

# Curriculum Vitae



## Personal Information:

**Name:** Hamidreza Farnoush  
**Birth:** 16/09/1983  
**Nationality:** Iranian  
**Marital Status:** Married  
**Academic Position:** Assistant Professor  
**Work Address:** Department of Metallurgy and Materials Engineering, Faculty of Engineering, University of Kashan, Qotb Ravandi Blvd., P.O. Box: 87317-51167 Kashan, Iran.  
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## Objectives and Major Interests:

Mechanical Behavior of Materials, Coatings & Surface Modifications, Synthesis of Nanomaterials, Solid Oxide Fuel Cells, Biomaterials, Powder Metallurgy, Corrosion Behavior, Tribology

## Education:

2001-2005 **BSc** in Materials Science and Engineering, Department of Mining and Metallurgical Engineering, **Amirkabir University of Technology**, Tehran, Iran  
2005-2008 **MSc** in Materials Science and Engineering, Department of Materials Science and Engineering, **Sharif University of Technology**, Tehran, Iran  
2008-2013 **PhD** in Materials Science and Engineering, Department of Mining and Metallurgical Engineering, **Amirkabir University of Technology**, Tehran, Iran

## Honors:

2008-2013 **Top 1<sup>st</sup> ranked PhD student** in Materials Science and Engineering, Amirkabir University of Technology  
2001-2005 **Top 1<sup>st</sup> ranked undergraduate student** in Materials Science and Engineering, Amirkabir University of Technology  
2017, 2021 **Teaching Excellence Award**, University of Kashan, Faculty of Engineering

## **Teaching Experiences:**

- 2014-present      **Diffusion in Solids**, Department of Metallurgy and Materials Engineering, *University of Kashan*
- 2014-present      **Advanced Powder Metallurgy**, Department of Metallurgy and Materials Engineering, *University of Kashan*
- 2014-present      **Advanced Kinetics of Materials**, Department of Metallurgy and Materials Engineering, *University of Kashan*
- 2013-present      **Advanced Methods in Materials Characterization Lab.**, Department of Metallurgy and Materials Engineering, *University of Kashan*
- 2015-present      **Mechanical Behavior of Materials**, Department of Metallurgy and Materials Engineering, *University of Kashan*
- 2016-present      **Heat Treatment**, Department of Metallurgy and Materials Engineering, *University of Kashan*
- 2017-present      **Heat Treatments Lab.**, Department of Metallurgy and Materials Engineering, *University of Kashan*
- 2016-present      **Powder Metallurgy**, Department of Metallurgy and Materials Engineering, *University of Kashan*
- 2017-present      **Non-ferrous Extractive Metallurgy**, Department of Metallurgy and Materials Engineering, *University of Kashan*
- 2016-present      **Mechanical Behavior of Materials Lab.**, Department of Metallurgy and Materials Engineering, *University of Kashan*
- 2015-present      **Statics and Mechanics of Materials**, Department of Chemical Engineering and Industrial Engineering Department, *University of Kashan*
- 2014-present      **Statics**, Department of Mining Engineering and Department of Metallurgy and Materials Engineering, *University of Kashan*
- 2008- 2013      **Mechanical Behavior of Materials Lab.**, Department of Mining and Metallurgical Engineering, *Amirkabir University of Technology*
- 2008- 2013      Teaching Assistant of **Mechanical Properties of Materials I**, Department of Mining and Metallurgical Engineering, *Amirkabir University of Technology*

- 2008-present      **Materials Science**, Mechanical Engineering Department, *IAU (Central Tehran Branch)* and Industrial Engineering Department, *University of Kashan*
- 2008-present      **Engineering Graphics I & II**, Mechanical Engineering Department, *IAU (Central Tehran Branch)*
- 2005-2007         **Fabrication of Casting Models**, *Sharif University of Technology*

