# Mahmoud Nili Ahmadabadi, Ph.D.

Faculty of Metallurgy and Materials Engineering

University of Tehran

Tel (Direct): +98 (21)82084078

email: nili@ut.ac.ir

Website:

**EDUCATION**

**Ph.D In Materials Processing**Tohoku 1991-1994  
**M.Sc In Recognition and Selection of Metallic Materials**Sharif University of Technology 1984-1987  
**B.Sc In Materials Science and Engineering**Shiraz 1974-1981

**PUBLICATIONS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **2603** | **28** | **191** | **27** | **3** |
| Citations | h-Index | Article | Conference | Book |

***Articles***

**1.** Microstructural engineering in carbon steel walls printed by directed energy deposition to enhance mechanical properties through heat-input control. Khebreh Farshchi Yasamin, Khodabakhshi Farzad, Mohri Maryam, Shirazi Hassan, Nili Ahmadabadi Mahmoud (2023)., Journal of Materials Research and Technology-JMR&T, 28(1).  
  
**2.** Enhanced deformability of WE43 magnesium alloy by activation of non-basal slip and twinning deformation modes in the equal channel angular pressing at room temperature. Daghigh Milad, Mohri Maryam, Ghanbari Hossein, Nili Ahmadabadi Mahmoud (2023)., MATERIALS LETTERS, 351(351), 135047.  
  
**3.** Significance of adiabatic heating on phase transformation in titanium-based alloys during severe plastic deformation. Shahmir Hamed, Nili Ahmadabadi Mahmoud, Seop Kim Hyoung, Langdon Terence G. (2023)., MATERIALS CHARACTERIZATION, 203(203), 113091.  
  
**4.** Significance of Mn concentration on aging behavior, microstructure evolution and mechanical properties of Fe–Ni–Mn alloys. Rasooli Novin Rasooli, Shirazi Hassan, Nili Ahmadabadi Mahmoud (2023)., Journal of Materials Research and Technology-JMR&T, 24(24), 1-15.  
  
**5.** The effect of thermal and strain-induced aging on the mechanical behavior of room temperature ECAP processing of WE43 magnesium alloy. Daghigh Milad, Mohri Maryam, Ghanbari Hossein, Nili Ahmadabadi Mahmoud (2023)., Journal of Materials Research and Technology-JMR&T, 24(24), 8508-8521.  
  
**6.** Effect of low-temperature precipitates on microstructure and pseudoelasticity of an Fe–Mn–Si-based shape memory alloy. Khodaverdi Hesam, Mohri Maryam, Sabet Ghorabaei Amir, Ghafoori Elyas, Nili Ahmadabadi Mahmoud (2023)., MATERIALS CHARACTERIZATION, 195(195), 112486.  
  
**7.** Enhanced pseudoelasticity of an Fe–Mn–Si-based shape memory alloy by applying microstructural engineering through recrystallization and precipitation. Khodaverdi Hesam, Mohri Maryam, Ghafoori Elyas, Sabet Ghorabaei Amir, Nili Ahmadabadi Mahmoud (2022)., Journal of Materials Research and Technology-JMR&T, 21(21), 2999-3013.  
  
**8.** Evaluation of texture weakening and microstructural evolution in an Fe–10Ni–7Mn martensitic steel severely deformed by six turns of high-pressure torsion. Mousavi Anijdan S.H., Koohdar H.R., Nili Ahmadabadi Mahmoud, Jafarian H.R., Langdon Terence G. (2022)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 851(851), 143660.  
  
**9.** Thermodynamically-guided machine learning modelling for predicting the glass-forming ability of bulk metallic glasses. Ghorbani Alireza, Askari Amirhossein, Malekan Mehdi, Nili Ahmadabadi Mahmoud (2022)., Scientific Reports, 12(1).  
  
**10.** Significant improvement in the thermal cycling stability of Ni44.8Ti45.8Hf5Cu5 shape memory alloy by high pressure torsion and post-deformation annealing. Baradari Sadjad, Resnina Natalia, Belyaev Sergey, Prokofiev Egor, Valiev Ruslan Z., Nili Ahmadabadi Mahmoud (2022)., Journal of Materials Research and Technology-JMR&T, 19(19), 2215-2224.  
  
**11.** Cyclic Stability of Ni44.8Cu5Ti45.2Hf5 and Zr-Substituted Ni44.8Cu5Ti40.2Hf5Zr5 Medium-Entropy Shape Memory Alloys. Baradari Sadjad, Resnina Natalia, Belyaev Sergey, Nili Ahmadabadi Mahmoud (2022)., ADVANCED ENGINEERING MATERIALS, 24(10), 1-13.  
  
**12.** Upgrading of superior strength–ductility trade-off of CoCrFeNiMn high-entropy alloy by microstructural engineering. Mehranpour Mohammad Sajad, Shahmir Hamed, Asghari-rad Peyman, Hosseinzadeh Mohammadreza, Rasooli Novin, Kim Hyoung Seop, Nili Ahmadabadi Mahmoud (2022)., Materialia, 22(101394), 101394.  
  
**13.** Structural evolution and thermal stability of functionally graded NiTi nano-glass thin films alloys during crystallization. Mohri Maryam, Forghani Farsad, Nili Ahmadabadi Mahmoud (2022)., MATERIALS CHARACTERIZATION, 187(111850), 111850.  
  
**14.** Free volume formation and the high strength of pure Mg after room temperature core-sheath ECAP passes. Heydarinia Ali, Mohri Maryam, Asghari-rad Peyman, Seop Kim Hyoung, Nili Ahmadabadi Mahmoud (2022)., Journal of Materials Research and Technology-JMR&T, 18(1), 147-158.  
  
**15.** Superplastic formability of the developed Zr40Hf10Ti5Al10Cu25Ni10 high entropy bulk metallic glass with enhanced thermal stability. Kouhi Dehkordi Zahra, Malekan Mehdi, Nili Ahmadabadi Mahmoud (2022)., JOURNAL OF NON-CRYSTALLINE SOLIDS, 576(121265), 121265.  
  
**16.** Significance of Ti addition on precipitation in CoCrFeNiMn high-entropy alloy. Mehranpour Mohammad Sajad, Shahmir Hamed, Derakhshandeh Alireza, Nili Ahmadabadi Mahmoud (2021)., JOURNAL OF ALLOYS AND COMPOUNDS, 888(161530), 161530.  
  
**17.** Martensitic phase transformation and shape memory properties of the as-cast NiCuTiHf and NiCuTiHfZr alloys. Baradari Sadjad, Resnina Natalia, Belyaev Sergey, Nili Ahmadabadi Mahmoud (2021)., JOURNAL OF ALLOYS AND COMPOUNDS, 888(161534), 161534.  
  
**18.** Microstructure tailoring to enhance mechanical properties in CoCrFeNiMn high-entropy alloy by Ti addition and thermomechanical treatment. حامد شاهمیر, Mehranpour Mohammad Sajad, Derakhshandeh Alireza, Nili Ahmadabadi Mahmoud (2021)., MATERIALS CHARACTERIZATION, 182(111513), 111513.  
  
**19.** Bulk NiTiCuCo shape memory alloys with ultra-high thermal and superelastic cyclic stability. Ahadi Aslan, Sabet Ghorabaei Amir, Shirazi Hassan, Nili Ahmadabadi Mahmoud (2021)., SCRIPTA MATERIALIA, 200(1), 113899.  
  
**20.** Effects of prior austenite grain size and phase transformation temperature on bainitic ferrite formation in multi-constituent microstructures of a strong ultra-low-carbon steel. Sabet Ghorabaei Amir, Nili Ahmadabadi Mahmoud (2021)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 815(1), 141300.  
  
**21.** Precipitation kinetics in heavily deformed CoCrFeNiMn high entropy alloy. Mehranpour Mohammad Sajad, حامد شاهمیر, Nili Ahmadabadi Mahmoud (2021)., MATERIALS LETTERS, 288(1), 129359.  
  
**22.** Microstructural evolution and mechanical properties of CoCrFeNiMnTi x high‐entropy alloys. حامد شاهمیر, Derakhshandeh Alireza, Hallstedt brian, Nili Ahmadabadi Mahmoud (2021)., MATERIALWISSENSCHAFT UND WERKSTOFFTECHNIK, 52(4), 441-451.  
  
**23.** Evidence of FCC to HCP and BCC-martensitic transformations in a CoCrFeNiMn high-entropy alloy by severe plastic deformation. حامد شاهمیر, Asghari-rad Peyman, Mehranpour Mohammad Sajad, Forghani Farsad, Kim Hyoung Seop, Nili Ahmadabadi Mahmoud (2021)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 807(1), 140875.  
  
**24.** Phase evolution and mechanical properties of an intercritically-annealed Fe–10Ni–7Mn (wt. %) martensitic steel severely deformed by high-pressure torsion. Javadzadeh Kalahroudi Faezeh, حمیدرضا کوهدار, Langdon T.g, Nili Ahmadabadi Mahmoud (2021)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 804(1), 140519.  
  
