

## Fathallah Karimzadeh

### Curriculum Vitae

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#### *PERSONAL DETAILS*

*Name and Family: Fathallah Karimzadeh*

**Birthday:** 11 July 1973

*Academic Position: Associate Professor*

*Address: Department of Materials Engineering, Isfahan University of Technology, Isfahan 84156-83111, IRAN*

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#### Academic Degrees

**B.Sc. (1995).** Department of Materials Engineering, Isfahan University of Technology (IUT), Isfahan, Iran,

**M. Sc. (1998):** Department of Materials Engineering, IUT, Isfahan, Iran

**Ph.D. (2003):** Department of Materials Engineering, IUT, Isfahan, Iran.

## **Research Interests**

The most research interest is in the Nanoscience, Nanotechnology and Advanced Materials including:

- Nano effects on materials properties especially physical and thermodynamic properties.
- Synthesis, characterization and application of Nanomaterials (Nanostructured Materials, Nanocomposites, Nanoparticles) especially functional nanomaterials.
- Evolutions of Mechanical and Tribological behavior of Nanostructured Materials
- Joining of Nanostructured Materials

## **Honors & Awards**

1. **Distinguished Young Elite Award**, Isfahan Provinc, **2009**.
2. **Distinguished Young Researcher Award**, Isfahan University of Technology, **2009**.
3. **National Elite Foundation Award** by vice-president of science and technology for outstanding youth assistant professors, **2008**.
4. **Best Presented Paper Award** in 2nd International Congress on Nanoscience and Nanotechnology, **2008**.
5. **Best Presented Paper Award** in 11th Iranian Metallurgical Engineers Society Congress, **2007**.
6. **Outstanding Student Award in the Country** by the President of Islamic Republic of Iran, **2004**.
7. **Outstanding Student Award** by the chancellor of Isfahan University of Technology, **2003**.
8. **Youth Kharazmi Festival Award** for outstanding research, Ministry of Science, Research and Technology of Iran, **2003**.
9. **Outstanding Research Award** by IAIO, **2002**.
10. **Outstanding Research Award** by HESA, **2001**.

## **Employment History and Administration Works**

**2008-present:** Associate Professor, Department of Materials Engineering, Isfahan University of Technology, Iran.

**2004-2008:** Assistant Professor, Department of Materials Engineering, Isfahan University of Technology, Iran.

**2009- present:** Director of Nanotechnology & Advanced Materials Institute (NAMI), Isfahan University of Technology

**2007-Present:** Head of Nanotechnology Committee, Isfahan Province Strategic Council of New Technology

**2005-present:** *Member of Isfahan University of Technology Exceptional Talents Office.*

**2009-Present:** Editorial Board of Journal of Advanced Materials in Engineering, Isfahan University of Technology, Isfahan, Iran

**2006-2009:** Head of Nanostructured & Advanced Materials Committee, Isfahan University of Technology, Iran

**2009** Founder of Nanotechnology & Advanced Materials Institute (NAMI), Isfahan University of Technology, Isfahan, Iran

**2008** Founder Member of Nanostructured Materials Group, Isfahan University of Technology, Isfahan, Iran

**2008** Founder of Friction Stir Processing Research Laboratory, Department of Materials Engineering, Isfahan University of Technology, Iran.

**2009** Founder of Friction Welding Research Laboratory, Department of Materials Engineering, Isfahan University of Technology, Isfahan, Iran.

**2007** Founder Member of Mechanical Alloying Research Laboratory, Department of Materials Engineering, Isfahan University of Technology, Isfahan, Iran.

**2007** Founder Member of Nanomaterials Research Laboratory, Department of Materials Engineering, Isfahan University of Technology, Isfahan, Iran.

**2005-2008:** Member of Executive, Iranian Society of Surface Science and Technology.

2006- present: Member of Iranian Nano-Technology Society

2007-present: Member of Nanostructured Materials Group, Isfahan University of Technology, Iran.

### **Book**

Karimzadeh F., Ghassemali E., Salemizadeh S., “**Nanomaterials, roperties, Synthesis & Application**” JDIUT Publication, 2005.

