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3129

Supervised PhD Theses

#	Thesis title	By	Date
1	Changing the Surface Chemistry with complex hamostructured layer (S/B/C/N) using plasma electrolysis	Hossein Tavakoli & Pirooz Marashi	June 2014

Supervised MSc Theses

#	Thesis title	By	Date
1	Synthesis and characterization of microstructure and electrochemical properties of ceria based cathode in low temperature SOFC	Maryam Haghani & Pirooz Marashi	March 2022
2	Evaluation of the microstructure and tribological behaviour of stellite 6 coating produced by GTAW process	Seyyedali Seyyedi & Pirooz Marashi	September 2021
3	Synthesis of MoS ₂ -Graphene nanocomposite and investigation on its Photocatalyst Properties	Mohadeseh Poudine & Pirooz Marashi	March 2021
4	Synthesis and characterization of hybrid graphene oxide-MOF for adsorption of methane gas	Vahid Kamrani Pouya & Pirooz Marashi	September 2020
5	Synthesis and immobilization of silver nanoparticles on polydimethylsiloxane (PDXS) substrate	Ghazaleh Lashgari & Pirooz Marashi	July 2019
6	Investigation on microstructural and electrochemical properties of Ni(OH) ₂ -YSZ, Ni(OH) ₂ -YSZ-rGO and NiO-YSZ nanocomposite coatings using electrophoretic deposition	Delaram Salehzadeh & Pirooz Marashi	February 2019

7	Study on the effect of Repair Welding on microstructure and Mechanical Properties of 30ChN2MA Steel.	Reza Zarei & Pirooz Marashi	September 2018
8	effect of radiation on the order of nanopores formed by the anodizing method	Zahra Ghaemi & Pirooz Marashi	February 2018
9	Failure analysis of ethoxylate reactors coils of and proposing a solution for the problem	Sadegh Borjali & Pirooz Marashi	July 2017
10	Investigation of the effect of preheat, diameter and type of electrode on the microstructure and mechanical properties of SMAW welded X70 pipeline	Masoud Bastani & Pirooz Marashi	February 2017
11	Fabrication and charecterization of nano-fiber Polycaprolactone scaffold by using CNT for application in neural tissue engineering	Farnaz Ghonjizadehsamani & Pirooz Marashi	September 2016
12	Investigation of the weld nugget growth and mechanical behavior of resistance spot welds	Hassan Eizadi & Pirooz Marashi	March 2016
13	Cu-Ag Bimetallic nanoparticles synthesis synthesis by Polyol method	Yasaman Niknafs & Pirooz Marashi	January 2016
14	Improvement of ordering by irradiation methods in fabrication of nano-wires	Mohsen Rezaei Shahmirzadi & Pirooz Marashi	December 2015
15	Synthesis of Ag-Cu one dimensional structures by Polyol method	Maral Afshar & Pirooz Marashi	November 2015
16	molecular dynamic simulation of mechanical properties of ZnO nanowire	Shima Ghaemi & Pirooz Marashi	January 2015
17	synthesis of ZnO nanowire/nanorod by wet chemical method	Mahshid Poornajar & Pirooz Marashi	December 2014
18	Friction Stir Spot Welding of Advance High Strength Steels (AHSS	Omid Abedini & Pirooz Marashi	October 2014
19	molecular dynamic simulation of heat distribution and sttee on nanoscale linear friction welding between Ni-Al	Sayyed Mohammad Yousef Taheri & Pirooz Marashi	October 2014
20	Study of the effective parameters on the synthesis of Copper Nanowires by wet chemical method	Maryam Sadat Hosseini & Pirooz Marashi	October 2013
21	Microstructure and mechanical properties of Magnesium alloy AZ31/ZrO2 surface nanocomposite produced by Friction Stir Processing (FSP	Abbas Rashvand & Pirooz Marashi	October 2013
22	Investigation of Metallurgical and Mechanical Characteristics of Resistance Spot Welds of Stainless Steels	Masoud Alizadeh Shamsabadi & Pirooz Marashi	October 2013
23	Study the effect of isometric specification and heat treatment on piezoelectric property of ZnO nanowires	Nooshin Sadat Ayati & Pirooz Marashi	February 2013
24	investigation of electrochemical parameters on electrodeposition of ZnO nanowires	Elahe Akbari & Pirooz Marashi	February 2013
25	Synthesize of Zirconium conductive ceramic membrane with NASICON nanostructure	Faezeh Ejehei & Pirooz Marashi	January 2012
26	Separation of lithium ions by electrodialysis using NASICON nanostructure	Sima Arefi & Pirooz Marashi	October 2011
27	Microstructure and Failure Behavior of Similar and Dissimilar Resistance Spot Welds of Martensitic Advanced High Strength Steels	Dorsasadat Safanama & Pirooz Marashi	July 2011

