

Professor Fathallah karimzadeh
Curriculum Vitae



Personal Details

*Name and Family: **Fathallah Karimzadeh***

*Academic Position: **Professor***

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Research Interests

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

- Nanogenerators
- Photocatalysts
- Nanobiosensors
- 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

Teaching Subjects

- Nanostructured Materials
- Introduction to Nanotechnology
- Production of Nanoparticles and Fabrication of Nanostructured Materials
- Special Topics in Nano Materials Technology
- Advanced Materials
- Physical Properties of Materials
- Crystallography
- Fundamentals of Materials Science and Engineering Materials Science
- Modern Welding Technology & joining of Advanced Materials

Honors & Awards

1. **Top 2% scientists of the world, Stanford University, (2022)**
2. **Top 2% scientists of the world, Stanford University, (2021)**
3. **Distinguished Researcher Award**, Isfahan Provinc, **2020**
- 4.
5. **Distinguished Researcher Award**, Isfahan University of Technology, **2020**
- 6.
7. **Distinguished Supervisor Award**, Isfahan University of Technology, **2019**
- 8.
9. **Distinguished Researcher Award**, Isfahan University of Technology, **2015**
- 10.
11. **Distinguished Researcher Award**, Isfahan Provinc, **2013**
12. **Distinguished Supervisor Award**, Isfahan University of Technology, **2012.**
13. **Distinguished Young Elite Award**, Isfahan Provinc, **2009.**
14. **Distinguished Young Researcher Award**, Isfahan University of Technology, **2009.**
15. **Founded for Participation in the “ICTP-FANAS Conference on Trends in Nanotribology”** by the Abdus Salam International Center for Theoretical Physics (ICTP), Trieste, Italy, 2009
16. **National Elite Foundation Award** by vice-president of science and technology for outstanding youth assistant professors, **2008.**
17. **Best Presented Paper Award** in 2nd International Congress on Nanoscience and Nanotechnology, **2008.**
18. **Best Presented Paper Award** in 11th Iranian Metallurgical Engineers Society Congress, **2007.**
19. **Outstanding Student Award in the Country** by the President of Islamic Republic of Iran, **2004.**
20. **Outstanding Student Award** by the chancellor of Isfahan University of Technology, **2003.**
21. **Youth Kharazmi Festival Award** for outstanding research, Ministry of Science, Research and Technology of Iran, **2003.**

Employment History and Administration Works

2014-present: Professor, Department of Materials Engineering, Isfahan University of Technology, Iran.

2008-2014: Associate Professor, Department of Materials Engineering, Isfahan University of Technology, Iran.

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

2021: Founder Nanogenerator Research Laboratory, Department of Materials Engineering, Isfahan University of Technology, Isfahan, Iran.

2011-2015: Editorial Board of Journal of Nanomaterials (ISI), USA

2009-2013: Editorial Board of Journal of Advanced Materials in Engineering, Isfahan University of Technology, Isfahan, Iran

2009- 2011: Director of Nanotechnology & Advanced Materials Institute (NAMI), Isfahan University of Technology

2007-2011: Head of Nanotechnology Committee, Isfahan Province Strategic Council of New Technology

2005-2010: Member of Isfahan University of Technology Exceptional Talents Office.

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

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

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

2007-2011: Member of Nanostructured Materials Group, Isfahan University of Technology, Iran.

2007: Founder of Friction Stir Processing Research Laboratory, Department of Materials Engineering, Isfahan University of Technology, Iran.

2008: Founder of Friction Welding Research Laboratory, Department of Materials Engineering, Isfahan University of Technology, Isfahan, Iran.

2006: Founder of Mechanical Alloying Research Laboratory, Department of Materials Engineering, Isfahan University of Technology, Isfahan, Iran.

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

2006- present: Member of Iranian Nano-Technology Society

2000- Present: Member of Iranian Society of Surface Science & Technology

Books

1. Karimzadeh F., Ghassemali E., Salemizadeh S., “**Nanomaterials, Properties, Synthesis & Application**” JDIUT Publication, 2005, ISBN 964-6122-72-8.

2. M. Khodaei, M.H. Enayati and F. Karimzadeh, **Mechanochemically Synthesized Metallic-Ceramic Nanocomposite; Mechanisms and Properties**, Chapter 8 in “Advances in Nanocomposites - Synthesis, Characterization and Industrial Applications”, InTech Publication, 2011, ISBN 978-953-307-165-7, edited by Boreddy Reddy.

