Ali Mostaed

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Research Interests

- Diffusion, Nanocomposites, Nanostructures, Nanotechnology.

Education

- M.Sc. in Material Science and Engineering, 2006-2008, Faculty of Mechanical Engineering, K.N. Toosi University of Technology (KNTU), Tehran, Iran.
  Title of Thesis: "***Synthesis of Al-4.5wt%Cu alloy based Nanocomposites via Mechanical Alloying and investigation of its Mechanical Properties***", under supervision of Prof. A. Shokuhfar and Prof. H. Saghafian.
  Grade-Point Average (M.Sc.): Will be around: **3.47**. (**WITH HONOR**)
- B.Sc. in Metallurgy, 2002-2006, Department of Materials Engineering, Isfahan University of Technology[2] (IUT), Isfahan, Iran.
  Title of Thesis: "***Cathodic Protection of Reinforced Concrete***", under supervision of Prof. M. A. Golozar and Prof. K. Raiessi. Mark of Thesis: **3.9**.

Publications

- **A. Mostaed**, E. Mostaed, A. Shokuhfar, H. Saghafian and H. R. Rezaie, Defect and Diffusion Forum, Vols. 283-286, p.494 (2009).
- E. Mostaed, **A. Mostaed**, H. Saghafian, A. Shokuhfar and H. R. Rezaie, Defect and Diffusion Forum, Vols. 283-286, p.499 (2009).
- **A. Mostaed**, E. Mostaed, A. Shokuhfar, H. Saghafian and H. R. Rezaie "The Influence of Milling Time and Impact Force on the Mutual Diffusion of Al and Cu During Synthesis of Al-4.5wt%Cu Alloy via Mechanical Alloying", *4th International Conference on Diffusion in Solids and Liquids* (DSL2008), Barcelona, Spain, 2008.
- E. Mostaed, **A. Mostaed**, H. Saghafian, A. Shokuhfar and H. R. Rezaie "Effect of SiC Particles Volume Fraction on the Mutual Diffusion of Al and Cu During Fabrication of Al-

1. www.kntu.ac.ir
2. www.iut.ac.ir

4.5wt%Cu/SiC via Mechanical Alloying", *4th International Conference on Diffusion in Solids and Liquids* (DSL2008), Barcelona, Spain, 2008.

- **A. Mostaed**, M. Hashempour, E. Mostaed, H. Razavizadeh, A. Shokuhfar, H. R. Rezaie and H. Saghafian "Investigation on Fabrication of Nanosized Diffusionless Composite Powders; Al-Cu-SiC & W-Cu Systems", *2nd Iran-India Joint Conference on Nanotechnology (IIJCN-2009)*, Isfahan, Iran, 2009.
- **A. Mostaed**, K. Raissei, Sh. Hassani, M. A. Golozar "Corrosion of Steel in Reinforced Concrete at 3.5%wt NaCl Aquatic Solution", *11th Iranian Metallurgical Engineers Society Annual congress*, Isfahan, Iran, 2007.
- E. Mostaed, **A. Mostaed**, H. Saghafian, A. Shokuhfar and H. R. Rezaie "Effect of SiC Particles Volume Fraction on the Crystallite Size of Al-4.5wt%Cu/SiC Composites During Mechanical Alloying Process", *12th Iranian Metallurgical Engineers Society Annual congress*, Karaj, Iran, 2008. (**WITH AWARD**)
- **A. Mostaed**, E. Mostaed, A. Shokuhfar, H. Saghafian and H. R. Rezaie "Fabrication of Nanostructured Al-4.5wt%Cu Alloy and Al-4.5wt%Cu/SiC Composite via Mechanical Alloying", *Iranian Conference on Manufacturing Engineering* (ICME2009), Birjand, Iran, 2009.
- **A. Mostaed**, E. Mostaed, A. Shokuhfar, H. Saghafian and H. R. Rezaie "Effect of Milling Time and Ball-to-Powder Weight Ratio on the Crystallite Size of Al-4.5wt%Cu Alloy During Mechanical Alloying Process", *Iranian Conference on Manufacturing Engineering* (ICME2009), Birjand, Iran, 2009.
- E. Mostaed, **A. Mostaed**, K. Raissei, M. A. Golozar "Electrochemical Investigation on the Corrosion Behavior of Steel in Reinforced Concrete at 3.5%wt NaCl Aquatic Solution", *Steel Symposium 87*, Ahvaz, Iran, 2009.
- **A. Mostaed**, E. Mostaed, A. Shokuhfar, H. Saghafian and H. R. Rezaie "Effects of Reinforcing Particles Volume Fraction on the Crystallites Size of Al and Cu During Synthesis of Al-4.5wt%Cu Alloy Based Nanocomposites via Mechanical Alloying", *5th International Conference on Diffusion in Solids and Liquids* (DSL2009), Rome, Italy, 2009.
- A. Shokuhfar, H. R. Rezaie, H. Kaffash, E. Mostaed and **A. Mostaed** "Effects of Milling Time and Impact Force on the Mutual Diffusion of Cu and Fe During Synthesis of Nanostructured Fe-50%Cu Alloy via Mechanical Alloying Process", *5th International Conference on Diffusion in Solids and Liquids* (DSL2009), Rome, Italy, 2009.
- E. Mostaed, **A. Mostaed**, H. Saghafian, A. Shokuhfar and H. R. Rezaie "The Influence of Milling Time, Impact Force and SiC Particles Volume Fraction on the Crystallite Size During Fabrication of Al-4.5wt%Cu Alloy and Al-4.5wt%Cu/SiC via Mechanical Alloying", *International Conference on Materials for Advanced Technologies* (ICMAT2009), Singapore, 2009.

Teaching Assistant

- Material Science Laboratory, 2006-Now.

Computer

- Microsoft Office.
- Photoshop.
- ZWin (ZPlot & ZView).
- SoftCorr III & PowerSuit.

References

- Prof. A. Shokuhfar: shokuhfar@kntu.ac.ir
- Prof. H. Saghafian: saghafian@iust.ac.ir
- Prof. H. R. Rezaie: hrezaie@iust.ac.ir
- Prof. M. A. Golozar: golozar@cc.iut.ac.ir
- Prof. K. Raissei: k_raeissi@cc.iut.ac.ir