28	Fabrication and	Elmira Shafiee & Pirooz Marashi	January 2011
29	properties	Pegah Emamgholyzadeh Sayyar & Pirooz Marashi	January 2011
30	fabrication	Shima Montazeri Namin & Pirooz Marashi	January 2011
31	investigation and manufacturing of ceramic ion exchange membrane for electro dialysis process	Mohammad Reza Ghaani & Pirooz Marashi	January 2010
32	Astudy on the structure , mechanical strength and failure behavior of laser spot welds of carbon steel sheets	Maryam Masoumi & Pirooz Marashi	January 2010
33	investigation of the influence of PH and temperature on the magnetic properties of Fe-Co nanowires	Mina Salehi & Pirooz Marashi	November 2009
34	The effects of austempering temperature and time , and quenching temperature on the structure and mechanical properties of austempered ductile irons (ADI	Kajal Sohrabi & Pirooz Marashi	February 2009
35	Production of Porous Alumina Membrane and Synthesis of alloyed Fe-Co nanowires by Electroplating Method by Means of Taguchi Approach	Mohsen Arab & Pirooz Marashi	February 2009
36	PREPARATION OF MEMBRANE AND FABRICATION OF METAL NANOWIRE BY ELECTRODEPOSITION PROCESS	Younes Etemad & Pirooz Marashi	April 2008
37	ALLOY MAKING AND PRESSURE DIE CASTING OF ALUMINUM ALLOY A242.2	Vahid Ashofteh & Pirooz Marashi	December 2007
38	COMPARISON OF DIFFERENT XRD METHODS, TEM AND AFM FOR MEASURING ALUMINA NANO POWEDERS	Narges Asadpoor Chalo & Pirooz Marashi	September 2007

Books

#	Title	Author(s)	Publisher country	publication date	version
Portal Records					
1	mechanical behavior of materials	Jamshid Aghazadeh Mohandesi, Pirooz Marashi, Masih Rezaee	Iran (Islamic Republic of)	September 2012	1
2	mechanical behavior of materials	Jamshid Aghazadeh Mohandesi, Pirooz Marashi, Masih Rezaee	Iran (Islamic Republic of)	October 2012	1
3	Mechanical Properties of Nanomaterials	Jamshid Aghazadeh Mohandesi, Pirooz Marashi, Masih Rezaee	Iran (Islamic Republic of)	May 2009	1
4	Fundamentals and Applications of Electron Microscopes and Analysis Methods as Nano World Investigation Tools (second edition)	Pirooz Marashi, Saeed Kaviani, Hossein Sarpoolaky, Alireza Zolfaghari	Iran (Islamic Republic of)	March 2010	2