**25.** Engineering mechanical properties by controlling the microstructure of an Fe–Ni–Mn martensitic steel through pre-cold rolling and subsequent heat treatment. حمیدرضا کوهدار, Hakimipour Pouya, حمیدرضا جعفریان, Langdon T.g, Nili Ahmadabadi Mahmoud (2021)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 804(1), 140760.  
  
**26.** The effect of high-pressure torsion on the microstructure and outstanding pseudoelasticity of a ternary Fe–Ni–Mn shape memory alloy. حمیدرضا کوهدار, Nili Ahmadabadi Mahmoud, Javadzadeh Kalahroudi Faezeh, Jafarian Hamidreza, Langdon T.g (2021)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 802(1), 140647.  
  
**27.** Microstructure and excess free volume of severely cold shape rolled CoCrFeNiMn high entropy alloy. حامد شاهمیر, Mehranpour Mohammad Sajad, Nili Ahmadabadi Mahmoud (2020)., JOURNAL OF ALLOYS AND COMPOUNDS, 840(1), 155672.  
  
**28.** CoCrFeNiMn high entropy alloy microstructure and mechanical properties after severe cold shape rolling and annealing. Mehranpour Mohammad Sajad, حامد شاهمیر, Nili Ahmadabadi Mahmoud (2020)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 793(1), 139884.  
  
**29.** On the microstructure and mechanical properties of a two-way shape memory NiTi/NiTiCu bi-layer diaphragm. GhaziAskari-Naeini Farzad, Taghizadeh Milad, MOHRI MARYAM, Nili Ahmadabadi Mahmoud (2020)., MATERIALS & DESIGN, 188(188), 108464.  
  
**30.** Nanostructural Evolution and Deformation Mechanisms of Severely Deformed Pure Fe. Forouzanmehr Nazanin, Jafarian Hamidreza, Samadi Khoshkhoo Mohsen, Bonisch Matthias, Nili Ahmadabadi Mahmoud (2020)., METALS AND MATERIALS INTERNATIONAL, 27(6), 1798-1807.  
  
**31.** Effect of Cu on Amorphization of a TiNi Alloy during HPT and Shape Memory Effect after Post‐Deformation Annealing. حامد شاهمیر, Nili Ahmadabadi Mahmoud, Mohamadi Mehdi, Huang Yi, Andrezejczuk Mariusz, Lawandowska Matgorzata, Langdon T.g (2019)., ADVANCED ENGINEERING MATERIALS, 22(1), 1900387.  
  
**32.** Development and Microstructural Characterization of a New Wrought High Entropy Superalloy. Shafiee Ahad, Nili Ahmadabadi Mahmoud, Kim Hyoung Seop, Jahazi Mohammad (2019)., METALS AND MATERIALS INTERNATIONAL, 26(5), 591-602.  
  
**33.** Diffuse γ/γ′ interfaces in the hierarchical dual-phase nanostructure of a Ni-Al-Ti alloy. Forghani Farsad, Moon Jongun, Han Jong Chan, Rahimi Reza, Abbaschian Reza, Park Chan Gyung, Kim Hyoung Seop, Nili Ahmadabadi Mahmoud (2019)., MATERIALS CHARACTERIZATION, 153(1), 284-293.  
  
**34.** Crystallization kinetics of Au50Cu25.5Ag7.5Si17 bulk metallic glass under continuous and iso-thermal heating. رحیمی چگنی مریم, Nili Ahmadabadi Mahmoud, Malekan Mehdi (2019)., metallurgy and materials engineering, 22(1).  
  
**35.** On the nano-glass formation of the Ni–Ti thin films and related micro-structure and mechanical properties by controlling sputtering conditions. Mohry Maryam, Nili Ahmadabadi Mahmoud (2019)., Materials Research Express, 6(7), 076421.  
  
**36.** Precipitation behaviour and mechanical properties of a new wrought high entropy superalloy. Shafiee Ahad, Moon Jongun, Hyoung Seop Kim, Jahazi Mohammad, Nili Ahmadabadi Mahmoud (2019)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 749(1), 271-280.  
  
**37.** On the microstructure and mechanical properties of an Fe-10Ni-7Mn martensitic steel processed by high-pressure torsion. Javadzadeh Kalahroudi Faezeh, Koohdar Hamidreza, Jafarian Hamidreza, Langdon T.g, Scheffran Jurgen, Nili Ahmadabadi Mahmoud (2019)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 749(1), 27-34.  
  
**38.** On the control of structural/compositional ratio of coherent order-disorder interfaces. Forghani Farsad, Han Jong Chan, Moon Jongun, Abbaschian Reza, Park Chan Gyung, Kim Hyoung Seop, Nili Ahmadabadi Mahmoud (2019)., JOURNAL OF ALLOYS AND COMPOUNDS, 777(1), 1222-1233.  
  
**39.** Cold rolling and intercritical annealing of C-Mn steel sheets with different initial microstructures. Karimi Yalda, Hossein Nedjad Siamak, Nili Ahmadabadi Mahmoud, Shirazi Hassan, Zargari Hamed (2018)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 736(1), 392-399.  
  
**40.** Effect of Severe Plastic Deformation byHigh Pressure Torsion on the Microstructure, Mechanical Properties and Pseudoelastic Behavior of the Fe-10Ni-7Mn (wt.%) Steel after Intercritical Annealing treatment. Javadzadeh Kalahroudi Faezeh, Koohdar Hamidreza, Shirazi Hassan, Jafarian Hamidreza, Nili Ahmadabadi Mahmoud (2018)., metallurgy and materials engineering, 21(3).  
  
**41.** Shape memory characteristics of a nanocrystalline TiNi alloy processed by HPT followed by post-deformation annealing. Shahmir Hamed, Nili Ahmadabadi Mahmoud, Huang Yi, Myun Jung Jai, Seop Kim Hyoung, Langdon T.g (2018)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 734(734), 445-452.  
  
**42.** Microstructure and mechanical properties of ultrafine-grained titanium processed by multi-pass ECAP at room temperature using core–sheath method. Derakhshandeh Alireza, Shahmir Hamed, Nili Ahmadabadi Mahmoud (2018)., JOURNAL OF MATERIALS RESEARCH, 125(1), 1-9.  
  
**43.** Effect of Ti on phase stability and strengthening mechanisms of a nanocrystalline CoCrFeMnNi high-entropy alloy. Shahmir Hamed, Nili Ahmadabadi Mahmoud, Shafiee Ahad, Andrzejczuk Mariusz, Langdon T.g, Lewandowska Malgorzata (2018)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 725(1), 196-206.  
  
**44.** Effect of a minor titanium addition on the superplastic properties of a CoCrFeNiMn high-entropy alloy processed by high-pressure torsion. Shahmir Hamed, Nili Ahmadabadi Mahmoud, Shafiee Ahad, Langdon T.g (2018)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 718(1), 468-476.  
  
**45.** A Combined Analytic, Numeric, and Experimental Investigation Performed on NiTi/NiTiCu Bi-Layer Composites under Tensile Loading. Taghizadeh Milad, Nili Ahmadabadi Mahmoud, Baghani Mostafa, Malekoshoaraei Mohammad Hassan (2018)., ADVANCED ENGINEERING MATERIALS, 20(2), 1700395.  
  
**46.** Microstructure evolution during austenite reversion in Fe-Ni martensitic alloys. Shirazi Hassan, Miyamoto G., Hossein Nedjad Siamak, Chiba T., Nili Ahmadabadi Mahmoud, Furuhara Tadashi (2018)., ACTA MATERIALIA, 144(144), 269-280.  
  
**47.** Microstructural study and simulation of intrinsic two-way shape memory behavior of functionally graded Ni-rich/NiTiCu thin film. Mohry Maryam, Taghizadeh Milad, Wang Di, Hahn Horst, Nili Ahmadabadi Mahmoud (2018)., MATERIALS CHARACTERIZATION, 135(135), 317-324.  
  
**48.** Adjusting shape memory and pseudoelastic properties with thermal recovery in NiTi/NiTiCu bi-layer composite aided by FEM simulation. Taghizadeh Milad, Nili Ahmadabadi Mahmoud, Baghani Mostafa, Malekoshoaraei Mohammad Hassan, Habibi Parsa Mohammad (2017)., metallurgy and materials engineering, 20(3), 148-161.  
  
**49.** On the Stability of Reversely Formed Austenite and Related Mechanism of Transformation in an Fe-Ni-Mn Martensitic Steel Aided by Electron Backscattering Diffraction and Atom Probe Tomography. Koohdar Hamidreza, Nili Ahmadabadi Mahmoud, Habibi Parsa Mohammad, Jafarian Hamidreza, Bhattacharjee Tilak, Tsuji Nobuhiro (2017)., METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, 48(11), 5244-5257.  
  
**50.** On the spinodal decompositon phenomena in a Ni-Al alloy system aided by thermodynamic calculaton. Forghani Farsad, Nili Ahmadabadi Mahmoud, Abbaschian Reza, Asadi Hamid (2017)., Metallurgical Engineering, 20(2), 72-82.  
  
