Curriculum Vitae

NAME & SURNAME: Khalilollah Gheisari

DATE OF BIRTH: 1979-11-03

ADDRESS, SUBURB, STATE, POSTAL CODE: Department of Materials Science and Engineering, Faculty of Engineering, Shahid Chamran University, Ahvaz, Iran.

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PROFESSIONAL PROFILE:

Associate Professor of Materials Science and Engineering in Shahid Chamran University (SCU) of Ahvaz

EDUCATION BACKGROUND:

Ph.D., Materials Science & Engineering, Shiraz university, Shiraz, Iran, 2008

Thesis Title: "Magnetic Properties of Composite Containing nanostructured Permalloy and Ni-Zn Ferrite Powders"**,** Thesis Adviser: Prof. S. Javadpour

M.Sc., Materials Science & Engineering, Shiraz university, Shiraz, Iran, 2004

Dissertation Title: "Failure Analysis of the Welded Joints on a Power Plant Exhaust Wall"**,** Thesis Adviser: Prof. S. A. Jenabali Jahromi, Dr. S. Javadpour

B.Sc., Materials Science & Engineering, Amirkabir University of Technology, Tehran, Iran, 2002

Project: "Effect of Tempering Temperature on Structure and Mechanical Properties of QC 60 Tool steel"**,** Thesis Adviser: Prof. M. Mosavi Khoei

Curriculum Vitae

TEACHING AND TRAINING EXPERINCE:

Department of Materials Science and Engineering, Shiraz University (2003-2007):

- Welding metallurgy laboratory
- Metal casting laboratory

Department of Materials Science and Engineering, Shahid Chamran University (2009-present)

Undergraduate Courses:

- Crystallography
- Phase transformation in metals and alloys
- Materials characterization
- Heat treatment laboratory
- Mechanical properties laboratory
- Manufacturing processing

Graduate Courses:

- Materials characterization and laboratory
- Phase Transformation
- Electron Theory
- Special Topics (electrochemical corrosion testing)
- Solid state physics

HONOURS AND AWARDS:

- Recipient of Ministry of Culture and Higher Education (MCHE) scholarship for PhD studies through a national qualifying examination, Iran, (2004-2008).
- The first-best student grade point at M.Sc. Degree (2004).
- Teaching assistant awards, Shiraz University, (2003-2007).
- Iranian nano institute award for ISI publications (2009-2017).

INTERESTS AND RESEARCH FIELDS:

- Conventional and nanostructured magnetic materials (magnetic alloys and ceramics)
- Advanced materials
- Synthesis methods (mechanical alloying, combustion methods, microwave synthesis method and solid state reaction method)
- Materials characterization (X-ray diffraction-XRD, scanning electron microscopy-SEM, transmission electron microscopy-TEM,…)

RESEARCH ACTIVITIES:

PUBLICATIONS:

1. S.A. Jenabali Jahromi, S. Javadpour, Kh. Gheisari, "Failure analysis of welded joints in a power plant exhaust flue", Engineering Failure Analysis 13 (2006) 527–536.
2. Kh. Gheisari, S. Javadpour, H. Shokrollahi, B. Hashemi, "Magnetic losses of the soft magnetic composites consisting of iron and Ni–Zn ferrite", Journal of Magnetism and Magnetic Materials 320 (2008) 1544–1548.
3. Kh. Gheisari, S. Javadpour, J.T. Oh, M. Ghaffari, "The effect of milling speed on the structural properties of mechanically alloyed Fe–45%Ni powders", Journal of Alloys and Compounds 472 (2009).
4. K.S. Choo, Kh. Gheisari, J.T. Oh, S. Javadpour, "Structure and magnetic properties of nanostructured Ni0.77Fe0.16Cu0.05Cr0.02 (Mumetal) powders prepared by mechanical alloying", Materials Science and Engineering B 157 (2009) 53–57.
5. A. Taghvaei, A. Ebrahimi, Kh. Gheisari, K. Janghorban, "Analysis of the magnetic losses in iron-based soft magnetic composites with MgO insulation produced by sol–gel method", Journal of Magnetism and Magnetic Materials 322 (2010) 3748–3754.
6. Kh. Gheisari, J.T. Oh, S. Javadpour, "The effect of heat treatment on the structure and magnetic properties of mechanically alloyed Fe–45%Ni nanostructured powders", Journal of Alloys and Compounds 509 (2011) 1020–1024.
7. M. Reihanian, S.R. Asadullahpour, S. Hajarpour, Kh. Gheisari, "Application of neural network and genetic algorithm to powder metallurgy of pure iron", Materials and Design 32 (2011) 3183–3188.
8. H. Mohseni, H. Shokrollahi, I.Sharifi, Kh. Gheisari, "Magnetic and structural studies of the Mn-doped Mg–Zn ferrite nanoparticles synthesized by the glycine nitrate process", Journal of Magnetism and Magnetic Materials 324 (2012) 3741–3747.
9. S. Hajarpour, Kh. Gheisari, A. Honarbakhsh Raouf, "Characterization of nanocrystalline Mg0.6Zn0.4Fe2O4 soft ferrites synthesized by glycine-nitrate combustion process", Journal of Magnetism and Magnetic Materials 329 (2013) 165–169.
10. K. Gheisari, S.D. Bhame, J.T. Oh, S. Javadpour, "Comparative Studies on the Structure and Magnetic Properties of Ni–Zn Ferrite Powders Prepared by Glycine-Nitrate Auto-combustion Process and Solid State Reaction Method", J Supercond Nov Magn 26 (2013) 477–483.
11. Kh. Gheisari, Sh. Shahriari, S. Javadpour, "Structure and magnetic properties of ball-mill prepared nanocrystalline Ni–Zn ferrite powders at elevated temperatures", Journal of Alloys and Compounds 552 (2013) 146–151.
12. Kh. Gheisari, Sh. Shahriari, S. Javadpour, "Structural evolution and magnetic properties of nanocrystalline 50 Permalloy powders prepared by mechanical alloying", Journal of Alloys and Compounds 574 (2013) 71–82.
13. Kh. Gheisari, Sh. Shahriari, A. Rezvanpour , S. Javadpour, "Structure and magnetic properties of nanocrystalline Ni0.64Zn0.36Fe2O4 powders prepared by ball milling", Powder Metallurgy 56-3 (2013) 216-220.
14. Kh. Gheisari, S. Javadpour, "The effect of process control agent on the structure and magnetic properties of nanocrystalline mechanically alloyed Fe-45%Ni powders", Journal of Magnetism and Magnetic Materials 343 (2013) 133–137.
15. Hamed Bahiraei, Morteza Zargar Shoushtari, Khalil Gheisari, C.K. Ong, "The effect of sintering temperature on the electromagnetic properties of nanocrystalline MgCuZn ferrite prepared by sol–gel auto combustion method", Materials Letters 122 (2014) 129–132.
16. S. Hajarpour, A. Honarbakhsh Raouf, Kh. Gheisari, "Structural evolution and magnetic properties of nanocrystalline magnesium–zinc soft ferrites synthesized by glycine–nitrate

combustion process", Journal of Magnetism and Magnetic Materials 363 (2014) 21–25.