### **Registered Patents**

1. “Fabrication of Nickel nanostrutred by milling”, Patent No. 42456, Iranian Patent.
2. “Synthesis of nanocrystalline NiTi intermetallic by mechanical alloying”, Patent No. 42453, Iranian Patent.
3. “Synthesis of NiTi-Al<sub>2</sub>O<sub>3</sub> intermetallic nanocomposite by mechanochemical”, Patent No. 42455, Iranian Patent.
4. “Fabrication of FeNi-Al<sub>2</sub>O<sub>3</sub> nanocomposite by mechanical alloying”, Patent No. 42454, Iranian Patent.
5. Synthesis of TiAl-Al<sub>2</sub>O<sub>3</sub> intermetallic nanocomposite, Patent No 54358.
6. Fabrication of nanostructured Titanium Aluminid, Patent No 54364.
7. Microstructural Modification of Titanium Alloy Weldment by Boronized filler Metals. Patent No. 29060, Iranian Patent.
8. Evaluation of permission misalignment & gap for fusion welding of thin sheet alloys. Patent No. 29061, Iranian Patent.
9. Fabrication of nanostrutred Niobium – Aluminid compound by mechanical alloying”, Patent No. 52209, Iranian Patent.
9. Fabrication of nanostrutred CK-45 Steel by mechanical alloying”, Patent No. 52208, Iranian Patent.

## International Journal Papers

- 1\_ SALEHI M., KARIMZADEH F., TAHVILIAN A., "Formation of Ti-Ni Intermetallic Coatings on Carbon Tool Steel by a Dublex Process", *surface & coatings technology*, No. 148, PP. 55-60, 2001.
- 2\_ SALEHI M., TAHVILIAN A., KARIMZADEH F., "Surface characterisation and tribological properties of Ti-Al intermetallic compound coatings on ferrous substrates", *surface engineering*, Vol. 20, No. 8, PP. 368-372, 2002.
- 3\_ KARIMZADEH F., SALEHI M., SAATCHI A., MERATIAN ISFAHANI M., "Effect of microplasma arc welding process parameters on grain growth and porosity distribution of thin sheet Ti6Al4V alloy weldment", *materials and manufacturing processes*, Vol. 20, No. 2, PP. 205-220, 2005.
- 4\_ DADFAR M., FATHI M., KARIMZADEH F., DADFAR M.R., SAATCHI A., "Effect of TIG welding on corrosion behavior of 316L stainless steel", *materials letters*, No. 21, PP. 2343-2346, 2006.
- 5\_ KARIMZADEH F., EBNONNASIR A., Foroughi, "Artificial neural network modeling for evaluating of Epitaxial Growth of Ti6Al4V Weldment", *materials science and engineering a-structural materials properties microstructure and processing*, No. 432, PP. 184-190, 2006.
- 6\_ KARIMZADEH F., ZEIAEIRAD S., ADIBISEDE S., "Modeling Considerations and Material Properties Evaluation in Analysis of Carbon Nano-tubes Composite", *metallurgical and materials transactions b-process metallurgy and materials processing science*, Vol. 38, PP. 695-705, 2007.
- 7\_ ENAYATI M., KARIMZADEH F., ANVARI S., "Synthesis of nanocrystalline NiAl by mechanical alloying", *journal of materials processing technology*, No. 200, PP. 312-315, 2008.
- 8\_ KARIMZADEH F., ENAYATI M., TAVOSI M., "Synthesis and Characterization of Zn/Al<sub>2</sub>O<sub>3</sub> Nanocomposite by Mechanical Alloying ", *materials science and engineering a-structural materials properties microstructure and processing*, Vol. 486, PP. 45-48, 2008.
- 9\_ KARIMZADEH F., HEIDARBEIGY M., SAATCHI A., "Effect of heat treatment on corrosion behavior of Ti-6Al-4V alloy weldments", *journal of materials processing technology*, 2008.
- 10\_ KHODAIE M., ENAYATI M., KARIMZADEH F., "Mechanochemical behaviour of Fe<sub>2</sub>O<sub>3</sub>-Al-Fe powder mixtures to produce Fe<sub>3</sub>Al-Al<sub>2</sub>O<sub>3</sub> nanocomposite powder", *journal of materials science*, Vol. 43, PP. 132-138, 2008.
- 11\_ KHODAIE M., KARIMZADEH F., ENAYATI M., "Fabrication of iron-alumina nanocomposite powder by high energy ball milling of hematite-aluminum powder mixture", *international journal of modern physics b*, Vol. 22, No. 18-19, PP. 3233-3236, 2008.
- 12\_ MOUSAVI T., ABBASI M., KARIMZADEH F., ENAYATI M., "Heat treatment on structure and properties of synthesized nanocrystalline NiTi intermetallic by mechanical alloying", *international journal of modern physics b*, Vol. 22, No. 18-19, PP. 2970-2978, 2008.