**51.** Correlation between poly-modal grain size and peculiar mechanical properties of pure aluminum deformed by RCSR process. Mirab Saeideh, Nili Ahmadabadi Mahmoud, Khajezadeh Ali, Jafarian Hamidreza (2017)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 700(1), 416-424.  
  
**52.** Hardening and thermal stability of a nanocrystalline CoCrFeNiMnTi0.1 high-entropy alloy processed by high-pressure torsion. حامد شاهمیر, Nili Ahmadabadi Mahmoud, Shafiee Ahad, Langdon T.g (2017)., IOP Conference Series: Materials Science and Engineering, 194(1), 012017.  
  
**53.** The Effect of "Repetitive Corrugation and Straightening by Rolling" (RCSR) Process above Md30 temperature on the Microstructure of 304 stainless steel. Ahmadzadeh Salout Shima, Nili Ahmadabadi Mahmoud, Shirazi Hassan (2017)., metallurgy and materials engineering, 20(1), 15-25.  
  
**54.** A Significant Improvement in the Mechanical Properties of AISI 304 Stainless Steel by a Combined RCSR and Annealing Process. Asghari-rad Peyman, Nili Ahmadabadi Mahmoud, Shirazi Hassan, Koldorf Sebastian, Koldorf Sebastian (2016)., ADVANCED ENGINEERING MATERIALS, 19(3), 1600663.  
  
**55.** The effect of interface thickness on shape memory and superelastic behavior of NiTi bi-layer composite. Hosseini Noorabadi Sepideh Sadat, Nili Ahmadabadi Mahmoud (2016)., metallurgy and materials engineering, 19(4), 249-259.  
  
**56.** Development of an oxide-dispersion-strengthened steel by introducing oxygen carrier compound into the melt aided by a general thermodynamic model. Moghadasi Mohammad Amin, Nili Ahmadabadi Mahmoud, Forghani Farsad, Kim Hyoung Seop (2016)., Scientific Reports, 6(1), 38621.  
  
**57.** Room Temperature Flow Behavior of Ti Deformed by Equal-Channel Angular Pressing Using Core-Sheath Method. Derakhshandeh Alireza, Nili Ahmadabadi Mahmoud, Khajezadeh Ali, Shahmir Hamed (2016)., ADVANCED ENGINEERING MATERIALS, 19(2), 1600552.  
  
**58.** The analysis of severely deformed pure Fe structure aided by X-ray diffraction profile. Forouzanmehr Nazanin, Nili Ahmadabadi Mahmoud, Bonisch Matthias (2016)., PHYSICS OF METALS AND METALLOGRAPHY, 117(6), 624-633.  
  
**59.** Evaluation of structure and mechanical properties of Ni-rich NiTi/Kapton composite film. Mohry Maryam, Nili Ahmadabadi Mahmoud, Pouryazdanpanah Mohsen, Hahn Horst (2016)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 668(668), 13-19.  
  
**60.** On the Deformation Analysis during RCSR Process Aided by Finite Element Modeling and Digital Image Correlation. Mirab Saeideh, Nili Ahmadabadi Mahmoud, Khajezadeh Ali, Abshirini Mohamad, Habibi Parsa Mohammad, Soltani Naser (2016)., ADVANCED ENGINEERING MATERIALS, 18(8), 1434-1443.  
  
**61.** Semi-Solid Microstructural Evoluton of Severely Deformed AISI 304 Stainless Steel. Asghari-rad Peyman, Nili Ahmadabadi Mahmoud, Shirazi Hassan (2016)., Metallurgical Engineering, 19(1), 6-20.  
  
**62.** Observation of pseudoelasticity in a cold rolled Fe–Ni–Mn martensitic steel. Koohdar Hamidreza, Nili Ahmadabadi Mahmoud, Habibi Parsa Mohammad, Shirazi Hassan, Ghasemi Nansa Hadi, حمیدرضا جعفریان (2016)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 658(658), 86-90.  
  
**63.** On the microstructure and mechanical properties of severely cold shape rolled Cu. Forouzanmehr Nazanin, Nili Ahmadabadi Mahmoud, Samadi Khoshkhoo Mohsen (2016)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 650(650), 264-272.  
  
**64.** Phase transformation and structure of functionally graded Ni–Ti bi-layer thin films with two-way shape memory effect. Mohry Maryam, Nili Ahmadabadi Mahmoud, Huang Yi, Myun Jung Jai, Seop Kim Hyoung, Langdon Terence G (2015)., SENSORS AND ACTUATORS A-PHYSICAL, 228(228), 151-158.  
  
**65.** Crystallization study of amorphous sputtered NiTi bi-layer thin film. Mohry Maryam, Nili Ahmadabadi Mahmoud, Sai Kiran Chakravadhanula Venkata (2015)., MATERIALS CHARACTERIZATION, 103(103), 75-80.  
  
**66.** Microstructure and mechanical behavior of a shape memory Ni–Ti bi-layer thin film. Mohry Maryam, Nili Ahmadabadi Mahmoud, Ivanisenko Julia, Schwaiger Ruth, Hahn B Horst, Kiran Chakravadhanula Venkata Sai (2015)., Thin Solid Films, 583(583), 245-254.  
  
**67.** Annealing behavior and shape memory effect in NiTi alloy processed by equal-channel angular pressing at room temperature. Shahmir Hamed, Nili Ahmadabadi Mahmoud, Langdon Terence G., Ting Wang Chuan, Myun Jung Jai, Seop Kim Hyoung, Langdon Terence (2015)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 629(629), 16-22.  
  
**68.** Using dilatometry to study martensitic stabilization and recrystallization kinetics in a severely deformed NiTi alloy. Shahmir Hamed, Nili Ahmadabadi Mahmoud, Razaghi Alireza, Mohammadi Mahdi, Langdon Terence G., Myun Jung Jai, Seop Kim Hyoung, Langdon Terence (2015)., JOURNAL OF MATERIALS SCIENCE, 50(11), 4003-4011.  
  
**69.** Thermal behavior of Fe40Co8Cr15Mo13Y2C16B6 bulk metallic glass with reference to irreversible structural relaxation. Sae Fat, Nili Ahmadabadi Mahmoud (2015)., MATERIALS LETTERS, 143(143), 108-111.  
  
**70.** Functionally Graded Shape-Memory and Pseudoelastic Response in Ni-Rich/Ti-Rich and Vice Versa NiTi Multilayer Thin Films Deposited on Si(111). Mohry Maryam, Nili Ahmadabadi Mahmoud (2015)., JOM, 67(7), 1585-1593.  
  
**71.** Shape memory effect in nanocrystalline NiTi alloy processed by high-pressure torsion. Shahmir Hamed, Nili Ahmadabadi Mahmoud, Myun Jung Jai, Huang Yi, Hyoung Seop Kimb, Langdon Terence G. (2015)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 626(629), 203-206.  
  
**72.** Development of pseudoelasticity in Fe–10Ni–7Mn (wt%) high strength martensitic steel by intercritical heat treatment and subsequent ageing. Koohdar Hamidreza, Nili Ahmadabadi Mahmoud, Habibi Parsa Mohammad, Jafarian H.r. (2015)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 621(621), 52-60.  
  
**73.** Evaluating the Room Temperature ECAP Processing of a NiTi Alloy via Simulation and Experiments. Shahmir Hamed, Nili Ahmadabadi Mahmoud, Mansouri Arani Mojtaba, Khajezadeh Ali, Langdon Terence G. (2014)., ADVANCED ENGINEERING MATERIALS, 17(4), 532-538.  
  
**74.** On the Super-Elastic and Phase Transformation of a Novel Ni-Rich/NiTiCu Bi-Layer Thin Film. Mohry Maryam, Nili Ahmadabadi Mahmoud, Ivanisenko Julia (2014)., ADVANCED ENGINEERING MATERIALS, 17(6), 856-865.  
  
**75.** Prediction of Temperatures of Austenite Equilibrium Transformations in Steels During Thermomechanical Processing. Samadian Pedram, Habibi Parsa Mohammad, Nili Ahmadabadi Mahmoud, Mirzadeh Soltanpour Hamed (2014)., JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, 23(10), 3710-3717.  
  
**76.** Microstructural Evolution of Semi-Solid Type 304 Stainless Steel Deformed Severely by ECAP. Toofaninejad Mohsen, Nili Ahmadabadi Mahmoud, Shirazi Hasan (2014)., Diffusion and Defect Data Pt.B: Solid State Phenomena, 217-218(217), 99-104.  
  
**77.** Diffusion evaluation of Cu in NiTi Bi-layer thin film interface. Mohry Maryam, Nili Ahmadabadi Mahmoud, Flege Stefan (2014)., JOURNAL OF ALLOYS AND COMPOUNDS, 594(594), 87-92.  
  
**78.** Microstructural characteristics and second-phase particles in yttrium-bearing Fe-10Ni-7Mn martensitic steels. Forghani Farsad, Nili Ahmadabadi Mahmoud (2014)., JOURNAL OF RARE EARTHS, 32(4), 326-333.  
  