**Research Experiences:**

- 2016-present      *Fabrication and High-temperature Performance of Solid Oxide Fuel Cell with Doped-Nanostructured Mn-Co Spinel Oxide Protective Coatings on Metallic Interconnects*, Niroo Research Institute
- 2016-2018         *Fabrication of Graded Electrophoretic Deposition Apparatus*, University of Kashan
- 2013-2018         *Designing and Manufacturing of SOFC Power Unit by Using Natural Gas*, Niroo Research Institute
- 2011-2013         PhD Thesis: “*Graded and Layered Electrophoretic Deposition of HA/TiO<sub>2</sub> Nanoparticles on Ti6Al4V Substrates with Refined Microstructure*”, Department of Mining and Metallurgical Engineering, Amirkabir University of Technology
- 2012-2013         *Surface Modification of CP-Ti Substrate by Combining Micro-arc Oxidation and Electrophoretic Deposition*, Istanbul Technical University
- 2011-2013         *Fabrication of Ti–CaP Nanocomposite Layer by Friction Stir Processing*, Amirkabir University of Technology
- 2012-2013         *Biomimetic Synthesis of Nano-hydroxyapatite Coatings on Friction Stir Processed Ti-6Al-4V Substrates*, Amirkabir University of Technology
- 2012-2013         *Sol-gel Derived Nano-hydroxyapatite Film on Friction Stir Processed Ti-6Al-4V Substrate*, Amirkabir University of Technology
- 2008-2010         *Fabrication of Nanostructured Al-AlN Composite by Mechanical Alloying*, Materials & Energy Research Center (MERC)
- 2009-2010         *Thermokinetic Study on Oxidation Behavior of AlN Nanoparticles*, Materials & Energy Research Center (MERC)

- 2005-2008 MSc Thesis: “*The Effect of Dynamic Strain Aging on Fatigue Properties of Ferrite-Bainite Dual-Phase Steels*”, Department of Materials Science and Engineering, Sharif University of Technology
- 2004-2005 BSc Thesis: “*Hot Deformation Characteristics of 2205 Duplex Stainless Steel Based on the Behavior of Constituent Phases*”, Department of Mining and Metallurgical Engineering, Amirkabir University of Technology

**Publications in JCR-indexed journals:**

1. A. Sadeghi, H. Farnoush, J. Safaei-Ghomi, H.S. Oboudatian , Bimetallic Fe/K  $\gamma$ -cyclodextrin metal–organic frameworks with enhanced loading capacity and tunable release behavior, *Scientific Reports* (2026).<https://doi.org/10.1038/s41598-026-50037-9>.
2. H. Abdoli, M.F. Hasanabadi, H. Farnoush, Interfacial engineering of glass-ceramic/steel joints using ceramic interlayers: designing thermoelastic stress and chemical stability, *Materials Letters* 410, (2026) 140252.
3. P. Mofazali, H. Farnoush, Fabrication and characterization of Sr-modified Bredigite/chitosan nanocomposite coatings on AZ31 alloy via electrophoretic deposition for bone applications, *Journal of Sol-Gel Science and Technology* 114 (2), (2025) 430-446
4. H. Farnoush, M. Farnak, H. Abdoli, A Fluid-Flow Approach in Oxidation Evaluation of SUS 430 Steels Coated by Fe/Mn-modified MnCo<sub>2</sub>O<sub>4</sub> for Solid Oxide Fuel Cell Application, *International Journal of Hydrogen Energy* 52 D (2024) 905–915.
5. N. Ramezannejad, H. Farnoush, Effect of graphene oxide on micro-tribological and electrochemical properties of electrophoretically deposited HA–TiO<sub>2</sub>-GO composite coatings, *Processing and Application of Ceramics* 16 [1] (2022) 30–41..
6. M. Salehi, S. H. Li, M. Gupta, H. Farnoush, S. Maleksaeed, N. M. L. Sharon, Rapid densification of additive manufactured magnesium alloys via microwave sintering, *Additive Manufacturing*, 37, (2021) 101655.
7. P. Eshghinejad, H. Farnoush, M. S. Bahrami, H.R. Bakhsheshi-Rad, E. Karamian, X.B. Chen, Electrophoretic deposition of bioglass/graphene oxide composite on Ti-alloy implants for improved antibacterial and cytocompatible properties, *Materials Technology* 35 (2020) 69-74.
8. H. Abdoli, S. Molin, H. Farnoush, Effect of interconnect coating procedure on solid oxide fuel cell performance, *Materials Letters* 259 (2020) 126898.