- 13\_ MOUSAVI T., KARIMZADEH F., ABBASI M., "Mechanochemical Assisted Synthesis of NiTi Intermetallic Based Nanocomposite Reinforced by Al<sub>2</sub>O<sub>3</sub>", *journal of alloys and compounds*, No. 12 , 2008.
- 14\_ MOUSAVI T., KARIMZADEH F., ABBASI M., "Synthesis and Characterization of Nanocrystalline NiTi Intermetallic by Mechanical Alloying", *materials science and engineering a-structural materials properties microstructure and processing*, Vol. 487, PP. 46-51, 2008.
- 15\_ MOUSAVI T., KARIMZADEH F., ABBASI M., ENAYATI M., "Investigation of Ni nanocrystallization and the effect of Al<sub>2</sub>O<sub>3</sub> addition by high-energy ball milling", *journal of materials processing technology*, Vol. 204, PP. 125-129, 2008.
- 16\_ YADOLLAHPOUR M., KADKHODAPOUR J., ZEIAEIRAD S., KARIMZADEH F., "An experimental and numerical investigation on damping capacity of nanocomposite", *materials science and engineering a-structural materials properties microstructure and processing*, Vol. 507, No. 507, PP. 149-154, 2009.
- 17\_ TAVOOSI M., KARIMZADEH F., ENAYATI M., HEIDARPOUR A., "Bulk Al-Zn/Al<sub>2</sub>O<sub>3</sub> nanocomposite prepared by reactive milling and hot pressing methods", *journal of alloys and compounds* , 2008.
- 18\_ TAVOSI M., ENAYATI M., KARIMZADEH F., "Softening behaviour of nanostructured Al-14wt%Zn alloy during mechanical alloying", *journal of alloys and compounds*, Vol. 464, PP. 107-110, 2008.
- 19\_ TAVOSI M., KARIMZADEH F., ENAYATI M., "Fabrication of Al-Zn/a-Al<sub>2</sub>O<sub>3</sub> nanocomposite by mechanical alloying", *materials letters*, No. 62, PP. 282-285, 2008.
- 20\_ HEIDAR BEIGHI M., KARIMZADEH F., SAATCHI A., "Corrosion and Galvanic Coupling of Heat treated Ti-6Al-4V Alloy Weldment", *materials letters*, No. 62, PP. 1575-1578, 2008.
- 21\_ ANVARI S., KARIMZADEH F., ENAYATI M., "Synthesis and Characterization of NiAl – Al<sub>2</sub>O<sub>3</sub> nanocomposite powder by mechanical alloying", *journal of alloys and compounds*, Vol. 477, PP. 178-181, 2009.
- 22\_ AZADEHRANJBAR S., KARIMZADEH F., ENAYATI M., "Synthesis and characterization of nanocrystalline FeNi and Ni<sub>3</sub>Fe alloys", *international journal of modern physics b* , 2009.
- 23\_ EBNONNASIR A., KARIMZADEH F., ENAYATI M., "Novel artificial neural network model for evaluating hardness of stir zone of submerge friction stir processed Al 6061-T6 plate", *materials science and technology* , 2009.
- 24\_ FOROUZANMEHR N., KARIMZADEH F., ENAYATI M., "Study on solid state reactions of nanocrystalline TiAl synthesized by mechanical alloying", *journal of alloys and compounds* , 2009.
- 25\_ FOROUZANMEHR N., KARIMZADEH F., ENAYATI M., "Synthesis and characterization of TiAl/a-Al<sub>2</sub>O<sub>3</sub> nanocomposite by mechanical alloying", *journal of alloys and compounds*, Vol. 478, PP. 257-259, 2009.