**79.** Strain-induced martensite to austenite reverse transformation in an ultrafine-grained Fe–Ni–Mn martensitic steel. Ghasemi-nanesa Hossein, Nili Ahmadabadi Mahmoud, Koohdar Hamidreza, Habibi Parsa Mohammad, حسین نژاد سیامک, Alidokht S.a., Langdon Terence G. (2014)., PHILOSOPHICAL MAGAZINE, 94(13), 1493-1507.  
  
**80.** Nano- and Microvoid Formation in Ultrafine-Grained Martensitic Fe-Ni-Mn Steel After Severe Cold Rolling. Ghasemi Nansa Hadi, Nili Ahmadabadi Mahmoud, Mirsepasi Arya, Zamani Cyrus (2014)., METALS AND MATERIALS INTERNATIONAL, 20(2), 201-205.  
  
**81.** On the subsurface deformation of two different Fe-based bulk metallic glasses indented by Vickers micro hardness. Askari Paykani Mohsen, Nili Ahmadabadi Mahmoud, Seifoddini Amir (2014)., INTERMETALLICS, 46(46), 118.125.  
  
**82.** Nano- and microvoid formation in ultrafine-grained martensitic Fe-Ni-Mn steel after severe cold rolling. Ghasemi Nansa Hadi, Nili Ahmadabadi Mahmoud, Mirsepasi Arya, Zamani Cyrus (2014)., METALS AND MATERIALS INTERNATIONAL, 20(2), 201-205.  
  
**83.** Control of Superelastic Behavior of NiTi Wires Aided by Thermomechanical Treatment with Reference to Three-Point Bending. Shahmir Hamed, Nili Ahmadabadi Mahmoud, Naghdi Fariba, Habibi Parsa Mohammad, Haririan Ismaeil (2014)., JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, 23(4), 1386-1391.  
  
**84.** Evaluating a New Core-Sheath Procedure for Processing Hard Metals by Equal-Channel Angular Pressing. Shahmir Hamed, Nili Ahmadabadi Mahmoud, Mansouri Arani Mojtaba, Khajezade Ali, Langdon T.g (2014)., ADVANCED ENGINEERING MATERIALS, 192(193), 1-9.  
  
**85.** Evolution of microstructure and hardness in NiTi shape memory alloys processed by high-pressure torsion. Shahmir Hamed, Nili Ahmadabadi Mahmoud, Huang Yi, Langdon Terence G. (2014)., JOURNAL OF MATERIALS SCIENCE, 49(8), 2998-3009.  
  
**86.** The effect of liquid phase separation on the Vickers microindentation shear bands evolution in a Fe-based bulk metallic. Askari Paykani Mohsen, Nili Ahmadabadi Mahmoud, Seifoddini Amir (2013)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 585(585), 363-370.  
  
**87.** Free volume study of severely plastic deformed pure Fe. Forouzanmehr Nazanin, Nili Ahmadabadi Mahmoud (2013)., Advanced Materials Research, 829(829), 110-114.  
  
**88.** Investigating on the reverse transformation of martensite to austenite and Pseudoelastic behavior in Ultrafine-Grained Fe-10Ni-7Mn (wt %) Steel processed by heavy cold rolling. Koohdar Hamidreza, Nili Ahmadabadi Mahmoud, Habibi Parsa Mohammad, Ghasemi Nansa Hadi (2013)., Advanced Materials Research, 829(829), 25-29.  
  
**89.** EBSD and DTA Characterization of A356 Alloy Deformed by ECAP During Reheating and Partial Re-melting. Moradi Marzyeh, Nili Ahmadabadi Mahmoud, پورگنجی بهرنگ, حیدریان بشیر, فوروهارا تاداشی (2013)., METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, 192(192), 347-352.  
  
**90.** Effect of equal channel angular pressing on the microstructure and mechanical properties of AISI type 304 austenitic stainless steel. Toofaninejad Mohsen, Nili Ahmadabadi Mahmoud (2013)., Advanced Materials Research, 829(829), 86-90.  
  
**91.** Development of high Mo carbide free thick section nodular cast iron by partial melting homogenisation. Rahgozar Navid, Nili Ahmadabadi Mahmoud, Forghani Farsad (2013)., JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY, 29(11), 1346-1353.  
  
**92.** On the flow and mechanical behavior of Al matrix composite reinforced by nickel based (90% Ni-10% Cr) wires during equal channel angular pressing. Mirab Saeideh, Nili Ahmadabadi Mahmoud (2013)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 583(583), 43-51.  
  
**93.** On the filling of semi-solid during thixocasting. Seyed Vakili Seyed Vahid, Nili Ahmadabadi Mahmoud (2013)., Diffusion and Defect Data Pt.B: Solid State Phenomena, 192(193), 347-352.  
  
**94.** The effect of liquid phase separation on the Vickers micro indentation shear bands evolution in a Fe-based bulk metallic glass. Askari Paykani Mohsen, Nili Ahmadabadi Mahmoud, Seifoddini Amir (2013)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 585(585), 363-370.  
  
**95.** The processing of NiTi shape memory alloys by equal-channel angular pressing at room temperature. Shahmir Hamed, Nili Ahmadabadi Mahmoud, Langdon T.g, Mansouri-arani Mojtaba (2013)., Materials Science and Engineering: C, A(576), 178-184.  
  
**96.** New (Fe0.9Ni0.1)77Mo5P9C7.5B1.5 glassy alloys with enhanced glass-forming ability and large compressive strain. Seifoddini Amir, Stoica Mihai, Nili Ahmadabadi Mahmoud, Heshmati Manesh Saeid, Kuhn Uta, Eckert Jurgen (2013)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 1(560), 575-582.  
  
**97.** Study of thermomechanical treatment on mechanical - induced phase transformation of NiTi and TiNiCu wires. Seyyed Aghamiri Sm, Nili Ahmadabadi Mahmoud, Hamed Shahmir, Fariba Naghdi, Raygan Shahram (2013)., Journal of the Mechanical Behavior of Biomedical Materials, 21(1), 32-36.  
  
**98.** Effect of Normal Load and Sliding Distance on the Wear Behavior of NiTi Alloy. Abedini M., Ghasemi Monfared Rad Hamid Reza, Nili Ahmadabadi Mahmoud (2012)., TRIBOLOGY TRANSACTIONS, 55(5), 677-684.  
  
**99.** Microstructure and mechanical behavior of martensitic steel severely deformed by the novel technique of repetitive corrugation and straightening by rolling. Arya Mirsepasi, Nili Ahmadabadi Mahmoud, Habibi Parsa Mohammad, Hadi Ghasemi Nanesa, Feyz Dizji Ahmad (2012)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 551(---), 32-39.  
  
**100.** The effect of microstructural changes induced by annealing on mechanical properties of FeCoCrMoCBY bulk glassy alloy. Amir Seifoddini, Nili Ahmadabadi Mahmoud, Saeed Heshmati Manesh, Mihai Stoica, Uta Kuehn, Jürgen Eckert (2012)., Advanced Materials Research, -(488-489), 861-865.  
  
**101.** Microstructural evaluation of austenite reversion during intercritical annealing of Fe–Ni–Mn martensitic steel. Shirazi Hasan, Hossein Nedjad Siamak, Ghasemi Nanesa Hadi, Furuhara T.f, Nili Ahmadabadi Mahmoud, Miyamoto G.t (2012)., JOURNAL OF ALLOYS AND COMPOUNDS, in press(in press), in press.  
  
**102.** MICROSTRUCTURAL STUDY OF THE MULTIPHASE BAINITIC STEEL THROUGH HEAVY COMPRESSION. Farideh Haji Akbari, Nili Ahmadabadi Mahmoud, Pish Bin Seyed Mohammad Hasan, Behrang Poorganji, Tada Furuhara (2012)., Journal of Physics: Conference Series, 5(1), 350-358.  
  
**103.** Estimation of Thickness Ratio of Bi - Layer TiNi to Enhance Shape Memory Behavior. Maryam Mohri, Nili Ahmadabadi Mahmoud (2012)., Advanced Materials Research, 428(---), 141-146.  
  
**104.** Aging behavior and mechanical properties of maraging steels in the presence of submicrocrystalline Laves phase particles. Ali Mahmoudi, M R Zamanzad Ghavidel, Seyed Hossein Nedjad, A Heidarzadeh, Nili Ahmadabadi Mahmoud (2011)., MATERIALS CHARACTERIZATION, 62(10), 976-981.  
  
**105.** . فرساد فرقانی, Nili Ahmadabadi Mahmoud (2011)., engineering, 14(43), 16-21.  
  
**106.** The effect of alloying elements on the kinetics of bainite in Sylysm carbon manganese and iron base alloys. Nili Ahmadabadi Mahmoud, بنفشه کاربخش (2011)., University, 43(6), 741-750.  
  
**107.** X-ray diffraction study on the strain anisotropy and dislocation structure of deformed lath martensite. Hossein Nedjad Siamak, Nasiri Hossein, Movagar Ali, دامادی , Nili Ahmadabadi Mahmoud (2011)., METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, 42(42), 2493-2497.  
  