9. S. Hosseini, H. Farnoush, Characterization and in vitro bioactivity of electrophoretically deposited Mn-modified bioglass-alginate nanostructured composite coatings, *Materials Research Express* 6 (2019) 025404.
10. M. Salehi, S. Maleksaeedi, H. Farnoush, N. M. L. Sharon, G. K. Meenashisundaram, M. Gupta, An Investigation into Interaction Between Magnesium Powder and Ar gas: Implications for Selective Laser Melting of Magnesium, *Powder Technology* 333 (2018) 252–261.
11. H. Farnoush, Z. Rezaei, Effect of suspension stability on bonding strength and electrochemical behavior of electrophoretically deposited HA-YSZ nanostructured composite coatings, *Ceramics International* 43 (2017) 11885–11897.
12. H. Farnoush, J. Aghazadeh Mohandesi, H. Cimenoglu, Micro-scratch and corrosion behavior of functionally graded HA-TiO<sub>2</sub> nanostructured composite coatings fabricated by electrophoretic deposition, *Journal of the Mechanical Behavior of Biomedical Materials* 46C (2015) 31–40.
13. H. Farnoush, G. Aldic, H. Cimenoglu, Functionally graded HA-TiO<sub>2</sub> nanostructured composite coating on Ti-6Al-4V substrate via electrophoretic deposition, *Surface and Coatings Technology* 265C (2015) 7–15.
14. H. Farnoush, F. Muhaffel, H. Cimenoglu, Fabrication and characterization of nano-HA-45S5 bioglass composite coatings on calcium-phosphate containing micro-arc oxidized CP-Ti substrates, *Applied Surface Science* 324C (2015) 765–774.
15. M. Salehi, H. Farnoush, A. Heydarian, J. Aghazadeh Mohandesi, Improvement of mechanical properties in the functionally-graded aluminum matrix nanocomposites fabricated via a novel multistep friction stir processing, *Metallurgical and Materials Transactions B* 46 (2015) 20–29.
16. M. Salehi, H. Farnoush, J. Aghazadeh Mohandesi, Fabrication and characterization of functionally graded Al-SiC nanocomposites by using a novel multistep friction stir processing, *Materials and Design* 63 (2014) 419–426.
17. H. Farnoush, A. Abdi Bastami, A. Sadeghi, J. Aghazadeh Mohandesi, F. Moztarzadeh, Tribological and corrosion behavior of friction stir processed Ti-CaP nanocomposites in simulated body fluid solution, *Journal of the Mechanical Behavior of Biomedical Materials* 20 (2013) 90–97.
18. H. Farnoush, J. Aghazadeh Mohandesi, D. H. Fatmehsari, Effect of particle size on the electrophoretic deposition of hydroxyapatite coatings: a kinetic study based on a statistical analysis, *International Journal of Applied Ceramic Technology* 10 (2013) 87–96.

19. H. Farnoush , A. Sadeghi, A. Abdi Bastami, F. Moztarzadeh, J. Aghazadeh Mohandesi, An innovative fabrication of nano-HA coatings on Ti-CaP nanocomposite layer using a combination of friction stir processing and electrophoretic deposition, *Ceramics International* 39 (2013) 1477–1483.
20. A. Abdi Bastami, H. Farnoush, A. Sadeghi, J. Aghazadeh Mohandesi, Sol-gel derived nano-hydroxyapatite film on friction stir processed Ti-6Al-4V substrate, *Surface Engineering* 29 (2013) 205–210.
21. H. Farnoush, J. Aghazadeh Mohandesi, D. H. Fatmehsari, F. Moztarzadeh, Modification of electrophoretically deposited nano-hydroxyapatite coatings by wire brushing on Ti-6Al-4V substrates, *Ceramics International* 38 (2012) 4885–4893.
22. H. Farnoush, J. Aghazadeh Mohandesi, D. H. Fatmehsari, F. Moztarzadeh, A kinetic study on the electrophoretic deposition of hydroxyapatite-titania nanocomposite based on a statistical approach, *Ceramics International* 38 (2012) 6753–6767.
23. H. Farnoush , D. H. Fatmehsari, A. Ekrami, The effect of pre-straining at intermediate temperatures on the mechanical behavior of high-bainite dual phase (HBDP) steels, *Materials Science and Engineering A* 543 (2012) 224–230.
24. H. Farnoush, D. H. Fatmehsari, J. Aghazadeh Mohandesi, H. Abdoli, Evaluation of strengthening behavior of Al-AlN nanostructured composite by the use of modified Heckel model and response surface methodology, *Journal of Alloys and Compounds* 517 (2012) 45–53.
25. H. Abdoli, H. Farnoush, H. Asgharzadeh, S.K. Sadrnezhad, Effect of high-energy ball-milling on compressibility of a nanostructured composite powder, *Powder Metallurgy* 54 (2011) 24–29.
26. H. Farnoush, A. Momeni, K. Dehghani, J. Aghazadeh Mohandesi, H. Keshmiri , Hot deformation characteristics of 2205 duplex stainless steel based on the behavior of constituent phases, *Materials and Design* 31 (2010) 220–226.
27. H. Abdoli, H. Farnoush, E. Salahi, K. Pourazrang, Study of the densification of a nanostructured composite powder, Part I: effect of compaction pressure and reinforcement addition, *Materials Science and Engineering A* 486 (2008) 580–584.
28. H. Abdoli, E. Salahi, H. Farnoush, K. Pourazrang, Evolutions during synthesis of Al-AlN nanostructured composite powder by mechanical alloying, *Journal of Alloys and Compounds* 461 (2008) 166–172.