- 26\_ HEIDARPOUR A., KARIMZADEH F., ENAYATI M., "In-situ synthesis mechanism of Al<sub>2</sub>O<sub>3</sub>-Mo nanocomposite by ball milling process", *journal of alloys and compounds*, Vol. 477, PP. 692-695, 2009.
- 27\_ HOSSEINI NOHOUI N., ABBASI M., KARIMZADEH F., ENAYATI M., "Structural evolution and grain growth kinetics during isothermal heat treatment of nanostructured Al6061", *materials science and engineering a-structural materials properties microstructure and processing*, Vol. 525, PP. 107-111, 2009.
- 28\_ HOSSEINI NOHOUI N., KARIMZADEH F., ABBASI M., ENAYATI M., "Fabrication and characterization of nanostructured Al6061 alloy and its aging behavior", *international journal of modern physics b*, 2009.
- 29\_ JAFARI BAHRAMABADI M., ENAYATI M., ABBASI M., KARIMZADEH F., "Thermal stability and structural changes during heat treatment of nanostructured Al2024 alloy", *journal of alloys and compounds*, Vol. 478, PP. 260-264, 2009.
- 30\_ JALALY M., ENAYATI M., KAMELI P., KARIMZADEH F., "Effect of composition on structural and magnetic properties of nanocrystalline ball milled Ni<sub>1-x</sub>Zn<sub>x</sub>Fe<sub>2</sub>O<sub>4</sub> ferrite", *physica b-condensed matter*, 2009.
- 31\_ JALALY M., ENAYATI M., KAMELI P., KARIMZADEH F., "Synthesis, grain growth, Cu-doping and magnetic properties of nanocrystalline Ni-Zn ferrite", *international journal of modern physics b*, 2009.
- 32\_ JALALY M., ENAYATI M., KARIMZADEH F., "Investigation of structural and magnetic properties of nanocrystalline Ni<sub>0.3</sub>Zn<sub>0.7</sub>Fe<sub>2</sub>O<sub>4</sub> prepared by high energy ball milling", *journal of alloys and compounds*, Vol. 480, PP. 737-740, 2009.
- 33\_ JALALY M., ENAYATI M., KARIMZADEH F., KAMELI P., "Mechanosynthesis of nanostructured magnetic Ni-Zn ferrite", *powder technology*, Vol. 193, PP. 150-153, 2009.
- 34\_ KADKHODAPOUR J., ZEIAEIRAD S., KARIMZADEH F., "Finite-element modeling of rate dependent mechanical properties in nanocrystalline materials", *computational materials science*, 2009.
- 35\_ KHODAIE M., ENAYATI M., KARIMZADEH F., "Mechanochemically synthesized Fe<sub>3</sub>Al-Al<sub>2</sub>O<sub>3</sub> nanocomposite", *journal of alloys and compounds*, Vol. 467, PP. 159-162, 2009.
- 36\_ KHODAIE M., ENAYATI M., KARIMZADEH F., "The structure and mechanical properties of Fe<sub>3</sub>Al-30 vol.% Al<sub>2</sub>O<sub>3</sub> nanocomposite", *journal of alloys and compounds*, 2009.
- 37\_ MOHAMMAD SHARIFI E., KARIMZADEH F., ENAYATI M., "A study on mechanochemical behavior of B<sub>2</sub>O<sub>3</sub>-Al system to produce alumina-based nanocomposite", *journal of alloys and compounds*, Vol. 482, PP. 110-113, 2009.
- 38\_ MOHAMMAD SHARIFI E., KARIMZADEH F., ENAYATI M., "Fabrication of aluminum matrix hybrid nanocomposite by mechanical alloying", *international journal of modern physics b*, Vol. 23, No. 23, PP. 4825-4832, 2009.