3. S. Ziaei-Rad, F. Karimzadeh, J. Kadkhodapour and M. Jafari, **Energy Dissipation Capacity in MWCNTs Reinforced Metal Matrix nanocomposites: An Overview of Experimental Procedure**, Chapter 33 in “Advances in Nanocomposites - Synthesis, Characterization and Industrial Applications”, InTech Publication, 2011, ISBN 978-953-307-165-7, edited by Boreddy Reddy

Registered Patents

1. “Fabrication of Nickel nanostructured 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-Al₂O₃ intermetallic nanocomposite by mechanochemical”, Patent No. 42455, Iranian Patent.
4. “Fabrication of FeNi-Al₂O₃ nanocomposite by mechanical alloying”, Patent No. 42454, Iranian Patent.
5. Synthesis of TiAl-Al₂O₃ 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 nanostructured Niobium – Aluminid compound by mechanical alloying”, Patent No. 52209, Iranian Patent.
10. Fabrication of nanostructured CK-45 Steel by mechanical alloying”, Patent No. 52208, Iranian Patent.
11. “Fabrication of nanostructured CuNiCoZnAl high entropy alloy produced by mechanical alloying and spark plasma sintering”, Patent No. 88199, Iranian Patent.

Research Fields

1. Triboelectric Nanogenerators (TENGs)
2. Photocatalysts
3. Nanobiosensors
4. Nanomotors
5. Nano effects on materials properties especially physical and thermodynamic properties
6. Synthesis, characterization and application of Nanomaterials (Nanostructured Materials, Nanocomposites, Nanoparticles) especially functional nanomaterials.
7. Joining of Nanostructured Materials
8. High Entropy alloys (HEAs)

ISI and ISC Journal Papers

- 1_ SALEHI M., KARIMZADEH F., TAHVILIAN A., "Formation of Ti-Ni intermetallic coatings on carbon tool steel by a duplex 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., "analysis Modeling considerations and material properties evaluation in 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/Al₂O₃ 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-TAHAMTAN S., GOLOZAR M., KARIMZADEH F., NIROUMAND B., "Microstructure and Tensile Properties of Thixoformed A356 Alloy", materials characterization, No. 59, PP. 223-228, 2008.
- 11_ KHODAIE M., ENAYATI M., KARIMZADEH F., "Mechanochemical behaviour of Fe₂O₃-Al-Fe powder mixtures to produce Fe₃Al-Al₂O₃ nanocomposite powder", journal of materials science, Vol. 43, PP. 132-138, 2008.

- 12_ 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.
- 13_ 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.
- 14_ MOUSAVI T., KARIMZADEH F., ABBASI M., "[Mechanochemical assisted synthesis of NiTi intermetallic based nanocomposite reinforced by Al₂O₃](#)", journal of alloys and compounds, No. 12, 2008.
- 15_ 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.
- 16_ MOUSAVI T., KARIMZADEH F., ABBASI M., ENAYATI M., "[Investigation of Ni nanocrystallization and the effect of Al₂O₃ addition by high-energy ball milling](#)", journal of materials processing technology, Vol. 204, PP. 125-129, 2008.
- 17_ 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.
- 18_ TAVOOSI M., KARIMZADEH F., ENAYATI M., HEIDARPOUR A., "[Bulk Al-Zn/Al₂O₃ nanocomposite prepared by reactive milling and hot pressing methods](#)", journal of alloys and compounds, 2008.
- 19_ 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.
- 20_ TAVOSI M., KARIMZADEH F., ENAYATI M., "[Fabrication of Al-Zn/a-Al₂O₃ nanocomposite by mechanical alloying](#)", materials letters, No. 62, PP. 282-285, 2008.
- 21_ HEIDARBEIGI M., KARIMZADEH F., SAATCHI A., "[Corrosion and galvanic coupling of heat treated Ti-6Al-4V alloy weldment](#)" Materials Letters, Vol. 62, No. 10, PP. 1575-1578, 2008.
- 22_ TAVOOSI M., KARIMZADEH F., ENAYATI M.H., "[Fabrication of Al-Zn/a-Al₂O₃ nanocomposite by mechanical alloying](#)", Materials Letters, VOL. 62, NO. 2, PP. 282-285, 2008.
- 23_ ANVARI S., KARIMZADEH F., ENAYATI M., "[Synthesis and Characterization of NiAl-Al₂O₃ nanocomposite powder by mechanical alloying](#)", journal of alloys and compounds, Vol. 477, PP. 178-181, 2009.
- 24_ JAFARI BAHRAMABADI M., ENAYATI M., ABBASI M., KARIMZADEH F., "[Thermal stability and structural changes during heat treatment of nanostructured Al₂O₃ alloy](#)", journal of alloys and compounds, Vol. 478, PP. 260-264, 2009.