## Conference Publications:

Cyclodextrin-Metal–Organic Framework (CD-MOF) as efficient carrier for sustained drug delivery, The 9th International Conference on Composites: Characterization, Fabrication, and Application (CCFA-9), **18-19 December 2024**, Tehran, Iran.

Oxidation Kinetics of AISI 430 Interconnects Coated by  $\text{MnCo}_2\text{O}_4$  for Solid Oxide Fuel Cell Application Based on Fluid Dynamics, *13<sup>th</sup> Iran International Conference & Exhibition on Materials Science & Metallurgical Engineering (IMAT 2024)*, **10-11 December 2024**, Karaj, Iran.

Machine learning approach for investigation of oxidation behavior in metallic alloys: A survey and a case study, *The 12<sup>th</sup> Global Conference on Materials Science and Engineering (CMSE 2023)*, **27-30 October 2023**, Shenzhen, China.

Synthesis and characterization of strontium-doped layered double hydroxide, *11<sup>th</sup> Iran International Conference & Exhibition on Materials Science & Metallurgical Engineering (IMAT 2022)*, **13-14 December 2022**, Tehran, Iran.

Synthesis and characterization of zirconia-modified hardstonite ceramic powders, *2<sup>nd</sup> International Conference on Industrial Application of Advanced Materials and Manufacturing*, **20-21 July 2022**, Tehran, Iran.

Synthesis of manganese-cobalt powder modified with iron and yttrium co-dopants as coatings on solid oxide fuel cell interconnects, *5<sup>th</sup> Hydrogen & Fuel Cell Conference (HFCC5)*, **16-17 February 2021**, Tehran, Iran.

Synthesis of cobalt-manganese spinel oxide particles modified by samarium for solid oxide fuel cell application, *8<sup>th</sup> Iran International Conference & Exhibition on Materials Science & Metallurgical Engineering (IMAT 2019)*, **7-9 October 2019**, Tehran, Iran.

Optimization of temperature and welding time of WC-8Co composite microstructure made by fast hot pressing method, *8<sup>th</sup> Iran International Conference & Exhibition on Materials Science & Metallurgical Engineering (IMAT 2019)*, **7-9 October 2019**, Tehran, Iran.

Synthesis of Manganese-Cobalt (MCO) Spinel Particles and Investigation of the Effect of Adding Copper and Samarium Elements on Its Crystal Structure for Solid Oxide Fuel Cell Application, *6<sup>th</sup> Nanotechnology Conference in Power and Energy*, **9-11 September 2019**, Tehran, Iran.

Characterization of (Ni, Nd) Co-doped Mn-Co spinel nanopowders for SOFC application, *International Conference on Renewable Energy & Distributed Generation of Iran (ICREDG 2019)*, **11-12 June 2019**, Tehran, Iran.

Characterization of Bredigite-Chitosan Nanostructured Composite Coatings on AZ31 Magnesium Alloy for Biomedical Applications, *19<sup>th</sup> Iranian National Seminar on Surface Engineering*, **13-14 February 2019**, Isfahan, Iran.

Characterization of Electrophoretically Deposited Akermanite-Chitosan Composites on AZ31 Magnesium Alloy, *19<sup>th</sup> Iranian National Seminar on Surface Engineering*, **13-14 February 2019**, Isfahan, Iran.

Characterization of sol-gel derived Ni-modified Mn-Co spinel nanopowders for SOFC application, *6<sup>th</sup> Annual Clean Energy Conference*, **27-28 February 2019**, Shiraz, Iran

Micro-scratch Behavior of Friction Stir Processed Al-SiC Nanostructured Composites, *6<sup>th</sup> International Conference on Composites: Characterization, Fabrication and Application (CCFA-6)*, **11-12 December 2018**, Tehran, Iran

Increasing Osteoconduction and Osseointegration of Titanium Surface by a Novel Surface Treatment Coated by Hydroxyapatite-Nanoclay Composite, *6<sup>th</sup> International Conference on Composites: Characterization, Fabrication and Application (CCFA-6)*, **11-12 December 2018**, Tehran, Iran

Electrophoretic Deposition of Cu-doped Mn-Co Spinel Oxide Nanostructured Coatings on SUS 430 Alloy for Solid Oxide Fuel Cell Interconnect Application, *7<sup>th</sup> International Conference on Materials Engineering and Metallurgy (IMAT 2018)*, **9-10 October 2018**, Tehran, Iran.