**108.** role of severe plastic deformation on the formation of nanograins and nano - sized precipitates in Fe - Ni - Mn steel. Nili Ahmadabadi Mahmoud, Hasan Shirazi, Hadi Ghasemi Nanesa, Siamak Hossein Nedjad, Behrang Poorganji, Tadashi Furuhara (2011)., MATERIALS & DESIGN, 32(6), 3526-3531.  
  
**109.** grain refinement by cold deformation and recrystallization of bainite and acicular ferrite structures of C-Mn steels. Hasan Shirazi, A Mamdouh Vazirabadi, Y Zahedi Moghaddam, Siamak Hossein Nedjad, Nili Ahmadabadi Mahmoud (2011)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 528(3), 1521-1526.  
  
**110.** Deformation energy of NiTi shape memory wires. M Akhlaghi, Mahmuodi Reza, Nili Ahmadabadi Mahmoud (2011)., MATERIALS & DESIGN, 32(4), 1923–1930.  
  
**111.** Enhancement of fatigue properties of ductile irons by successive austempering heat treatment. M R Jahangiri, Nili Ahmadabadi Mahmoud, Farhangi Hasan (2011)., JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, 20(---), 1642-1647.  
  
**112.** x - ray diffraction study on the strain anisotropy aand dislocation structure of deformed lath martensite. Siamak Hossein Nedjad, F Hosseini Nasab, Mohamad Reza Movaghar Garabagh, Seyed Reza Damadi, Nili Ahmadabadi Mahmoud (2011)., METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, 42(---), 2493-2497 .  
  
**113.** . Hadi Ghasemi Nanesa, Nili Ahmadabadi Mahmoud, Hasan Shirazi, Siyamk Hossein Nedjad (2011)., Journal of Physics: Conference Series, 5(1), -.  
  
**114.** Experimental and Numerical Thermomechanical Analysis of Hybrid Friction Welding of Commercially Pure Copper Bars. Hadi Davaria, H Davari, Habibi Parsa Mohammad, Hadian Ali Mohammad, Nili Ahmadabadi Mahmoud (2011)., MATERIALS AND MANUFACTURING PROCESSES, 26(5), 694- 702.  
  
**115.** Superelastic behavior of aged and thermomechanical treated NiTi alloy at Af 10C. Hamed Shahmir, Nili Ahmadabadi Mahmoud, Fariba Naghdi (2011)., MATERIALS & DESIGN, 32(1), 365-370.  
  
**116.** The Role of Alloy Design in Semi - Solid Casting of Ductile Iron Processed by Inclined Cooling Plate. Bashir Heidarian, Nili Ahmadabadi Mahmoud, Marzyeh Moradi (2010)., Key Engineering Materials, 457(---), 287-292.  
  
**117.** Influence of Alloying Elements on the Bainitic Transformation of Ductile Iron. Banafshe Karbakhsh Ravari, Nili Ahmadabadi Mahmoud (2010)., Key Engineering Materials, 457(---), 175-180.  
  
**118.** The Effect of Partial Melting Homogenization on the Mechanical Properties of Thick Section Austempered Ductile Iron Containing 2 Mn. A Sheikholeslam, Nili Ahmadabadi Mahmoud, Rasi Zadeh Ghani Jafar (2010)., Key Engineering Materials, 457(---), 193-198.  
  
**119.** Recrystallization behavior of ECAPed A356 alloy at semi - solid reheating temperature. Marziyeh Moradi, Nili Ahmadabadi Mahmoud, Behrang Poorganji, Bashir Heidarian, Habibi Parsa Mohammad, Tadashi Furuhara (2010)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 527(16-17), 4113-4121.  
  
**120.** mechanical properties evaluations of an age hardenable martensitic steel deformed by equal channel angular pressing. Tadashi Furuhara, Siamak Hossein Nedjad, Behrang Poorganji, Mohsen Iranpour Mobarake, Hasan Shirazi, Nili Ahmadabadi Mahmoud (2010)., JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, 10(9), 6182-6185.  
  
**121.** Ductility enhancement in ultrafine - grained FeNiMn martensitic steel by stress - induced reverse transformation. Ghasemi Nansa Hadi, Nili Ahmadabadi Mahmoud, حسن شیرازی, سیامک حسین نژاد, Pish Bin Seyed Mohammad Hasan (2010)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 527(30,29), 7552-7556.  
  
**122.** microstructural evolotion of bainitic steel severely deformed by equal channel angular pressing. Nili Ahmadabadi Mahmoud, Faride Sadat Haji Akbari, Fatemeh Rad, Zahra Karimi, Mohsen Iranpour, Tadashi Furuhara (2010)., JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, 10(9), 5986-5993.  
  
**123.** Tribological behavior of NiTi alloy against 52100 steel and WC at elevated temperatures. Abedini M., Ghasemi Monfared Rad Hamid Reza, Nili Ahmadabadi Mahmoud (2010)., MATERIALS CHARACTERIZATION, 61(7), 689-695.  
  
**124.** Mechanical properties of Fe - 10Ni - 7Mn martensitic steel subjected to severe plasticdeformation via cold rolling and wire drawing. Hasan Shirazi, Nili Ahmadabadi Mahmoud, Hadi Ghasemi Nanesa (2010)., Journal of Physics: Conference Series, 240(1), 1-4.  
  
**125.** Microstructure evolution through heavy compression aided by thermodynamic calculation. Nili Ahmadabadi Mahmoud, Behrang Poorganji, Tadashi Furuhara, Kazem Jeddi, Farideh Hajiakbari, Behrang Poorganji, Tadashi Furuhara (2010)., JOURNAL OF MATERIALS SCIENCE, 45(17), 4689-4695.  
  
**126.** Control of austenite to martensite transformation through equal channel angular pressing aided by thermodynamic calculations. Nili Ahmadabadi Mahmoud, Behrang Poor Gangi, T Forohara, Farideh Sadat Haji Akbari (2009)., ACTA MATERIALIA, 58(58), -.  
  
**127.** . مرتضی عابدینی اکارزواره, Ghasemi Monfared Rad Hamid Reza, Nili Ahmadabadi Mahmoud (2009)., Journal of Financial and Management Engineering Exchange, -(---), -.  
  
**128.** Evaluation of the Role of Alloying Elements in Austemperability of Heavy Section Ductile Iron. Nili Ahmadabadi Mahmoud, Heydarzadeh Sohi Mahmoud, Bahrami Vahdat, A Amirsadeghi (2009)., Advanced Materials Research, 86-83(---), 481-487.  
  
**129.** Effect of Severe Plastic Deformation on Mechanical Properties of Fe - Ni - Mn High Strength Steel. Nili Ahmadabadi Mahmoud, Siamak Hossein Nedjad, Hasan Shirazi, Aria Fatehi (2009)., Advanced Materials Research, 86-83(---), 23-16.  
  
**130.** IMPROVEMENT OF MECHANICAL PROPERTIES OF AL ( A356 ) CAST ALLOY PROCESSED BY ECAP WITH DIFFERENT HEAT TREATMENTS. Bashir Heidarian, Nili Ahmadabadi Mahmoud, Marziye Moradi (2009)., International Journal of Material Forming, -(---), -.  
  
**131.** Static and cyclic load - deflection characteristics of NiTi orthodontic archwires using modified bending tests. Nili Ahmadabadi Mahmoud, Tahereh Shahhoseini, Habibi Parsa Mohammad, Maryam Haj Fathalian, Tahereh Hoseinzadeh Nik, Hananeh Ghadirian (2009)., JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, 18(5-6), 793-796.  
  
**132.** . شهیدی نازلی, Nili Ahmadabadi Mahmoud, پویشمن یسرا (2009)., University, 43(2), 185-195.  
  
**133.** The Mechanical and Thermal Behaviors of Heat-Treated Ni-Rich NiTi Orthodontic Archwires. Seyyed Aghamir seyyed mohammad, Nili Ahmadabadi Mahmoud, Raygan Shahram, Haririan Esmaeil, ahmad Akhondi M.S. (2009)., JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, 18(5-6), 843-847.  
  
**134.** The mechanical and thermal behaviors of heat - treated Ni - Rich NiTi orthodontic archwires. Seyed Mohammad Seyyed Aghamiri, Nili Ahmadabadi Mahmoud, Shahram Raygan, Esmaeil Haririan, Ahmad Akhondi (2009)., JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, 18(5-6), 843-847.  
  
**135.** Formation Of Nano Layered Lamellar Structure In a Processed y-TiAl Based Alloy. Heshmati Manesh Saeid, Hesam Shakoorian, Hasan Ghassemi Armaki, Nili Ahmadabadi Mahmoud (2009)., NANO, 1136(1), 641-637.  
  
**136.** Flow-forming and flow formability simulation. Habibi Parsa Mohammad, Amir Masoud Pazooki, Nili Ahmadabadi Mahmoud (2009)., INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, 42(5-6), 463-473.  
  
**137.** Annealing behavior of an ultrafine - grained FeNiMn steel during isothermal aging. Nili Ahmadabadi Mahmoud, سیامک حسین نژاد, T Furuhara (2009)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 503(---), 156-159.  
  
