

# Paniz Foroughi

## Curriculum Vitae



### PERSONAL INFORMATION

Date of Birth: June 4<sup>th</sup> 1990,  
Address: 10253 NW 9<sup>th</sup> St Cir, Building 6, Apt 307,  
Miami, Florida, 33172  
Email: [pforo002@fiu.edu](mailto:pforo002@fiu.edu)

### WORK EXPERIENCE

- **Synthesis (synthesis of nano-powders of SiC, B<sub>4</sub>C, HfB<sub>2</sub>)**
- **Fabrication (Photolithography/ CVD process engineering)**
- **Characterization (in-situ & ex-situ Raman Spectroscopy/SEM (JEOL 7000 field emission, JEOL 6330 field emission)/Phenom Table SEM / EDS/in-situ XRD analysis/ Profilometer)**
- **Cleanroom (Trained in standard photolithography, Lift-off process, thin film deposition, mask making, inspection, test station setup, and measurement. Collaboration for a MEMS pressure sensor fabrication)**
- **Sample Preparation (Sectioning, Mounting, Grinding, Polishing of ceramics and metallic samples)**

### EDUCATION

- **PhD Student, Materials Science and Engineering**  
Florida International University  
Adviser: Prof. Zhe Cheng  
*Jan 2013-Present*  
Miami, FL, USA  
GPA 3.93/4.00
- **Bachelor of Science in Materials Science and Engineering**  
Sharif University of Technology  
Title of thesis: Effect of heat treatment on the magnetic properties of mechanically alloyed nanocrystalline Fe-Ni-Si powders  
Adviser: Prof. Hamid-Reza Madaah Hosseini  
*Sept 2008- Sept 2012*  
Tehran, Iran  
GPA last 2 years:  
15.6/20.00

### PUBLICATIONS

- **Paniz Foroughi**, Armin Vahidmohammadi, Zhe Cheng, Synthesis, Processing, and Fundamental Reaction Mechanism Study for Nanocrystalline Boron Carbide powders, submitted to 39<sup>th</sup> International Conference and Expo on advanced ceramics and composites 2014.
- **Paniz Foroughi**, Mohammadamin Moghadis, Effect of Heat Treatment on Magnetic Properties of nanocrystalline Fe-Si-Ni Powders, International biennial conference on Ultrafine Grained and Nanostructured Materials 2013.
- Eddie Martinez, **Paniz Foroughi**, Zhe Cheng, Synthesis and Sintering of Nanoscale Hafnium Diboride Powders, submitted to 39<sup>th</sup> International Conference and Expo on advanced ceramics and composites 2014.
- Armin Vahidmohammadi, **Paniz Foroughi**, Zhe Cheng, Sinterability and Chemical Stability of BaZr<sub>0.1</sub>Ce<sub>0.7</sub>Y<sub>0.1</sub>Yb<sub>0.1</sub>O<sub>3-δ</sub> Proton Conducting Electrolyte for SOFCs, submitted to 39<sup>th</sup> International

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Conference and Expo on advanced ceramics and composites 2014.

### CERTIFICATIONS

- Certified to work with in-situ/ex-situ Raman Spectroscopy
- Certified to work with JEOL 6330 field emission Scanning Electron Microscope
- Certified to work with Noran system six thermo scientific EDS system
- Certified to work with Siemens Diffraktometer D5000 X-ray Diffraction System
- Certified to work with Phenom tabletop SEM
- Certified to work in the cleanroom

### PROFESSIONAL MEMBERSHIPS

- Member of Material Advantage
- Member of TMS student chapter
- Member of The American Ceramic Society

### COMPUTER SKILLS

- **General software:** Word, Excel, PowerPoint, Photoshop
- **Engineering software:** Match, Xpert, Solid Works, Auto CAD