Synthesis and Characterization of Bioactive Sr-doped Bredigite  $\text{Ca}_7\text{MgSi}_4\text{O}_{16}$  Nanopowders via Sol-gel Auto-combustion Method, *7<sup>th</sup> International Congress on Nanoscience & Nanotechnology (ICNN 2018)*, **26-28 September 2018**, Tehran, Iran.

Synthesis and characterization of Cu-doped  $(\text{Mn}, \text{Co})_3\text{O}_4$  spinel nanopowders for solid oxide fuel cell (SOFC) application, *6<sup>th</sup> International Conference on Powder Metallurgy for Automotive Parts (PMAUTO 2018)*, **16-18 March 2018**, Isfahan, Iran.

Increasing Adhesion of Hydroxyapatite-Nanoclay Composite Coatings on Titanium Substrates by a Novel Surface Treatment, *7<sup>th</sup> International Conference on Nanostructures*, **27 February-1 March 2018**, Tehran, Iran.

Electrochemical Behavior of Mn-modified Bioglass/Alginate Composite Coatings, *3<sup>rd</sup> National Conference of Materials Engineering, Metallurgy and Mining*, **25 February 2018**, Ahvaz, Iran.

Synthesis and Characterization of Mn-modified Bioglass for Biomedical Application, *3<sup>rd</sup> National Conference of Materials Engineering, Metallurgy and Mining*, **25 February 2018**, Ahvaz, Iran.

Electrophoretic Deposition of Co-doped Lanthanum Strontium Titanate nanoparticles as Diffusion Barrier Layers on SUS 430 Interconnects for Solid Oxide Fuel Cell Application, *6<sup>th</sup> International Conference on Materials Engineering and Metallurgy (IMAT 2017)*, **28-29 October 2017**, Tehran, Iran.

Fabrication and Characterization of Nanostructured Copper-Graphene Oxide Composite via Friction Stir Processing, *6<sup>th</sup> International Conference on Materials Engineering and Metallurgy (IMAT 2017)*, **28-29 October 2017**, Tehran, Iran.

Electrochemical Characterization of Multi-Metal Oxide Anodes in Electrowinning Process of Copper, *6<sup>th</sup> International Conference on Materials Engineering and Metallurgy (IMAT 2017)*, **28-29 October 2017**, Tehran, Iran.

Transient Liquid Phase Bonding of Similar Titanium/Titanium Joints, *6<sup>th</sup> International Conference on Materials Engineering and Metallurgy (IMAT 2017)*, **28-29 October 2017**, Tehran, Iran.

Hot Compression Behavior of Severe Plastic Deformed AA6061-SiC Nanostructured Composites, *5<sup>th</sup> International Conference on Composites: Characterization, Fabrication and Application (CCFA-5)*, **20-21 December 2016**, Iran University of Science & Technology, Iran

Influence of Hot-wall Plasma Nitriding Treatment on Fatigue Behavior of 1.6582 Steel, *5<sup>th</sup> International Conference on Science and Engineering*, **13 December 2016**, Paris, France.

Mechanical Properties of Nanostructured HA-YSZ Composite Coatings on Ti-6Al-4V, *6<sup>th</sup> International Congress on Nanoscience and Nanotechnology (ICNN 2016)*, **26-28 October 2016**, Kharazmi University, Iran

Synthesis and Characterization of Nanostructured Ce-modified  $(\text{Mn,Co})_3\text{O}_4$  Spinel for Solid Oxide Fuel Cell Application, *6<sup>th</sup> International Congress on Nanoscience and Nanotechnology (ICNN 2016)*, **26-28 October 2016**, Kharazmi University, Iran

Synthesis and Characterization of Nanostructured  $\text{Fe}_x\text{Mn}_{1.5-x/2}\text{Co}_{1.5-x/2}\text{O}_4$  Spinel for Solid Oxide Fuel Cell Application, *4<sup>th</sup> Nanotechnology Conference in Power and Energy*, **23-24 August 2016**, Niroo Research Institute, Iran