**138.** . فریبا نقدی, حامد شاه میر, Nili Ahmadabadi Mahmoud, یحیی متمنی شربیانی (2009)., metallurgy and materials engineering, 30(30), -.  
  
**139.** A new concept in further alloying of Fe–Ni–Mn maraging steels. سیامک حسین نژاد, Siamak Hossein Nedjad, J Teimouri, J Teimouri, حسن شیرازی, A Tahmasebifar, Hassan Shirazib, Nili Ahmadabadi Mahmoud (2009)., SCRIPTA MATERIALIA, 60(---), 528-531.  
  
**140.** Effect of cooling rate on the phase transformation behavior and mechanical properties of Ni - rich NiTi shape memory alloy. Yahya Motemani, Nili Ahmadabadi Mahmoud, M J Tan, Mandana Bornapour, Raygan Shahram (2009)., JOURNAL OF ALLOYS AND COMPOUNDS, 469(1), 164-168.  
  
**141.** Effect of aging on the microstructure and tensile properties of FeNiMnCr maraging alloys. سیامک حسین نژاد, S میمندی, A محمودی, T عابدی, S یزدانی, حسن شیرازی, Nili Ahmadabadi Mahmoud (2009)., Materials Science and Engineering: R: Reports, 501(---), 182-187.  
  
**142.** Tribological behavior of NiTi alloy in martensitic and austenitic states. Abedini M., Ghasemi Monfared Rad Hamid Reza, Nili Ahmadabadi Mahmoud (2009)., MATERIALS & DESIGN, 30(10), 4493-4497.  
  
**143.** ECAP Processing of High Si Bainitic Steel, Microstructure and Mechanical Properties. Nili Ahmadabadi Mahmoud, Farideh Sadat Haji Akbari, Fatemeh Rad, Mohsen Iranpour, Meysam Shahirnia, Behrang Poorganji, Tadashi Furuhara (2009)., Advanced Materials Research, 86-83(83), 358-366.  
  
**144.** X - ray diffraction study on a nanostructured 18Ni maraging steel prepared by equal - channel angular pressing. Mohamad Reza Movaghar Garabagh, Siamak Hossein Nedjad, Nili Ahmadabadi Mahmoud (2008)., JOURNAL OF MATERIALS SCIENCE, 43(21), 6840-6847.  
  
**145.** Semi - solid microstructure evolution during reheating of aluminum A356 alloy deformed severely by ECAP. Saleh Ashouri, Nili Ahmadabadi Mahmoud, Marziye Moradi, M Iranpour (2008)., JOURNAL OF ALLOYS AND COMPOUNDS, 466(---), 72-67.  
  
**146.** IMPROVEMENT IN MECHANICAL PROPERTIES OF Fe - Ni - Mn MARAGING STEEL BY HEAVY COLD ROLLING. Nili Ahmadabadi Mahmoud, Hasan Shirazi, A Fatehi, Siamak Hossein Nedjad (2008)., INTERNATIONAL JOURNAL OF MODERN PHYSICS B, 22(18-19), 2814-2822.  
  
**147.** Modeling of inclined cooling plate semisolid processing by model alloy. Hossein Mehrara, Nili Ahmadabadi Mahmoud, Bashir Heidarian, S Ashouri, Jamshid Ghiasinejad (2008)., Diffusion and Defect Data Pt.B: Solid State Phenomena, 141-143(141), 785-790.  
  
**148.** . مریم حاج فتحعلیان, Nili Ahmadabadi Mahmoud, طاهره حسین زاده نیک, طاهره شاه حسینی, حنانه قدیریان, Habibi Parsa Mohammad (2008)., University, 42(115), -.  
  
**149.** The Effect of Chemical Composition on Microstructure and Transformation Behavior of NiTi Shape Memory Alloy Prepared by Vacuum Arc Melting. Mandana Bornapour, Yahya Motemanni, Nili Ahmadabadi Mahmoud, Raygan Shahram (2008)., Journal of Biomimetics, Biomaterials, and Tissue Engineering, 1(1), 97-91.  
  
**150.** A Novel Process for Fabrication of Globular Structure by Equal Channel Angular Pressing and Isothermal Treatment of Semisolid Metal. H Meidani, S Hossein Nedjad, Nili Ahmadabadi Mahmoud (2008)., Diffusion and Defect Data Pt.B: Solid State Phenomena, 141-143(---), 445-450.  
  
**151.** Study of ECAP Processing Routes on Semi - solid Microstructure Evolution of A356 Alloy. M Moradi, Nili Ahmadabadi Mahmoud, B Heidarian, M Habibi Parsa (2008)., Diffusion and Defect Data Pt.B: Solid State Phenomena, 141-143(141), 397-402.  
  
**152.** The extent and mechanism of nanostructure formation during cold rolling and aging of lath martensite in alloy steel. Siyamak Hossein Nedjad, Nili Ahmadabadi Mahmoud, Tadashi Furuhara (2008)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 458(1,2), 544-549.  
  
**153.** Evaluation of microstructure change and hot workability of high Nickel high strength steel using wedge test. Habibi Parsa Mohammad, Nili Ahmadabadi Mahmoud, Hassan Shirazi, Behrang Poorganjib, Payam Pournia (2008)., JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, 199(1,3), 304-313.  
  
**154.** Effect of Slope Plate Variable and Reheating on the Semi - Solid Structure of Ductile Cast Iron. Nili Ahmadabadi Mahmoud (2008)., Tsinghua Science and Technology, 13(2), 147-151.  
  
**155.** . حسن قاسمی ارمکی, Heshmati Manesh Saeid, حمیدرضا جعفریان, Nili Ahmadabadi Mahmoud (2008)., University, 41(8), 1073-1080.  
  
**156.** . متقی آرمان, کریمان مهدی, Raygan Shahram, Habibi Parsa Mohammad, Nili Ahmadabadi Mahmoud, متقی آرمان, کریمان مهدی (2008)., University, 41(8), 1095-1102.  
  
**157.** Effect of equal channel angular pressing on the microstructure of a semisolid aluminum alloy. Nili Ahmadabadi Mahmoud, Hossein Meidani, Siamak Hossein Nedjad (2008)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 475(1,2), 224-228.  
  
**158.** Investigation of thin wall casting made of semi - solid A356 using back extrusion and die cast. Saleh Ashouri, Bashir Heidarian, Nili Ahmadabadi Mahmoud, Marzieh Moradi (2008)., Diffusion and Defect Data Pt.B: Solid State Phenomena, 143-141(---), 67-72.  
  
**159.** H X - ray diffraction peak profile analysis aiming at better understanding of the deformation process and deformed structure of a martensitic steel. Mr Movaghar Garabagh, Siamak Hosseinnedjad, Hassan Shirazi, Hossein Iranpourmobarekeh, Nili Ahmadabadi Mahmoud, Hasan Shirazi, Hosein Iranpour Mobarake, Mohamad Reza Movaghar Garabagh (2008)., Thin Solid Films, 516(22), 8117-8124.  
  
**160.** The Evolution of Strain during Equal Channel Angular Pressing. Habibi Parsa Mohammad, Mehdi Naderi, Nili Ahmadabadi Mahmoud, Hadi Asadpour (2008)., International Journal of Material Forming, 1(1), 93-96.  
  
**161.** Effect of further alloying on the microstructure and mechanical properties of an Fe–10Ni–5Mn maraging steel. Hasan Shirazi, Nili Ahmadabadi Mahmoud, Mohammad Reza Movaghar Garabagh, Siamak Hossein Nedjad (2008)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 473(1,2), 249-253.  
  
**162.** Finite Element Analysis of Hybrid Rotary Friction Welding and investigating the Effects of Pressures on Variations of Temperature and Strain Values. Nili Ahmadabadi Mahmoud, A M Hadian, H Davari, Habibi Parsa Mohammad (2008)., Materials Science Forum, 580-582(---), 287-290.  
  
**163.** Microstructural study of an age hardenable martensitic steel deformed by equal channel angular pressing. Mohesn Iranpour Mobarake, Nili Ahmadabadi Mahmoud, Behrang Poorganji, Ariya Fatehi, Hasan Shirazi, Tadashi Furuhara, Habibi Parsa Mohammad, Siamak Hossein Nedjadc (2008)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 491(1,2), 172-176.  
  
**164.** CORRELATION BETWEEN THE INTERGRANULAR BRITTLENESS AND PRECIPITATION REACTIONS DURING ISOTHERMAL AGING OF AN FE-NI-MN MARAGING STEEL. Siamak Hossein Nedjad, Nili Ahmadabadi Mahmoud, Tadashi Furuhara (2008)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 490(1-2), 105-112.  
  
**165.** Transmission Electron Microscopy Study on the Grain Boundary Precipitation of an Fe - Ni - Mn Maraging Steel. Siamak Hossein Nedjad, Nili Ahmadabadi Mahmoud, Tadashifuruhara (2007)., METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, 39(1), 19-27.  
  
**166.** Use of modeling to optimise homogenization of high Mn heavy section ductile iron castings using partial melting. Nili Ahmadabadi Mahmoud, شهاب الدین فقاهتی (2007)., INTERNATIONAL JOURNAL OF CAST METALS RESEARCH, 20(2), 53-57.  
  