- 39\_ MOUSAVI T., ABBASI M., KARIMZADEH F., "Thermodynamic analysis of NiTi formation by mechanical alloying", *materials letters*, Vol. 63, PP. 786-788, 2009.
- 40\_ RAFIEI M., ENAYATI M., KARIMZADEH F., "Characterization and formation mechanism of nanocrystalline (Fe,Ti)<sub>3</sub>Al intermetallic compound prepared by mechanical alloying", *journal of alloys and compounds*, Vol. 480, PP. 392-396, 2009.
- 41\_ RAFIEI M., ENAYATI M., KARIMZADEH F., "Mechanochemical synthesis of (Fe,Ti)<sub>3</sub>Al-Al<sub>2</sub>O<sub>3</sub> nanocomposite", *journal of alloys and compounds*, 2009.
- 42\_ TAVOSI M., KARIMZADEH F., ENAYATI M., "Wear behavior of Al-Al<sub>2</sub>O<sub>3</sub> nanocomposites prepared by mechanical alloying and hot pressing", *materials science and technology*, 2009.
- 43\_ ASHIRI R., NIROUMAND B., KARIMZADEH F., POURANVARI M.,HAMANI M., "Effect of casting process on microstructure and tribological behavior of LM13 alloy", *journal of alloys and compounds*, Vol. 475, PP. 321-327, 2009.
- 44\_ JAFARI BAHRAMABADI M., ENAYATI M., ABBASI M., KARIMZADEH F., "Compressive and wear behaviors of bulk nanostructured Al<sub>2</sub>O<sub>3</sub> alloy", *materials & design*, Vol. 31, PP. 663-669, 2010.
- 45\_ MOHAMMAD SHARIFI E., KARIMZADEH F., ENAYATI M., "Mechanochemically synthesized Al<sub>2</sub>O<sub>3</sub>-TiC nanocomposite", *journal of alloys and compounds*, 2010.
- 46\_ NICKSERESHT Z., KARIMZADEH F., GOLOZAR M.A., HEIDARBEIGI M., "Effect of heat treatment on microstructure and corrosion behaviour of 6061 aluminium alloy weldment", *materials & design*, 2010.
- 47\_ YAZDIAN N., KARIMZADEH F., TAVOSI M., " Microstructural evolution of nanostructure Al7075 alloy during isothermal annealing", *journal of alloys and compounds*, 2010.
- 48\_ MOSTAAN H., ABBASI M.H., KARIMZADEH F., " Mechanochemical assisted synthesis of Al<sub>2</sub>O<sub>3</sub>/Nb nanocomposite by mechanical alloying", *journal of alloys and compounds*, 2010.
- 49\_ ENAYATI M., KARIMZADEH F., TAVOOSI M., MOVAHEDI B., TAHVILIAN A., "Nanocrystalline NiAl coating prepared by HVOF thermal spraying", *journal of thermal spray technology*, 2010.
- 50\_ HEIDARPOUR A., KARIMZADEH F., ENAYATI M., "Fabrication and characterisation of bulk Al<sub>2</sub>O<sub>3</sub>/Mo nanocomposite by mechanical milling and sintering", *powder metallurgy*, Vol. 1, No. 1, 2010.
- 51\_ HOSSEINI NOHOUI N., KARIMZADEH F., ABBASI M., ENAYATI M., "Tribological properties of Al6061–Al<sub>2</sub>O<sub>3</sub> nanocomposite prepared by milling and hot pressing", *materials & design*, No. 31, PP. 4777-4785, 2010.



- 52\_ MAHBOUBI SOUFIANI A., ENAYATI M., KARIMZADEH F., "Fabrication and characterization of nanostructured Ti6Al4V powder from machining scraps," advanced powder technology, Vol. 21, No. 3, PP. 336-340, 2010.
- 53\_ MAHBOUBI SOUFIANI A., ENAYATI M., KARIMZADEH F., "Mechanical alloying behavior of Ti6Al4V residual scraps with addition of Al<sub>2</sub>O<sub>3</sub> to produce nanostructured powder", materials & design, Vol. 31, PP. 3954-3959, 2010.
- 54\_ MOHAMMAD SHARIFI E., KARIMZADEH F., ENAYATI M., "Mechanochemical assisted synthesis of B<sub>4</sub>C nanoparticles", advanced powder technology, Vol. 1 , 2010.
- 55\_ ZAHMATKESH B., ENAYATI M., KARIMZADEH F., "Tribological and microstructural evaluation of friction stir processed Al<sub>2024</sub> alloy", materials & design, Vol. 31, No. 10, PP. 4891-4896, 2010.
- 56\_ MOHAMMAD SHARIFI E., KARIMZADEH F., ENAYATI M., "Preparation of Al<sub>2</sub>O<sub>3</sub>-TiB<sub>2</sub> nanocomposite powder by mechanochemical reaction between Al, B<sub>2</sub>O<sub>3</sub> and Ti", advanced powder technology, Vol. 1 , 2010.
- 57\_ MOHAMMAD SHARIFI E., KARIMZADEH F., ENAYATI M., "Synthesis of titanium diboride reinforced alumina matrix nanocomposite by mechanochemical reaction of Al-TiO<sub>2</sub>-B<sub>2</sub>O<sub>3</sub>", journal of alloys and compounds, No. 502, PP. 508-512, 2010.
- 58\_ RAFIEI M., ENAYATI M., KARIMZADEH F., "The effect of Ti addition on alloying and formation of nanocrystalline structure in Fe-Al system", journal of materials science, Vol. 45, PP. 4058-4062, 2010.
- 59\_ SABOONI S., MOUSAVI T., KARIMZADEH F., "Mechanochemical assisted synthesis of Cu(Mo)/Al<sub>2</sub>O<sub>3</sub> nanocomposite", journal of alloys and compounds, No. 497, PP. 95-99, 2010
- 60-MOSTAAN H., ABBASI M., KARIMZADEH F., "Mechanochemical assisted synthesis of Al<sub>2</sub>O<sub>3</sub>/Nb nanocomposite by mechanical alloying", journal of alloys and compounds, No. 493, PP. 609-612, 2010.
- 61\_ MOSTAAN H., KARIMZADEH F., ABBASI M., "Investigation of in-situ synthesis of NbAl<sub>3</sub>/Al<sub>2</sub>O<sub>3</sub> nanocomposite by mechanical alloying and its formation mechanism", journal of alloys and compounds, No. 503, PP. 294-298, 2010.
- 62\_ MOSTAAN H., KARIMZADEH F., ABBASI M., "Non-Isothermal kinetic studies on the formation of Al<sub>2</sub>O<sub>3</sub>/Nb composite", thermochemica acta, Vol. 1 , 2010.
- 63- ZAERI M.M., ZIAEI-RAD S., VAHEDI A., KARIMZADEH F., "Mechanical modelling of carbon nanomaterials from nanotubes to buckypaper" Carbon, Vol.48, PP3916-3930, 2010.
- 64-YADOLLAH OUR M., ZEIAEIRAD S., KARIMZADEH F., ESKANDARI J., "A numerical study on the damping capacity of metal matrix nanocomposites", SIMULATION MODELLING PRACTICE AND THEORY, No. 1 , 2010.