5	Nanocrystals: Synthesis, Properties and Applications	Pirooz Marashi, Amirmostafa Amirjani, Davoud Haghshenas	Iran (Islamic Republic of)	December 2014	1
6	Physics and Chemistry of Interfaces	Alireza Zolfaghari, Pirooz Marashi, Davoud Haghshenas Fatmehsari	Iran (Islamic Republic of)	December 2010	1
7	Fundamentals of Metals Casting	[en-name N/A], Pirooz Marashi, Masih Rezaee, [en-name N/A]	Iran (Islamic Republic of)	December 2008	1
8	Fundamentals and Applications of Electron Microscopes and Analysis Methods as Nano World Investigation Tools (second edition)	Pirooz Marashi, [en-name N/A], [en-name N/A], Alireza Zolfaghary	Iran (Islamic Republic of)	December 2004	1
9	Crystallography in Materials Engineering	Pirooz Marashi, Majid Pouranvari, Masih Rezaie, Dorsasadat Safanama	Iran (Islamic Republic of)	August 2020	1

Journal Papers

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- Hossein Alinaghian, Ali Farzadi, Pirooz Marashi, Majid Pouranvari, "Wide Gap Brazing of Inconel 738LC Nickel-Based Superalloy: Metallurgical and Mechanical Characteristics", METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, December 2020 Vol. 51, Num. 12, Page 6283-6293, December 2020,
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- Hossein Alinaghian, Pirooz Marashi, Ali Farzadi, Majid Pouranvari, "Microstructure and mechanical properties of Inconel 738LC joint by wide gap brazing using Amdry 718", , December 2020 Vol. 52, Num. 10, Page 1-10, December 2020,
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- Delaram Salehzadeh, Morteza Torabi, Zahra Sadeghian, Pirooz Marashi, "A multiscale-architecture solid oxide fuel cell fabricated by electrophoretic deposition technique", JOURNAL OF ALLOYS AND COMPOUNDS, July 2020 Vol. 830, Num. 4, Page 1-10, July 2020,
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Conference Papers

Portal Records

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Taught Courses

#	Course title	Description	Headlines	Date
1	Materials Characterization and Analysis Techniques	1. Introducing analysis principles, 2. Analysis methods, 3. Selecting the right method		Spring 2022
2	Materials Characterization & Analysis Techniques Lab.	Applications of different analysis methods in materials science and engineering		Spring 2022
3	Advanced Methods of Materials Analysis	Describing advanced methods of materials analysis, especially those that have more applications in research projects		Spring 2022
4	Materials Characterization & Analysis Techniques Lab.	Applications of different analysis methods in materials science and engineering		Spring 2022
5	Crystallography	Introducing different structures of crystalline material, their properties and the characterization methods		Spring 2022
6	Materials Characterization & Analysis Techniques Lab.	Applications of different analysis methods in materials science and engineering		Fall 2021
7	Materials Characterization & Analysis Techniques Lab.	Applications of different analysis methods in materials science and engineering		Fall 2021
8	Lab of Advanced Methods of Materials Analysis	Practical training for some of the new characterization methods		Fall 2021
9	Crystallography	Introducing different structures of crystalline material, their properties and the characterization methods		Fall 2021
10	Materials Characterization and Analysis Techniques	1. Introducing analysis principles, 2. Analysis methods, 3. Selecting the right method		Fall 2021
11	Advanced Methods of Materials Analysis	Describing advanced methods of materials analysis, especially those that have more applications in research projects		Fall 2021
12	Materials Characterization and Analysis Techniques	1. Introducing analysis principles, 2. Analysis methods, 3. Selecting the right method		Spring 2021

13	Lab of Advanced Methods of Materials Analysis	Practical training for some of the new characterization methods		Spring 2021
14	Materials Characterization & Analysis Techniques Lab.	Practicing different analyzing methods		Spring 2021
15	Advanced Methods of Materials Analysis	Describing advanced methods of materials analysis, especially those that have more applications in research projects		Spring 2021
16	Crystallography	Introducing different structures of crystalline material, their properties and the characterization methods		Spring 2021
17	Materials Characterization & Analysis Techniques Lab.	Practicing different analyzing methods		Spring 2021