- 25_ FOROUZANMEHR N., KARIMZADEH F., ENAYATI M., "[Study on solid state reactions of nanocrystalline TiAl synthesized by mechanical alloying](#)", journal of alloys and compounds , Nol.471, PP. 93-97, 2009.
- 26_ FOROUZANMEHR N., KARIMZADEH F., ENAYATI M., "[Synthesis and characterization of TiAl/a-Al₂O₃ nanocomposite by mechanical alloying](#) ", journal of alloys and compounds, Vol. 478, PP. 257-259, 2009.
- 27_ HEIDARPOUR A., KARIMZADEH F., ENAYATI M., "In-situ synthesis mechanism of Al₂O₃-Mo nanocomposite by ball milling process", journal of alloys and compounds, Vol. 477, PP. 692-695, 2009.
- 28_ 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.
- 29_ JALALY M., ENAYATI M., KAMELI P., KARIMZADEH F., "[Effect of composition on structural and magnetic properties of nanocrystalline ball milled Ni_{1-x}Zn_xFe₂O₄ ferrite](#)", physica b-condensed matter, Vol. 405, No. 2, PP. 507-512, 2010..
- 30_ 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, Vol. 24, No. 9, PP. 1067-1077, 2010.
- 31_ JALALY M., ENAYATI M., KARIMZADEH F., "[Investigation of structural and magnetic properties of nanocrystalline Ni_{0.3}Zn_{0.7}Fe₂O₄ prepared by high energy ball milling](#)", journal of alloys and compounds, Vol. 480, PP. 737-740, 2009.
- 32_ JALALY M., ENAYATI M., KARIMZADEH F., KAMELI P., "[Mechanosynthesis of nanostructured magnetic Ni-Zn ferrite](#)", powder technology, Vol. 193, PP. 150-153, 2009.
- 33_ KADKHODAPOUR J., ZEIAEIRAD S., KARIMZADEH F., "[Finite-element modeling of rate dependent mechanical properties in nanocrystalline materials](#)", computational materials science, Vol.45, PP 1113-1124 , 2009.
- 34_ KHODAIE M., ENAYATI M., KARIMZADEH F., "[Mechanochemically synthesized Fe₃Al-Al₂O₃ nanocomposite](#)", journal of alloys and compounds, Vol. 467, PP. 159-162, 2009.
- 35_ KHODAIE M., ENAYATI M., KARIMZADEH F., ", [The structure and mechanical properties of Fe₃Al-30 vol.% Al₂O₃ nanocomposite](#)", journal of alloys and compounds, Vol. 488, PP. 134-137, 2009.
- 36_ MOHAMMAD SHARIFI E., KARIMZADEH F., ENAYATI M., "[A study on mechanochemical behavior of B₂O₃-Al system to produce alumina-based nanocomposite](#)", journal of alloys and compounds, Vol. 482, PP. 110-113, 2009.
- 37_ 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.