**167.** Overview of phase transformation in intermetallic alloys based on gamma-TiAl. حسن قاسمی ارمکی, Heshmati Manesh Saeid, حمیدرضا جعفریان, Nili Ahmadabadi Mahmoud (2007)., engineering, 2(25), 59-50.  
  
**168.** effect of slope plate variables and reheating on the semi - solid structure of Al alloys. S Ashouri, Nili Ahmadabadi Mahmoud (2006)., Diffusion and Defect Data Pt.B: Solid State Phenomena, -(116-117), 201-204.  
  
**169.** Kinetics of coarsening and solid sphericity during reheating of ductile iron and Al alloys. P Babaghorbani, S Salarfar, Nili Ahmadabadi Mahmoud (2006)., Diffusion and Defect Data Pt.B: Solid State Phenomena, -(116-117), 205-208.  
  
**170.** Evolution of precipitate coarsening reaction in a nanostructured FeNiMn maraging alloy. S Hossein Nedjad, Nili Ahmadabadi Mahmoud, Tadashi Furuhara, Tadashi Maki (2006)., Diffusion and Defect Data Pt.B: Solid State Phenomena, -(114), 159-164.  
  
**171.** Effect of initial microstructure and further thermomechanical processing on microstructural evolution in a Ti - 47Al - 2Cr alloy. Hamid Reza Jafarian, Hasan Ghasemiarmaki, Nili Ahmadabadi Mahmoud, Heshmati Manesh Saeid (2006)., JOURNAL OF ALLOYS AND COMPOUNDS, 436(1,2), 200-203.  
  
**172.** . علیرضا شیخ عبدالحسین, Nili Ahmadabadi Mahmoud (2006)., University, -(39و6), 821-829.  
  
**173.** . حمید رضا کیایی, Farhangi Hasan, Nili Ahmadabadi Mahmoud, حمید رضا کیایی (2006)., engineering, -(8,23), 37-42.  
  
**174.** High resolution transmission electron microscopy study on the nano - scale twinning of theta - NiMn precipitates in an Fe - Ni - Mn maraging alloy. Sh Nedjad, Nili Ahmadabadi Mahmoud, T Furuhara, T Maki (2006)., PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE, 203(9), 2229-2235.  
  
**175.** . سیدمحمد باقر خواجه باشی, Akhlaghi Farshad, Nili Ahmadabadi Mahmoud (2005)., engineering, 8(22), 2-6.  
  
**176.** Comparison of hot working behavior and microstructure change of maraging steel grad 300 without Coblat and grad 350 with Cobalt using wedge test. بهرنگ پورگنجی, Habibi Parsa Mohammad, پیام پورنیا, Nili Ahmadabadi Mahmoud (2005)., Journal of Financial and Management Engineering Exchange, 8(21), -.  
  
**177.** . پیام پورنیا, Habibi Parsa Mohammad, بهرنگ پورگنجی, Nili Ahmadabadi Mahmoud (2005)., engineering, 8(21), -.  
  
**178.** The effect of production parameters on microstructure of A356 alloy cast in a semi-solid - liquid half. Nili Ahmadabadi Mahmoud, خواجه باشی (2005)., Casting, -(80), -.  
  
**179.** Effect of production parameters on microstructure of A356 alloy cast in a semi-solid - liquid half. سید محمد باقر خواجه باشی, Akhlaghi Farshad, Nili Ahmadabadi Mahmoud (2005)., Casting, -(3), 44-50.  
  
**180.** Influence of SiC and FeSi addition on the characteristics of gray cast iron melts poured at different temperatures. K Edalati, F Akhlaghi, Nili Ahmadabadi Mahmoud (2005)., JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, 160(2), 183-187.  
  
**181.** Fading investigation in ductile cast iron aided by cooling curve analysis. Sheykh Abdolhossein, Nili Ahmadabadi Mahmoud (2005)., INTERNATIONAL JOURNAL OF CAST METALS RESEARCH, 5(18), 295-299.  
  
**182.** The Role of Austempering Parameters on the Structure and Mechanical Properties of Heavy Section ADI. Mahmoud Heydarzadeh Sohi, Nili Ahmadabadi Mahmoud, Bahrami Vahdat (2004)., JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, 153-154(---), 203-208.  
  
**183.** Effects of casting process variables on the residual stress in Ni - base superalloys. Farhangi Hasan, S Norouzi, Nili Ahmadabadi Mahmoud (2004)., JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, 153-154(---), 209-212.  
  
**184.** Effect of conventional and subzero treating on the mechanical properties of aged martensitic Fe - 12 wt% Ni - X wt % Mn alloys. S Hossein Nedjad, Nili Ahmadabadi Mahmoud, R Mahmoudi, Farhangi Hasan (2004)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 378(1,2), 314-318.  
  
**185.** THE EFFECT OF HOLDING TIME ON TEMPERATURE EUTECTIC UNDERCOOLING IN DUCTLIE IRON. Sheikh Abdolhossein, Nili Ahmadabadi Mahmoud (2004)., Iranian Journal of Materials Science and Engineering, 1(3), -.  
  
**186.** Effect of modified heat treatments on the microstructure and mechanical properties of a low alloy high strength steel. Ar Mirak, Nili Ahmadabadi Mahmoud (2004)., MATERIALS SCIENCE AND TECHNOLOGY, 20(7), 897-902.  
  
**187.** . علیرضا شیخ عبدالحسین, Nili Ahmadabadi Mahmoud (2004)., Casting, 25(77), 22-43.  
  
**188.** Homogenization of ductile iron using partial melting aided by modeling. Nili Ahmadabadi Mahmoud, Mosallaiee Pour (2004)., MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 373(1-2), 309-314.  
  
**189.** . فرشید پهلوانی, سحر سالارفر, Nili Ahmadabadi Mahmoud (2004)., Casting, 25(76), -.  
  
**190.** Development of Semi-solis ductile cast iron. Pahlevani Farshid, Nili Ahmadabadi Mahmoud (2004)., INTERNATIONAL JOURNAL OF CAST METALS RESEARCH, 17(3), 157-161.  
  
**191.** Influence of inoculant and / or SiC addition in characteristics of grey cast iron. K Edalati, Farshid Akhlaghi, Nili Ahmadabadi Mahmoud (2004)., INTERNATIONAL JOURNAL OF CAST METALS RESEARCH, 17(3), 147-151.

***Books***

**1.** Rolling of Advanced High Strength Steels Theory, Simulation and Practice. Nili Ahmadabadi Mahmoud, Koohdar Hamidreza, Habibi Parsa Mohammad (2017).  
  
**2.** Austempered Ductile Cast Iron: Bainitic Transformation in. Nili Ahmadabadi Mahmoud, Shirazi Hasan (2016).  
  
**3.** مبانی زیست مواد. Sar Bouloki Mohammad Nabi, Badiei Ali Reza, Farhangi Hasan, Nili Ahmadabadi Mahmoud, Habibi Parsa Mohammad, Dehghanian Changiz, Firouzi Sheshtamed Masoumeh, Kabodanian Ardestani Sosan, طاهره شاه حسینی, یگانه خانیانی, فرهاد شفیعی, طاهره جعفرزاده, سیما شهابی, تبسم هوشمند (2007).

***Conferences***

**1.** Friction stir processing of Nitinol (NiTi) alloy. Toghani Taheri Fatemeh, Khodabakhshi Farzad, Malekan Mehdi, Nili Ahmadabadi Mahmoud (2023)., The 9th International Biennial Conference on Ultrafine Grained and Nanostructured Materials (UFGNSM2023), 14-15 November, Tehran, Iran.  
  
**2.** Increase Strength and ductility in high entropy alloy Fe49.5Mn30Co10Cr10C0.5 engineered by friction stir processing. Afroogh Mohammad, Khodabakhshi Farzad, Malekan Mehdi, Nili Ahmadabadi Mahmoud (2023)., The 9th International Biennial Conference on Ultrafine Grained and Nanostructured Materials (UFGNSM2023), 14-15 November, Tehran, Iran.  
  
**3.** An Overview for Superplastic behavior and Microstructural Development during Friction Stir Processing. افروغ محمد, Khodabakhshi Farzad, Malekan Mehdi, Nili Ahmadabadi Mahmoud (2022)., The 11th International Conference on Materials and Metallurgical Engineering, 13-14 December, Tehran, Iran.  
  
**4.** Effect of high-pressure torsion on the microstructural evolution and mechanical properties of an Fe-10Ni-7Mn (wt. %) lath martensitic steel. Koohdar Hamidreza, Jafarian Hamidreza, Javadzadeh Kalahroudi Faezeh, Nili Ahmadabadi Mahmoud, Langdon T.g, Huang Yi (2017)., 6th International Biennial Conference on Ultrafne Grained and Nanostructured Materials, 12-13 November, Kish, Iran.  
  
