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Background

Morteza Azarbarmas received the following degrees in Materials engineering:

- B.S. from Sahand University of Technology, Tabriz, Iran, 2007
- M.S. from University of Tehran, Tehran, Iran, 2010
- PH.D. from K.N. Toosi University of Technology Publication, Tehran, Iran, 2016,

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• - Ph.D. Sabbatical in Polytechnic University of Catalonia, Barcelona, Spain, 2014

He is currently an assistant professor in the faculty of Materials Engineering (Sahand University of Technology, Tabriz, Iran).

Research Interests

- Metal Forming
- · Additive Manufacturing
- Microstructural Modeling
- Texture Analysis
- Metal Matrix Composites Casting

Publications:

Books:

Graphene in Nanotechnology World, M.S. Siadati, S.N. Hosseini, H. Aghamohammadi, M. Azarbarmas, A. Abdollahzade, K.N. Toosi University of Technology Publication, 2022, Tehran, Iran (In Persian).

Articles published in Journals:

- Babalou, Reza, Morteza Azarbarmas, and Konda Gokuldoss Prashanth. "Heat treatment and laser shock peening of AlSi10Mg alloy produced by selective laser melting: Microstructure, hardness and residual stress analysis." Materials Today Communications (2025): 112408.
- 2- Azarbarmas, Morteza, Meysam Nabizadeh Dizaj, and Ata Abdi. "Wear Behavior of CoCrMo Alloy Produced by Laser Powder Bed Fusion (LPBF) Process" Amirkabir Journal of Mechanical Engineering (2025)
- 3-Azarbarmas, Morteza. "Evaluating Effects of the Gating Ratio on the Casting Quality of a Steel Pump Body Using the Simulation." Journal of Metallurgical & Materials Engineering 35.1 (2024)
- 4- Meysam Nabizadeh Dizaj, Morteza Azarbarmas, Ata Abdi, The influence of heat treatment on the microstructure, hardness, and wear properties of CoCrMo alloy produced by powder bed fusion of metals using a laser beam (PBF-LB/M) process, Progress in Additive Manufacturing, 2024.
- 5- Morteza Azarbarmas, Modeling the Dynamic Recrystallization by Using Cellular Automaton: The Current Status, Challenges and Future Prospects, Iranian Journal of Materials Science & Engineering, 2020, 17.
- 6- M Azarbarmas, M Aghaie-Khafri, **Dynamic recrystallization and texture modeling of IN718 superalloy**, Modelling and Simulation in Materials Science and Engineering, 2017, 25.
- 7- M. Azarbarmas, M. Aghaie-Khafri, J.M. Cabrera, J. Calvo, **Microstructural evolution and constitutive equations** of Inconel 718 alloy under quasi-static and quasi-dynamic conditions, Journal of Materials and Design (ISI), 15 March 2016.
- 8- M. Azarbarmas, M. Aghaie-Khafri, J.M. Cabrera, J. Calvo, **Dynamic recrystallization mechanisms and twining evolution during hot deformation of Inconel 718,** Journal of Materials Science and Engineering A (ISI), 15 December 2016.
- 9- Sadegh Hoseinlaghab, Seyed Sajad Mirjavadi, Nasser Sadeghian, Iraj Jalili, M. Azarbarmas, Mohammad Kazem Besharati Givi, Influences of welding parameters on the quality and creep properties of friction stir welded polyethylene plates, Journal of Materials and Design (ISI), 15 February 2015.
- 10- Mostafa Karamouz, Mortaza Azarbarmas, Masoud Emamy, **On the conjoint influence of heat treatment and lithium content on microstructure and mechanical properties of A380 aluminum alloy**, Journal of Materials and Design (ISI), July 2014, 59.
- 11- Mostafa karamouz, Mortaza Azarbarmas*, Masoud Emamy, Mohammad Alipour, **Microstructure, hardness and tensile properties of A380 aluminum alloy with and without Li additions,** Journal of Materials Science and Engineering A (ISI), 10 October 2013, 582, 409-414.
- 12- M. Alipour, M. Azarbarmas, F. Heydari, M. Hoghoughi, M. Alidoost, M. Emamy, The effect of Al-8B grain refiner and heat treatment conditions on the microstructure, mechanical properties and dry sliding wear behavior of an Al-12Zn-3Mg-2.5Cu aluminum alloy, Journal of Materials and Design (ISI), June 2012, , 38, 64-73.
- 13- Mortaza Azarbarmas, Masoud Emamy, Jafar Rassizadehghani, Mohammad Alipour, Mostafa karamouz, The Influence of Beryllium Addition on the Microstructure and Mechanical Properties of Al–15%Mg₂Si In-situ Metal Matrix Composite, Journal of Materials Science and Engineering A (ISI), 25 October 2011, 528, (28), 8205-8211.
- 14- Mortaza Azarbarmas, Masoud Emamy, Mostafa karamouz, Mohammad Alipour Jafar Rassizadehghani, The effects of boron additions on the microstructure, hardness and tensile properties of in situ Al-15%Mg₂Si composite, Journal of Materials and Design (ISI), December 2011, 32, (10), (5049-5054).
- 15- Mortaza Azarbarmas, Masoud Emamy, Mohammad Alipour, **Study on fracture behaviour of Al-15%Mg₂Si metal matrix composite with and without beryllium additions**, Journal of Materials Science (ISI), November 2011, 46, (21), 6856–6862.