65-YADOLLAHPOUR M., ZEIAEIRAD S., KARIMZADEH F “Finite-element modeling of damping capacity in nanocrystalline materials” International Journal of Modeling, Simulation, and Scientific Computing, Vol.1, No.3, pp421-433, 2010.

66- TAVOOSI M., ENAYATI M., KARIMZADEH F., "The crystallization process of the Al80Fe10Ti10 amorphous phase prepared by mechanical alloying", powder metallurgy , 2010.

### **International Conference Papers**

1\_ KARIMZADEH F., SAATCHI A., SALEHI M., "Control of burning and grain growth during microplasma arc welding of thin sheet alloy", *Proceedings of welding and welded structures*, PP. 68-76, 2003.

2\_ KARIMZADEH F., SALEHI M., SAATCHI A., MERATIAN ISFAHANI M., "Effect of microplasma arc welding process parameters on porosity distribution of an alpha- beta titanium alloy weld", *Proceedings of 3rd congress of iiw*, PP. 110-117, 2003.

3\_ KARIMZADEH F., SALEHI M., SAATCHI A., Kokabi A., "Microplasma arc welding of an aerospace alloy", *Proceedings of The second international and fifth national conference of iranian aerospace society*, PP. 437-442, 2004.

4\_ ADIBISEDE S., ZEIAEIRAD S., KARIMZADEH F., "FINITE ELEMENT MODELING OF CARBON NANO-TUBE BASED COMPOSITES", *Proceedings of 14th annual (international) conference on Mechanical Engineering (ISME2006)* , 2006.

5\_ KARIMZADEH F., "Mechanism of Porosity Formation in Ti6Al4V Alloy Weldment", *Proceedings of 14th annual (international) conference on Mechanical Engineering (ISME2006)* , 2006.

6\_ ANVARI S., ENAYATI M., KARIMZADEH F., "Fabrication of intermetallic matrix nanocomposite", *Proceedings of 1st International Congress on Nanoscience & Nanotechnology* , 2006.

7\_ FOROUZANMEHR N., ENAYATI M., KARIMZADEH F., "Fabrication and characterization of nanostructure Ti powder from residual machining chips", *Proceedings of 1st International Congress on Nanoscience & Nanotechnology* , 2006.

8\_ JAFARI BAHRAMABADI M., HOSSEINI NOHOUI N., ADIBISEDE S., ZEIAEIRAD S., KARIMZADEH F., "Mechanical properties Evaluation of Single-Walled Carbon Nanotubes using molecular- dynamics based finite element approach", *Proceedings of first International Congress on Nanoscience and Nanotechnology* , 2006.