17. N. Borhan, Kh. Gheisari, "Structural and Magnetic Properties of Nanocrystalline Lithium-Zinc Ferrite synthesized by Microwave Induced Glycine-Nitrate Process", Journal of Superconductivity and Novel Magnetism 27 (2014) 1483-1490.
18. M. Roshani, M. Reihanian, Kh. Gheisari, M.R. Saffarian, "Evaluation of sensitization in gas tungsten arc welded AISI 304 stainless steel, Iranian Journal of Science and Technology 38 (2014) 207-215.
19. A.R. Mohammadian, , S. Hajarpour, Kh. Gheisari, M. Farbod, "Synthesis of Ni–Mn ferrite–chromite nanoparticles through plasma arc discharge", Materials Letters 133 (2014) 91–93.
20. Hamed Bahiraei, Morteza Zargar Shoushtari, Khalil Gheisari, C.K. Ong, "The effect of non-magnetic Al 3+ ions on the structure and electromagnetic properties of MgCuZn ferrite", Journal of Magnetism and Magnetic Materials 371 (2014) 29–34.
21. N. Borhan, Kh. Gheisari, M. Zargar Shoushtari "Dielectric Properties of Nanocrystalline Zn-Doped Lithium Ferrites Synthesized by Microwave-Induced Glycine–Nitrate Process", Journal of Superconductivity and Novel Magnetism, 29 (2016) 145–151.
22. F. Daneshvar, M. Reihanian, Kh. Gheisari, "Al-based magnetic composites produced by accumulative rollbonding (ARB)", Materials Science and Engineering B 206 (2016) 45–54.
23. Z. Maleknejad, Kh. Gheisari, A. Honarbakhsh Raouf , "Structure, Microstructure, Magnetic, Electromagnetic and Dielectric Properties of Nanostructured Mn–Zn Ferrite Synthesized by Microwave-Induced Urea–Nitrate Process", Journal of Superconductivity and Novel Magnetism, (2016) 29:2523–2534.
24. A. Safari, Kh. Gheisaria, M. Farbod, "Characterization of Ni ferrites powders prepared by plasma arc discharge process", Journal of Magnetism and Magnetic Materials, 421(2017) 44–51.
25. R. Joodaki, S.R. Alavi Zaree, Kh. Gheisari, M. Eskandari, Effect of annealing treatments on the microstructure and texture development in API 5L X60 microalloyed pipeline steel, Journal of Materials Engineering and Performance, 26, (2017) 2003–2013.
26. S. Rastgarnia , Kh. Ranjbar , Kh. Gheisari , Gh. H. Borhani, "Synthesis and characterization of mechanically alloyed cerium oxide reinforced Al-4.5 Mg alloy composite", International Journal of Materials Research,108-12(2017) 1081-1089.
27. S. Tanhaei, Kh. Gheisari, S.R. Alavi Zaree, "The Effect of Cold Rolling on the Microstructural, Magnetic, Mechanical and Corrosion Properties of AISI 316L Austenitic Stainless Steel", International Journal of Minerals, Metallurgy and Materials , 6 (2018), 630-640.
28. Sh. Yazdizadeh, M. Zargar Shoushtari, Kh. Gheisari, "Structure and Magnetic Properties of Ni0.77Fe0.16Cu0.05Cr0.02 Doped with Co, "Iranian Journal of Science and Technology", 4 (2018), 2365-2373.
29. Z. Shahriyari, Kh. Gheisari, "Galvanic corrosion susceptibility between X53CrMnNiN219 and X45CrSi93 stainless steels in chloride solution using electrochemical measurements", Anti-Corrosion Methods and Materials, 65(6) (2018), 668-674.
30. F. Alijani, M. Reihanian, Kh. Gheisari, Novel FeCoNiMnV high entropy alloy as a soft magnetic material produced by ball milling, Journal of Alloys and Compounds, 773 (2019) 623-630.
31. Z. Shahriyari, Kh. Gheisari, H. Motamedi, " Corrosion Behavior of API X70 Microalloyed Pipeline Steel in a Simulated Soil Solution in the Absence and Presence of Aerobic Pseudomonas Species", Materials Research Express, 6 (2019), 065409.