**5.** Fine grained 304 ASS processed by a severe plastic deformation and subsequent annealing; microstructure and mechanical properties evaluation. Ahmadzadeh Shima, Shirazi Hassan, Nili Ahmadabadi Mahmoud (2017)., 6TH INTERNATIONAL BIENNIAL CONFERENCE ON ULTRAFINE GRAINED AND NANOSTRUCTURED MATERIALS: (UFGNSM2017), 12-13 November, Kish.  
  
**6.** Calorimetric study of non-isothermal crystallization kinetics of ???? ???? ???? ????.?? ???? ??.?? ???? ???? Bulk Metallic Glass. Rahimi Chegeni Maryam, Nili Ahmadabadi Mahmoud, Malekan Mehdi (2017)., 6th International Conference on Materials Engineering and Metallurgy, 28-29 October, Tehran, Iran.  
  
**7.** The Effect of "Repetitive Corrugation and Straightening by Rolling" (RCSR) Process on the Semi-solid Microstructure of A356 Aluminum Alloy. Asghari-rad Peyman, Nili Ahmadabadi Mahmoud, Shirazi Hassan (2016)., Proceedings of Iran International Aluminum Conference (IIAC2016), 11-12 May, Tehran, Iran.  
  
**8.** Microstructure evolution of an Austenitic Stainless Steel severely deformed by the repetitive corrugation and straightening by rolling and subsequent annealing. Asghari-rad Peyman, Shirazi Hassan, Koldorf Sebastian, Nili Ahmadabadi Mahmoud (2015)., 5th International Biennial Conference on Ultrafine Grained and Nanostructured Materials, UFGNSM15, 11-12 November, Tehran, Iran.  
  
**9.** Investigating on the reverse transformation of martensite to austenite and Pseudoelastic behavior in Ultrafine-Grained Fe-10Ni-7Mn (wt %) Steel processed by heavy cold rolling. Koohdar Hamidreza, Nili Ahmadabadi Mahmoud, Habibi Parsa Mohammad, Ghasemi Nansa Hadi (2013)., The 4rd International Conference on Ultrafine grained and Nanostructured Materials(UFGNSM13), 5-6 November, Tehran, Iran.  
  
**10.** microstructural 403 stainless steel changes through the ECAP process at room temperature. Toofaninejad Mohsen, Nili Ahmadabadi Mahmoud (2013)., Second International Conference of the Seventh Joint Conference on Metallurgical Engineering Society Foundry, 30-31 October, Tehran, Iran.  
  
**11.** Effect of yttrium on the primary austenite grain growth. Nili Ahmadabadi Mahmoud, Forghani Farsad, Montakhab Elham (2012)., IMES, 6-8 November, Tehran, Iran.  
  
**12.** Improved vitrification and mechanical properties of Fe 1.5 Ni alloy. Seifoddini Amir, Nili Ahmadabadi Mahmoud, Heshmati Manesh Saeid (2012)., IMES, 6-8 November, Tehran, Iran.  
  
**13.** changes microstructural NiTi memory alloy through ECap process at room temperature. Mansouri Arani Mojtaba, Nili Ahmadabadi Mahmoud, Shahmir Hamed, Terry Langdon (2012)., IMES, 6-8 November, Tehran, Iran.  
  
**14.** Comparative abrasion of. Shafie Ahad, Nili Ahmadabadi Mahmoud, Ghasemi Monfared Rad Hamid Reza, Eslami Asadolah, Hosien Mirzaie Ehsan (2012)., IMES , 6-8 November, Tehran, Iran.  
  
**15.** Effect of thermal annealing on the mechanical behavior of an iron-based bulk metallic glass. Habibi Nilofar, Nili Ahmadabadi Mahmoud, Seifoddini Amir (2012)., imes, 6-8 November, Tehran, Iran.  
  
**16.** On the filling of semi-solid during thixocasting. Seyed Vakili Seyed Vahid, Nili Ahmadabadi Mahmoud (2012)., 12th International Conference on Semi-Solid Processing of Alloys and Composites, 8-11 October, South Africa.  
  
**17.** Evaluation of mechanical properties of Ni-Ti Bi-layer thin films. Nili Ahmadabadi Mahmoud, مهری مریم (2012)., TMS 2012, 7-11 March, Orlando, United States Of America.  
  
**18.** Recycling of reverted IN738LC with reference to mechanical properties and control of chemical composition. Nili Ahmadabadi Mahmoud, Rahimi Reza (2012)., TMS 2012, 6-11 March, Orlando, United States Of America.  
  
**19.** Observation of pseudoelastic behavior in ultrfined grained Fe-10Ni-7Mn steel due to revrse martensitic transformation. Nili Ahmadabadi Mahmoud, کوهدار حمیدرضا, Habibi Parsa Mohammad, قاسمی نانسا هادی (2011)., UFGNSM2011, 2-3 November, Tehran, Iran.  
  
**20.** OBSERVATION OF PSEUDOELASTIC BEHAVIOR IN ULTRAFINE-GRAINED FE-10NI-7MN (WT STEEL DUE TO REVERSE MARTENSITE TRANSFORMATION. کوه دار حمیدرضا, Nili Ahmadabadi Mahmoud, Habibi Parsa Mohammad, قاسمی نسا حسن (2011)., 3rd International Conference on Ultrafine Grained and Nanostructured Materials, 2-3 November, Tehran, Iran.  
  
**21.** Repetative corrugation straightening and rolling as a state of the art bulk deformation procedure. Nili Ahmadabadi Mahmoud, میر سپاسی آریا, Habibi Parsa Mohammad, قاسمی نانسا هادی (2011)., UFGNSM2011, 2-3 November, Tehran, Iran.  
  
**22.** Flow behavior of Al MAtrix composite reinforced by iron based (20 Cr 30 wires during equal chanel angular pressing. Nili Ahmadabadi Mahmoud, میراب سعیده, مرادی مرضیه, نادری محمد (2011)., UFGNMS 2011, 2-3 November, Tehran, Iran.  
  
**23.** Study on martensite transformation back to austenite Fe-10Ni-7Mn using Dilatometer and DSC. Karimi Abolfazl, کریمی سینا, حسین نزاد سیامک, Shirazi Hasan, Nili Ahmadabadi Mahmoud (2011)., imes 5th, 25-26 October, Isfahan, Iran.  
  
**24.** SURVEY the thermodynamic properties of the two-way memory Ni-50.8 at Ti. Nili Ahmadabadi Mahmoud, داعی فاطمه (2010)., IMES 4th, 15-16 November, Tehran, Iran.  
  
**25.** Yttrium-bearing sediments formed in order to control the grain growth in steels Martnryty nickel - manganese. فرقانی فرساد, Nili Ahmadabadi Mahmoud, منتخب الهام (2010)., IMES 4th, 15-16 November, Tehran, Iran.  
  
**26.** Experimental Modelling of Compressive Concrete Elements Strengthened With Shape Memory Alloys. Mirzaee Zanyar, Shekarchi Zadeh Mohammad, Motevali Masoud, Nili Ahmadabadi Mahmoud (2009)., the 1st International Conference on Concrete Technology, 8-9 December, Tabriz, Iran.  
  
**27.** investigating the transformation behavior of aged NiTi orthodontic wire. Seyyed Aghamir seyyed mohammad, Nili Ahmadabadi Mahmoud, Raygan Shahram (2009)., 3th joint conference of metallurgical engineering society and casting scientific society, 17-18 November, Kerman, Iran.

**HONORS and AWARDS**

**ACADEMIC POSITIONS**

**COURSES OFFERED**

**Phase Transformations in Metals and Alloys  
  
Solidification and Casting Principles  
  
Diffusion in Solids  
  
Phase Transformations in Metals and Alloys  
  
Phase Transformations  
  
Phase Transformations in Metals and Alloys  
  
Phase Transformations  
  
Solidification and Casting Principles  
  
Phase Transformations in Metals and Alloys  
  
Phase Transformations  
  
Phase Transformations  
  
Solidification and Casting Principles  
  
Phase Transformations  
  
Phase Transformations  
  
Phase Transformations  
  
Phase Transformations  
  
Phase Transformations  
  
General Training  
  
Phase Transformations  
  
Phase Transformations  
  
General Training  
  
Phase Transformations  
  
Phase Transformations  
  
Phase Transformations  
  
Phase Transformations  
  
General Training  
  
Phase Transformations  
  
Phase Transformations  
  
General Training  
  
Phase Transformations  
  
Phase Transformations  
  
Solidification and Casting Principles  
  
General Training  
  
Phase Transformations  
  
Phase Transformations  
  
General Training  
  
Phase Transformation and Interfaces  
  
Phase Transformations  
  
Phase Transformations  
  
Solidification and Casting Principles  
  
General Training  
  
Phase Transformation and Interfaces  
  
Phase Transformations  
  
Phase Transformations  
  
Solidification and Casting Principles  
  
General Training  
  
Phase Transformation and Interfaces  
  
Phase Transformations  
  
Solidification and Casting Principles  
  
Phase Transformation and Interfaces  
  
Phase Transformations  
  
Solidification and Casting Principles  
  
General Training  
  
Bsc Project 1  
  
Phase Transformations  
  
Phase Transformations**

**LABORATORIES**