9\_ MOUSAVI T., ABBASI M., ENAYATI M., KARIMZADEH F., "The effect of Al<sub>2</sub>O<sub>3</sub> on synthesis of Ni nanocrystalline powders by high energy milling", *Proceedings of 1st International Congress on Nanoscience & Nanotechnology* , 2006.

10\_ ADIBISEDE S., ZEIAEIRAD S., KARIMZADEH F., "Modeling considerations and material properties evaluation in analysis of polymer carbon nanotubes by using of square representative volume elements", *Proceedings of 1<sup>st</sup> Conference of Nanotechnology in Environments*, PP. 1, 2007.

11\_ MOUSAVI T., ABBASI M., ENAYATI M., KARIMZADEH F., "Fabrication of Nickel nanostructured powder by milling", *Proceedings of 1<sup>st</sup> Conference of Nanotechnology in Environments* , PP. 204-210, 2007.

12\_ KADKHODAPOUR J., ZEIAEIRAD S., KARIMZADEH F., HASANPOUR K., "Finite Element Analysis of Tensile Mechanical Properties in Nanocrystalline Materials", *Proceedings of 15th Annual ( International ) Conference on Mechanical Engineering ( ISME 2007 )* , PP. 265, 2007.

13\_ KHODAIE M., KARIMZADEH F., ENAYATI M., "Fabrication of iron-alumina nanocomposite powder by high energy ball milling of hematite-aluminum powder mixtures", *Proceedings of International Conference on Ultrafine Grained and Nanostructured Materials* , 2007.

14\_ MOUSAVI T., KARIMZADEH F., ABBASI M., ENAYATI M., "Heat treatment of Nanocrystalline NiTi intermetallic produced by mechanical alloying", *Proceedings of International Conference on Ultrafine Grained and Nanostructured Materials* , 2007.

15\_ ANVARI S., KARIMZADEH F., ENAYATI M., "Fabrication of NiAl–Al<sub>2</sub>O<sub>3</sub> nanocomposite by mechanical alloying", *Proceedings of 2nd International Congress on Nanoscience & Nanotechnology* , 2008.

16\_ AZADEHRANJBAR S., KARIMZADEH F., ENAYATI M., "Fabrication and characterization of mechanically alloyed nanocrystalline FeNi alloy", *Proceedings of 2nd International Congress on Nanoscience & Nanotechnology* , 2008.

17\_ EBNONNASIR A., KARIMZADEH F., ENAYATI M., "Using submerged friction stir processing to create nano grained bulk materials", *Proceedings of 2nd International Congress on Nanoscience & Nanotechnology* , 2008.

18\_ KHODAIE M., ENAYATI M., KARIMZADEH F., "In-situ iron aluminide-alumina nanostructured cermet prepared by mechanochemical process", *Proceedings of 2nd International Congress on Nanoscience & Nanotechnology* , 2008.

19\_ MOUSAVI T., KARIMZADEH F., ABBASI M., "Mechanism investigation of NiTi-20wt.%Al<sub>2</sub>O<sub>3</sub> nanocomposite formation by mechanical alloying", *Proceedings of 2nd International Congress on Nanoscience & Nanotechnology* , 2008.

20\_ SHAHNAM A., EBNONNASIR A., KARIMZADEH F., GOLOZAR M., "Achieving Nanograin size In AZ31 Mg Alloy by Submerge Friction Stir", *Proceedings of 2nd International Congress on Nanoscience & Nanotechnology* , 2008.

- 21\_ EBNONNASIR A., KARIMZADEH F., ENAYATI M., "Hardness evaluating of submerged friction stir processed Al-6061-T6 plate by a novel artificial neural network model", *Proceedings of Iran International Aluminium Conference ( IAC 2009 )* , 2009.
- 22\_ HOSSEINI NOHOUI N., ABBASI M., KARIMZADEH F., ENAYATI M., "The effect of milling time on tribological properties of Al6061-Al<sub>2</sub>O<sub>3</sub> nanocomposite prepared by milling and hot pressing methods", *Proceedings of Iran International Aluminium Conference ( IAC 2009 )* , 2009.
- 23\_ JAFARI BAHRAMABADI M., ABBASI M., ENAYATI M., KARIMZADEH F., "Fabrication and tribological properties of bulk nanostructured Al<sub>2024</sub> alloy", *Proceedings of Iran International Aluminium Conference ( IAC 2009 )* , 2009.
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