32. A. Safari, Kh. Gheisaria, M. Farbod, "Structural, microstructural, magnetic and dielectric properties of Ni-Zn ferrite powders synthesized by plasma arc discharge process followed by post-annealing", Journal of Magnetism and Magnetic Materials, 488 (2019) 165369.
33. N.Jahani, M. Reihanian, Kh. Gheisari, "Kinetics of recrystallization and microstructure distribution during isothermal annealing of cold rolled nickel", Materials Research Express, 6 (2019), 096504.
34. Z. Shahriyari, Kh. Gheisari, H. Motamedi, "Effect of sulfate reducing Citrobacter sp. strain on the corrosion behavior of API X70 microalloyed pipeline steel", Materials Chemistry and Physics, 236 (2019) 121799.
35. R. Baladi, Kh. Gheisari, Structural, magnetic and dielectric properties of nanocrystalline My/2Fe3-(y/2)O4 (M=Li and Mg) ferrites synthesized via EDTA/EG assisted sol-gel method, Transactions of the Indian Ceramic, 78, (4) (2019) 195-203
36. M. Mohammadrezaee Larki, Kh. Gheisari, Effect of Fuel Composition and Concentration on Dielectric Properties of Bismuth Titanate (Bi4Ti3O12) Synthesized by Microwave-Induced Combustion Method, Materials Research Express, 6 (2019) 126317.
37. S. A. Hosseini, K. Gheisari, H. Moshayedi, F. Warchomicka and N. Enzinger, Basic alloy development of low-transformation-temperature fillers for AISI 410 martensitic stainless steel, Science and Technology of Welding and Joining, 2020, 25 (3), 243-250.
38. F. Alijani, Mohsen Reihanian, Kh. Gheisari, M. Yuasa, and H. Miyamoto, Microstructural Characterization of Mechanically Alloyed FeCoNiMnV High Entropy Alloy Consolidated by Spark Plasma Sintering, Advanced Engineering Materials, 2020, 22, 1901311.
39. Kh. Gheisari, and C. K. Ong. "Magnetic properties and thermal stability of nanocrystalline Fe films prepared by oblique sputtering deposition method" Physica B: Condensed Matter, vol. 595, pp 412365 (1-7), 2020.
40. F. Alijani, Mohsen Reihanian, Kh. Gheisari, and H. Miyamoto, "Microstructure and high-temperature deformation behavior of FeCoNiMnV high entropy alloy", Materials Chemistry and Physics 256 (2020) 123675
41. H.B Rizi, K Gheisari, H Motamedi, M Pereira, M Shirinbayan, Investigation of magnetic composites using as photocatalyst and antibacterial application, 2020, 119, 1-12.
42. Kh. Gheisari, and C. K. Ong. "Enhancing high-frequency properties of nanocrystalline sputtered Fe thin films by using MnIr underlayer and oblique deposition", Journal of Superconductivity and Novel Magnetism", 2021, 34, 1-5.
43. S. A. Hosseini, K. Gheisari, H. Moshayedi, M. R. Ahmadi, F. Warchomicka and N. Enzinger, Assessment of the chemical composition of LTT fillers on residual stresses, microstructure, and mechanical properties of 410 AISI welded joints, Welding in the World, 2021, https://doi.org/10.1007/s40194-020-01064-1.
44. M.Kooti, A. Naghdi Sedeh, Kh. Gheisari, A.Figuerola, Synthesis, characterization, and performance of nanocomposites containing reduced graphene oxide, polyaniline, and cobalt ferrite, Physica B: Condensed Matter, In press.
45. Z Shahryari, M Yeganeh, K Gheisari, B Ramezanzadeh, A brief review of the graphene oxide-based polymer nanocomposite coatings: preparation, characterization, and properties, Journal of Coatings Technology and Research, 2021, In press.

PROFESSIONAL MEMBERSHIPS:

- Reviewing Activities for Journals

- Journal of Alloys and Compounds
- Materials Science and Engineering B
- Materials Science and Engineering A
- Journal of American Ceramic Society
- Journal of Nanoparticle Research
- Powder Technology
- Journal of Magnetism and Magnetic Materials

LANGUAGES:

PERSIAN: Native
ENGLISH: Advanced