- 38_ MOUSAVI T., ABBASI M., KARIMZADEH F., "[Thermodynamic analysis of NiTi formation by mechanical alloying](#)", materials letters, Vol. 63, PP. 786-788, 2009.
- 39_ RAFIEI M., ENAYATI M., KARIMZADEH F., "[Characterization and formation mechanism of nanocrystalline \(Fe,Ti\)3Al intermetallic compound prepared by mechanical alloying](#)", journal of alloys and compounds, Vol. 480, PP. 392-396, 2009.
- 40_ RAFIEI M., ENAYATI M., KARIMZADEH F., "[Mechanochemical synthesis of \(Fe,Ti\)3Al-Al2O3 nanocomposite](#)", journal of alloys and compounds , Vol. 488, PP. 144-147, 2009.
- 41_ HOSSEINI NOHOUI N., KARIMZADEH F., ABBASI M., ENAYATI M., "[Tribological properties of Al6061–Al2O3 nanocomposite prepared by milling and hot pressing](#)", materials & design, No. 31, PP. 4777-4785, 2010.
- 42_ MAZAHARI RODBALI Y., KARIMZADEH F., ENAYATI M., "[Nanoindentation study of Al356-Al2O3 nanocomposite prepared by ball milling](#)", Material Sciences and Applications, Vol. 1, PP. 217-222, 2010.
- 43_ TAVOSI M., KARIMZADEH F., ENAYATI M., "[Wear behavior of Al-Al2O3 nanocomposites prepared by mechanical alloying and hot pressing](#)", materials science and technology, Vol.26, No.9, PP.1114-1119, 2010.
- 44_ 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.
- 45_ JAFARI BAHRAMABADI M., ENAYATI M., ABBASI M., KARIMZADEH F., "[Compressive and wear behaviors of bulk nanostructured Al2024 alloy](#)", materials & design, Vol. 31, PP. 663-669, 2010.
- 46_ MOHAMMAD SHARIFI E., KARIMZADEH F., ENAYATI M., "[Mechanochemically synthesized Al2O3-TiC nanocomposite](#)", journal of alloys and compounds, Vol. 491, PP. 411-415, 2010.
- 47_ 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, Vol. 31, PP. 2643-2648, 2010.
- 48_ YAZDIAN N., KARIMZADEH F., TAVOSI M., "[Microstructural evolution of nanostructure Al7075 alloy during isothermal annealing](#)", journal of alloys and compounds , Vol. 493, PP. 137-141, 2010.
- 49_ 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.
- 50_ ZAHMATKESH B., ENAYATI M., KARIMZADEH F., "[Tribological and microstructural evaluation of friction stir processed Al2024 alloy](#)", materials & design, Vol. 31, No. 10, PP. 4891-4896, 2010.

- 51_ 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.
- 52_ MAHBOUBI SOUFIANI A., ENAYATI M., KARIMZADEH F., "[Mechanical alloying behavior of Ti6Al4V residual scraps with addition of Al₂O₃ to produce nanostructured powder](#)", materials & design, Vol. 31, PP. 3954-3959, 2010.
- 53_ YADOLLAH OUR 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.
- 54_ MOHAMMAD SHARIFI E., KARIMZADEH F., ENAYATI M., "[Synthesis of titanium diboride reinforced alumina matrix nanocomposite by mechanochemical reaction of Al-TiO₂-B₂O₃](#)", journal of alloys and compounds, No. 502, PP. 508-512, 2010.
- 55_ 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.
- 56_ SABOONI S., MOUSAVI T., KARIMZADEH F., "[Mechanochemical assisted synthesis of Cu\(Mo\)/Al₂O₃ nanocomposite](#)", journal of alloys and compounds, No. 497, PP. 95-99, 2010
- 57_ MOSTAAN H., ABBASI M., KARIMZADEH F., "[Mechanochemical assisted synthesis of Al₂O₃/Nb nanocomposite by mechanical alloying](#)", journal of alloys and compounds, No. 493, PP. 609-612, 2010.
- 58_ MOSTAAN H., KARIMZADEH F., ABBASI M., "[Investigation of in-situ synthesis of NbAl₃/Al₂O₃ nanocomposite by mechanical alloying and its formation mechanism](#)", journal of alloys and compounds, No. 503, PP. 294-298, 2010.
- 59_ MOSTAAN H., KARIMZADEH F., ABBASI M., "[Non-Isothermal kinetic studies on the formation of Al₂O₃/Nb composite](#)", Thermochemica Acta, Vol. 1 PP. 32-36, 2010.
- 60_ 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 , , Vol. 27, No. 6, PP. 990-995, 2011.
- 61_ 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, Vol. 25, PP. 265-275, 2011.
- 62-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, Vol.19,No. 1 , pp337-349, 2011.
- 63_ MOHAMMAD SHARIFI E., KARIMZADEH F., ENAYATI M., "[Mechanochemical assisted synthesis of B₄C nanoparticles](#)", advanced powder technology, Vol. 22, PP. 354-358, 2011

