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Nafiseh Mahmoudi

Education

[1999-2003] High School in National Organization for Development of Exceptional Talents. Tehran, Iran

High School

♣ GPA: 19.7 /20

[2003-2007] Sharif University of Technology Tehran, Iran

Bachelor of Science degree

- Materials Science Engineering , Industrial Metallurgy

Thesis title:

"Synthesis of multi wall carbon nanotube(MWCNT) by Electrical arc-discharge", Supervised by Dr. F.Khomamizadeh

♣ GPA: 16.25/20

[2007 to 2009] Sharif University of Technology Tehran, Iran

Master of Science degree

- Selection and Characterization of Materials

Thesis Title:

"Investigation hydrogen properties of nano-composite MgH_2-$TiCr_{1.2}Fe_{0.6}$ Nano crystalline synthesized by Mechanical alloying and Vacuum Arc Re-melting (VAR)", Supervised by Dr. A. Simchi

♣ GPA: 17.5/20

[2011-till now] Sharif University of Technology Tehran, Iran

PhD Student in Material Science and Engineering

6rd Semester GPA: 18.20 / 20

Thesis Title:

"Synthesized and charectristic of mechanical propertiese and cell viability of temporary skin Nano composite grafts based on chitosan- nano layer of

graphene oxide – polyvinyl pyrrolidone by electro-spining"
Supervised by Dr. A. Simchi

Professional experience

[Summer of 2006] Razi Metallurgical Research Center Tehran, Iran

researcher

- Classifying common standards for mechanical tests of alloys and convert them into flowcharts that can be used for computer soft wares.
- Studying characteristics of steels
- SEM Lab. Assistant
- Aradmana Co.: as a Material Selection Engineer in constructing of gas pipe

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Patents and publications

- "Hydrogen desorption properties of MgH_2-$TiCr_{1.2}Fe_{0.6}$ Nano composite prepared by high energy mechanical alloying", was Published in Journal of Power Sources, Volume 196, Issue 10, 15 May 2011 with IF: 4.23
- "Synthesis of a nanostructured MgH2–Ti alloy composite for hydrogen storage via combined vacuum arc remelting and mechanical alloying" was published in "Materials Letters", Volume 65, Issue 7, 15 April 2011 with IF: 2.117
- "constructing core molds for resin sand mixture by microwave" was published in Scientific community of casting 2007 in Persian language, Tehran University Iran, Tehran
- "Recent activities in science and technology and the progress of women in physics in the last three years in Iran" women in physics: 4th IUPAP International Conference on Women in Physics ,5–8 April 2011 ,Stellenbosch, South Africa

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Scientific Conferences and Seminars

- PM2010 conference in Italy, Florence 10th-14th October 2010 <u>oral presentation</u> of "Hydrogen desorption properties of MgH2-5 at% TiCr1.2Fe0.6 Nano composite prepared by high energy mechanical alloying"
- "Investigation hydrogen properties of Nano-composite MgH_2-$TiCr_{1.2}Fe_{0.6}$ Nano crystalline synthesized by Mechanical alloying and Vacuum Arc Re-melting (VAR)", 7th Student Seminar of Nano Technologies in Technical Dept. of Tarbiat Modares University, May, 2010
- "Investigation hydrogen properties of Nano-composite MgH_2-$TiCr_{1.2}Fe_{0.6}$ Nano crystalline synthesized by Mechanical alloying and Vacuum Arc Re-melting (VAR) in fuel cell for hydrogen storage", 2nd national conference of Fuel, Energy and Environment in Kermanshah University ,April, 2010
- Participating in Iran Materials and Metallurgical Engineering scientific-student conference, October, 2006, Elm va Sanat University

- "Cryogenic treatment in aluminum alloys" in Surface engineering & Heat treatment conference April, 2007, Esfahan University of Technology

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Additional professional activities