Synthesis and Characterization of Nanostructured  $\text{Y}_x\text{Mn}_{1.5-x/2}\text{Co}_{1.5-x/2}\text{O}_4$  Spinel for Solid Oxide Fuel Cell Application, *5<sup>th</sup> International Conference on Nanostructures (ICNS5)*, **7-10 March 2016**, Kish Island, Iran

Fabrication and Characterization of Mn-modified  $\text{MnCo}_2\text{O}_4$  Spinel Coatings on Solid Oxide Fuel Cell Interconnects, *16<sup>th</sup> Iranian National Seminar on Surface Engineering*, **16-18 February 2016**, IHSRC Corporation, Iran

Cu-doped Nano-  $\text{La}_{0.8}\text{Sr}_{0.2}\text{MnO}_3$  Protective Coatings on Metallic Interconnects for Solid Oxide Fuel Cell Application, *5<sup>th</sup> International Biennial Conference on Ultrafine Grained and Nanostructured Materials (UFGNSM15)*, **11-12 November 2015**, University of Tehran, Iran

Nano-45S5 Bioglass Coating on the Modified CP-Ti Substrate by MAO and EPD Processes, *5<sup>th</sup> International Biennial Conference on Ultrafine Grained and Nanostructured Materials (UFGNSM15)*, **11-12 November 2015**, University of Tehran, Iran

The Effect of Titania on the Micro-scratch Behavior of HA-TiO<sub>2</sub> Nanostructured Composite Coatings Fabricated by Electrophoretic Deposition, *1<sup>st</sup> International Conference on Advanced Ceramics*, **4-6 May 2015**, Materials & Energy Research Center (MERC), Iran.

Fabrication and Characterization of Electrophoretically Deposited Functionally Graded HA/TiO<sub>2</sub> Nanostructured Coatings, *1<sup>st</sup> International Conference on Advanced Ceramics*, **4-6 May 2015**, Materials & Energy Research Center (MERC), Iran.

Enhancements of Corrosion Behavior and Bioactivity in HA-TiO<sub>2</sub> Nanostructured Composite Coatings Fabricated by Electrophoretic Deposition, *1<sup>st</sup> International Conference on Advanced Ceramics*, **4-6 May 2015**, Materials & Energy Research Center (MERC), Iran.

Characterization and Corrosion Behavior of Electrophoretically Deposited HA-BG Nanostructured Composite on the Modified CP-Ti Substrate, *NCWNN1394*, **20-21 May 2015**, Kharazmi University, Iran.

Surface Modification of CP-Ti Substrate by Combining Micro-arc Oxidation and Electrophoretic Deposition, *9<sup>th</sup> Coatings Science International*, **24-28 June 2013**, Noordwijk, Netherlands.

Corrosion Behavior of the Sol-gel Derived Nano-hydroxyapatite Film on the Modified Titanium Substrate, *14<sup>th</sup> National Corrosion Congress*, **14-16 May 2013**, University of Tehran, Iran.

Fabrication of Ti–CaP Nanocomposite Layer by Friction Stir Processing, *11<sup>th</sup> Condensed Matter Physics Conference of Iran*, **7-8 January 2013**, Shahrood University of Technology, Iran.

Electrophoretic Deposition of Hydroxyapatite-Titania Nanocomposites on Ti-6Al-4V Substrates, *4<sup>th</sup> International Congress on Nanoscience and Nanotechnology*, **8-10 September 2012**, University of Kashan, Iran.

Biomimetic Synthesis of Nano-hydroxyapatite Coatings on Friction Stir Processed Ti-6Al-4V substrates, *4<sup>th</sup> International Congress on Nanoscience and Nanotechnology*, **8-10 September 2012**, University of Kashan, Iran.

An Oxidation Kinetic Model for AlN Nanopowders, *7<sup>th</sup> Iranian Ceramic Congress*, **28-29 April 2009**, University of Shiraz, Iran.

Thermokinetic Study on Oxidation Behavior of Aluminum Nitride Powders, *1<sup>st</sup> National Congress of Refractory*, **14-15 April 2009**, Materials & Energy Research Center (MERC), Iran.

**Patents:**

Fabrication of Ti-CaP Nanocomposite by Friction Stir Processing, National Patent, ID: 80062, **2013**.

Fabrication of Titania-Hydroxyapatite Nanocomposite by Friction Stir Processing, National Patent, ID: 80039, **2013**.