- 64_ MOHAMMAD SHARIFI E., KARIMZADEH F., ENAYATI M., "[Preparation of Al₂O₃-TiB₂ nanocomposite powder by mechanochemical reaction between Al, B₂O₃ and Ti](#)", ADVANCED POWDER TECHNOLOGY, Vol. 22, PP. 526-531, 2011.
- 65_ ENAYATI M., KARIMZADEH F., TAVOOSI M., MOVAHEDI B., TAHVILIAN A., "[Nanocrystalline NiAl coating prepared by HVOF thermal spraying](#)", journal of thermal spray technology, Vol. 20, PP. 440-446, 2011.
- 66_ HEIDARPOUR A., KARIMZADEH F., ENAYATI M., "[Fabrication and characterisation of bulk Al₂O₃/Mo nanocomposite by mechanical milling and sintering](#)", POWDER METALLURGY, Vol. 54, No. 1, PP. 513-517, 2011.
- 67_ TAVOOSI M., ENAYATI M., KARIMZADEH F., "[Crystallization process of Al₈₀Fe₁₀Ti₁₀ amorphous phase](#)", POWDER METALLURGY, Vol. 54, PP. 445-449, 2011.
- 68_ TAVOOSI M., ENAYATI M., KARIMZADEH F., "[Formation and crystallization of an amorphous Al₈₀Fe₁₀Ti₅Ni₃B₂ alloy](#)", METALS AND MATERIALS INTERNATIONAL, Vol. 17, No. 5, PP. 853-856, 2011.
- 69_ TAVOOSI M., KARIMZADEH F., ENAYATI M., JOO S., KIM H., "[Amorphous phase formation in Al₈₀Fe₁₀M₁₀ \(M = Ni, Ti, and V\) ternary systems by mechanical alloying](#)", JOURNAL OF MATERIALS SCIENCE, Vol. 46, PP. 7633-7638, 2011.
- 70_ AZADEHRANJBAR S., KARIMZADEH F., ENAYATI M., "[Synthesis and characterization of nanocrystalline FeNi and Ni₃Fe alloys](#)", INTERNATIONAL JOURNAL OF MODERN PHYSICS B, Vol. 25, PP. 1013-1019, 2011.
- 71_ HOSEINI S.N., KARIMZADEH F., ENAYATI M., "[Mechanochemical synthesis of Al₂O₃/Co nanocomposite by aluminothermic reaction](#)", ADVANCED POWDER TECHNOLOGY , 2011.
- 72_ AZADEHRANJBAR S., KARIMZADEH F., ENAYATI M., "[Development of NiFe-CNT and Ni₃Fe-CNT nanocomposites by mechanical alloying](#)", ADVANCED POWDER TECHNOLOGY , 2011.
- 73_ MAZAHERI RODBALI Y., KARIMZADEH F., ENAYATI M., "[A novel technique for development of A356/Al₂O₃ surface nanocomposite by friction stir processing](#)", JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, Vol. 211, PP. 1614-1619, 2011.
- 74_ MOHAMMAD SHARIFI E., KARIMZADEH F., "[Wear behavior of aluminum matrix hybrid nanocomposites fabricated by powder metallurgy](#)", WEAR, Vol. 271, PP. 1072-1079, 2011.
- 75_ MOSHTAGHIUN B., MONSHI A., ABBASI M., KARIMZADEH F., "[A study on the effects of silica particle size and milling time on synthesis of silicon carbide nano particles by carbothermic reduction](#)", INTERNATIONAL JOURNAL OF REFRACTORY METALS & HARD MATERIALS, Vol. 29, PP. 645-650, 2011.
- 76_ FOROOZMEHR, A., ENAYATI, M.H. AND KARIMZADEH, F., "[Austenite-Martensite transformation in nanostructured AISI316L stainless steel powder induced during mechanical millig](#)", Journal of Materials Science and Engineering with Advanced Technology, Vol. 4, PP. 93-105, 2011.

- 77_SHARIFI, E.M., KARIMZADEH, F. AND ENAYATI, M.H., "Fabrication and evaluation of mechanical and tribological properties of boron carbide reinforced aluminum matrix nanocomposites", Materials & Design, Vol. 32, No. 6, PP.3263-3271, 2011.
- 78_ADABAVAZEH Z., KARIMZADEH F., ENAYATI M., "Formation mechanism of nanostructured (Ni, Fe)₃Al-Al₂O₃ nanocomposite and its characterization", MATERIALS AND MANUFACTURING PROCESSES, Vol. 27, PP. 626-630, 2012.
- 79_ADABAVAZEH Z., KARIMZADEH F., ENAYATI M., "Mechanochemical behaviour of NiO-Al-Fe powder mixtures to produce (Ni, Fe)₃Al-Al₂O₃ nanocomposite powder", METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, Vol. 43, PP. 3359-3365, 2012.
- 80_ADABAVAZEH Z., KARIMZADEH F., ENAYATI M., "Synthesis and structural characterization of nanocrystalline (Ni, Fe)₃Al intermetallic compound prepared by mechanical alloying", ADVANCED POWDER TECHNOLOGY, Vol. 23, PP. 284-289, 2012.
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