- Scientific Supervisor of Iranian team in Int. Junior Scientific Olympia(IJSO) -Abuja Nigeria-2nd-11th December 2010
- Scientific Supervisor of Iranian team in Int. Junior Scientific Olympia(IJSO) –Durban South Africa- December 2011
- Teacher assistant of "Mechanical PropertiesI", Supervised by Prof. S. M. Seyyedreyhani [2011-2013]
- Teacher assistant of "Mechanical PropertiesII", Supervised by Prof. R.Bagheri [2011]
- Teacher assistant of "Material Science and Engineering", Supervised by Prof. A.Simchi and Prof. H. Maddah Hoseini [2012,2013]
- Research Assistant of Raheroshd & Tazkieh Education Complex [2007-2012]
- Consultant course selection of Nation. Entrance exam of Universities in Amir Kabir University of Technology [2009]
- Physic teacher in Raheroshd Education Complex [2009-2012]

Professional memberships

- Scientific community of casting [2005 to present]
- Iranian's Nanotechnology Community [2006 to present]
- Iran Metallurgical Engineering Society [2008 to present]

Languages Persian, English

Community activities

- Editor in Chief of Material Science and Engineering Dept. Magazine (Name: Segregation) [2004]
- Editor in Chief of Material Science and Engineering Dept. interior Magazine (Name: Daily Metallurgy's Student) [2007]
- Editor in Chief of National & International Tourism. Community Magazine of Sharif University of Technology [2005]
- Responsible for scientific visits of industrials companies [2004 to 2005]
- Member of scientific student community of material science department in

	Sharif university [2005 to 2007] • constant member of students community of Culture and Literature of Sharif university [from 2004 to 2006]
Objective	Study and Research
Extracurricular activities	Researches about: • Nano Powder, Bio Materials
Hobbies	Playing badminton, Reading Books and swimming
Interests and activities	Composites & Nanocomposites, Nanopowders and their manufacturing processes, Hydrogen Storage Materials, Nano and Advanced materials, Bio Materials, Soft tissue
Volunteer experience	• Participation in implementing of 5th annual heat treatment competition [Sharif University of Technology, summer of 2007] • Member of executive board of sport Olympia of National Organization for Exceptional Talent [summer of 2005]
Skills	• Complete familiarity with English Language contains Speaking, Writing and reading • Graduated in TOEFL course in Language Institute • Graduated in TOLIMO(The Test of Language by the Iranian Measurement Organization) Course: Grade:513/600 and Writing Grade: 4.5/6 • ICDL, Origin, Photoshop • Programming Languages: Delphi & Pascal • Familiar with Fundamental of Value Engineering
Certificates	• Certificates of Participation in Educational Workshop of “oral presentation” on 7th Nano Technology Student Seminar in Tarbiate Modarres University [June 2010] • Certificates of Participation in Educational Workshop of “Business Plan” on 7th Nano Technology Student Seminal in Tarbiatemodarres University [June 2010] • Certificates of Participation in Educational Workshop of “Essay” on

7th Nano Technology Student Seminal in Tarbiatemodarres University [June 2010]

Awards & Honors

- Earning 5th rank in Master Degree Entrance Exam, Nanotechnology Trend [2007]
- Earning 10th rank in Master Degree Entrance Exam, Material Science Trend [2007]
- Archiving Privileged place in the field of gathering information on physics conferences: The paper missiles [July 2001]
- Roozbeh nominated on Student Physic Conference: the Paper pinwheels [September, 2002] in Tarbiate Moallem University
- Being appreciated for presenting in Workshop of Familiarity with Industrial Processes of Surface Engineering, 6th material science and metallurgy engineering scientific-student seminar in Elm-va-Sanat University [November 2006]

Admitted to CETS[1] (Center of Exceptional Talents at Sharif university of Technology) to go directly To PhD level as a 1th rank.

- Earning second place of Badminton Championships in Sharif University.

[1] Members of Center of Exceptional Talents can go directly (without graduate exam) to the PhD level of their field