- 16- Alipour, M., Emamy, M., Ebrahimi, S. S., Azarbarmas, M., Karamouz, M., & Rassizadehghani, J. (2011). Effects of pre-deformation and heat treatment conditions in the SIMA process on properties of an Al-Zn-Mg-Cu alloy modified by Al-8B grain refiner, Journal of Materials Science and Engineering A (ISI), 2011, 528, (13-14), 4482-4490.
- 17- M. Karamouz, M. Emamy, M. Alipour, M. Azarbarmas, **The Effects of Li on the Tensile Properties of 380 Aluminum Alloys**, Journal of New Materials , 2011.
- 18- Mortaza Azarbarmas , Seyyed Mohammad Hossein Siadati, **A review: Graphene; A revolution in nanotechnology**, Journal of Nano World, 2012.

Articles published in Conferences/Book Chapters:

- 1- Mortaza Azarbarmas, Masoud Emamy, Jafar Rasizadeh, Mohammad Alipour, Mostafa karamouz, **The influence** of Boron on Properties of Al-15%Mg₂Si in situ composite, CCFA2010
- 2- M. Azarbarmas, M. Emamy, M. Alipour, M. karamouz, **Effects of Boron on Microstructure and Tensile Properties of Al-Mg**, **Si Metal Matrix Composite**, NUMIFORM2010
- 3- M. Alipour, M. Emamy, M. Azarbarmas, M. karamouz, **Effects of Al-5Ti-1B master alloy on the microstructural evaluation of a highly alloyed aluminum alloy produced by SIMA process**, NUMIFORM2010.
- 4- Mortaza Azarbarmas, Masoud Emamy, Jafar Rasizadeh, Mohammad Alipour Mostafa karamouz, **The Influence of Boron on the Tensile Properties of Al-Mg2Si in Situ Composite**, Iccst2011.
- 5- Mortaza Azarbarmas, Masoud Emamy, , Jafar Rassizadehghani, Mohammad Alipour , Mostafa karamouz, Modification of Al- Mg_2Si In-Situ Composite by Boron, U.S.A., TMS2011; Book Chapter in Supplemental Proceedings: General Paper Selections.
- 6- Mortaza Azarbarmas, Masoud Emamy, Jafar Rassizadehghani, Mohammad Alipour and Mostafa karamouz, Microstructural Development of Al-15%Mg2Si in Situ Composite with Be Addition, U.S.A., TMS2011; Book Chapter in Supplemental Proceedings: General Paper Selections.
- 7- Mortaza Azarbarmas, Masoud Emamy, Jafar Rassizadehghani, Mohammad Alipour, Mostafa karamouz, **The Effects of Be on mechanical properties of Al-Mg2Si in Situ Composite**, U.S.A., TMS2011; Book Chapter in Supplemental Proceedings: General Paper Selections.
- 8- Mortaza Azarbarmas, Masoud Emamy, Jafar Rassizadehghani, Mostafa karamouz, Mohammad Alipour, **The effects of cooling rate on the microstructure and hardness of Al-15%Mg2Si in situ composite with Boron**, U.S.A., TMS2011; Book Chapter in Supplemental Proceedings: General Paper Selections.
- 9- Mohammad Alipour, Masoud Emamy, Jafar Rasizadeh, Mostafa karamouz, Mortaza Azarbarmas, Effects of Al-AB grain refiner on the structure, hardness and tensile properties of a new developed super high strength aluminum alloy, U.S.A., TMS2011; Book Chapter in Supplemental Proceedings: General Paper Selections.
- 10- Mohammad Alipour, Masoud Emamy, Jafar Rasizadeh, Mostafa karamouz, Mortaza Azarbarmas, Effects of Al-5Ti-1B grain refiner on the structure, hardness and tensile properties of a new developed super high strength aluminum alloy, U.S.A., TMS2011; Book Chapter in Supplemental Proceedings: General Paper Selections.
- 11- Mohammad Alipour, Masoud Emamy, Jafar Rasizadeh, Mostafa karamouz, Mortaza Azarbarmas, The effects of Al-5Ti-1B grain refiner and heat treatment on the microstructure and dry sliding wear behavior of a new developed super high strength aluminum alloy, U.S.A., TMS2011; Book Chapter in Supplemental Proceedings: General Paper Selections.
- 12- M. Alipour, M. Emamy, J. Rasizadeh, M. Azarbarmas, M. Karamouz, Effect of predeformation and heat treatment conditions in the modified SIMA process on microstructural of a new developed super high-strength aluminum alloy modified by Al-8B grain refiner, U.S.A., TMS2011; Book Chapter in Supplemental Proceedings: General Paper Selections.
- 13- Mostafa karamouz, Masoud Emamy, Jafar Rasizadeh, Mohammad Alipour, Mortaza Azarbarmas, **The Influence of Li on Properties of 380 Aluminum Casting Alloys**, U.S.A., TMS2011; Book Chapter in Supplemental Proceedings: General Paper Selections.
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