodusch, R. Gauvin, *Rotation contour contrast reconstruction using electron backscatter diffraction in a scanning electron microscope*. *Applied Crystallography* **48**, 776-785 (2015).
- (11) **S. Kaboli** and J. R. McDermid, *Effect of process variables on the grain size and crystallographic texture of hot-dip galvanized coatings*. *Metallurgical and Materials Transactions A*. **45(9)**, 3938-3953 (2014).
- (10) **S. Kaboli**, D. Goldbaum, R. R. Chromik, R. Gauvin, *Microstructural characterization of Mg-0.3Al-0.2Ca alloy using ion milling surface preparation technique*. *Metallography, Microstructure, and Analysis* **3**, 257-262 (2014).
- (9) **S. Kaboli**, P. T. Pinard, J. Su, S. Yue, R. Gauvin, *Electron channeling contrast observations in deformed Mg alloys prepared with ion milling*. *IOP Conference Series: Materials Science and Engineering* **55(1)**, 012007 (2014).
- (8) **S. Kaboli**, D. Goldbaum, R. R. Chromik, R. Gauvin, *Electron channeling contrast imaging of plastic deformation induced by indentation in polycrystalline nickel*. *Microscopy and Microanalysis* **19(6)**, 1620-1631 (2013).
- (7) J. Su, **S. Kaboli**, A. S. H. Kabir, I. H. Jung, S. Yue, *Effect of dynamic precipitation and twinning on dynamic recrystallization of micro-alloyed Mg-Al-Ca alloys*. *Materials Science and Engineering A*. **587**, 27-35 (2013).
- (6) J. Su, **S. Kaboli**, A. S. H. Kabir, I. H. Jung, S. Yue, *Dynamic recrystallization and texture of micro-alloyed magnesium-aluminum-calcium alloys during hot deformation*. *Materials Science & Technology 2013 Conference Proceedings* **3**, 1518-1527 (2013).
- (5) **S. Kaboli** and R. Gauvin, *Development of SEM-based techniques to characterize hot-deformation behavior of magnesium alloys*. *Proceedings of the 9th International Conference on Magnesium Alloy and Their Applications* **40** (2012).
- (4) J. Su, **S. Kaboli**, A. S. H. Kabir, P. Vo, I. H. Jung, S. Yue, *Precipitation behavior of micro alloyed Mg-Al-Ca alloys during heat treatment and hot compression*. *Magnesium Technology 2012*, 317-322 (2012).
- (3) M. Emamy, A. Razaghian, **S. Kaboli**, J. Campbell, *Statistical analysis of tensile properties of cast A357/ Al_2O_3 MMCs*. *Materials Science and Technology* **26(2)**, 149-156 (2010).
- (2) **S. Kaboli**, R. Gauvin, *Effect of process variables on the solidification of hot-dip galvanized coatings*. *Materials Science & Technology 2010 Conference Proceedings*, **11**, 1246-1256 (2010).
- (1) M. Emamy, R. Abbasi, **S. Kaboli**, J. Campbell, *Fluidity of Al-based metal matrix composites containing Al_2O_3 and SiC Particles*. *International Journal of Cast Metals Research* **22(6)**, 1246 (2009).

Invited talks

- 2017** 18th International Conference on Textures of Materials (ICOTOM), St. George, UT, United States
Deformation analysis of alumina compressed at high pressure using ECCI and EBSD
- 2016** Microscopy and Microanalysis (M&M) Annual Meeting, Columbus, OH, United States
Deformation analysis of forsterite olivine using ECCI and EBSD
- 2015** Microscopy and Microanalysis (M&M) Annual Meeting, Portland, OR, United States
Characterization of hot-compressed magnesium alloys in a FE-SEM