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Citations (Scopus):

452

Supervised PhD Theses

#	Thesis title	By	Date
1	synthesis of nanoporous Pd-Co alloy by electrodeposition-selective corrosion and studying of formation mechanism and its performance as PEM fuel cell electrocatalyst	Milad Rezaei & S.Hadi Tabaian	June 2014

Supervised MSc Theses

#	Thesis title	By	Date
1	Palladium recovery from industrial wastewater preferably with Alamine300	Farnoosh Olfat & S.Hadi Tabaian	February 2022
2	Galvanic Replacement of Pt by Cu as anode for OER	Mahdi Hamze & S.Hadi Tabaian	September 2020
3	Investigation on the corrosion resistance of Mg-Al layered double hydroxide film formed on AZ31 magnesium alloy	Salimeh Hassanbeigi & S.Hadi Tabaian	February 2019
4	Alloying magnesium with manganese for medical applications and investigation of manganese effect on corrosion in simulated body environment	Seyed Masih Mousavizadeh & S.Hadi Tabaian	February 2019
5	Electroplating of Ni-Cr and investigation of its corrosion behavior in HBF ₄ Solution	Zhina Razaghi & S.Hadi Tabaian	January 2019

6	Study of The effects of adding zirconium to magnesium based alloy for use as implants and investigation of corrosion properties in simulated body environment	Seyed Mohammad Hossein Mousavian & S.Hadi Tabaian	December 2018
7	Purification of strontium carbonate by chemical solution	Hamed Daneshgarnejad & S.Hadi Tabaian	October 2018
8	Corrosion of anodized titanium in saliva	Maryam Ebrahimpour & S.Hadi Tabaian	February 2018
9	Electrodeposition of Pt and anode electrode and Investigation of electrochemical properties	Nooshin Goodarzi & S.Hadi Tabaian	February 2018
10	Hydrometallurgical recovery of strontium compounds from sorkhe mine	Seyed Mohammad Saleh Ameri & S.Hadi Tabaian	July 2017
11	Electrodeposition of Pt-Pd nanoparticles as anode of biosensors	Shamim Pourrahimi Seyghalani & S.Hadi Tabaian	January 2017
12	Plating of Nanostructured HA on magnesium Alloy and Corrosion Investigation in Simulated Body Fluid	Ali Gitiara & S.Hadi Tabaian	October 2016
13	Synthesis of platinum nanostructure by galvanic replacement of nickel and investigation of its electrocatalitical behaviours	Hesam Abdolahi & S.Hadi Tabaian	July 2016
14	comparison of photoanodic behavior of nano size TiO ₂ produced by different method on steel cathodic protection	Sayid Mohammad Ali Tayebzadeh & S.Hadi Tabaian	October 2014
15	Technical-Economic optimization of the corrosion management in the refinery industry	Aliasghar Bayat & S.Hadi Tabaian	October 2014
16	Production of TiO ₂ -based electrocatalyst for fuel cell and its characterization	Maryam Khatibi Aghda & S.Hadi Tabaian	July 2014
17	Preparation of Pt/Ni-Co Coating by Pulse Electrodeposition Method & Investigation on the Kinetics of Methanol Electrooxidation Reaction on this layer	Soheila Shahsavan Toqan & S.Hadi Tabaian	February 2014
18	Synthesis and characterization of graphen- Platinum nanocomposite electrodes for methanol fuel cell application	Maryam Nikkhah Ravari & S.Hadi Tabaian	October 2013
19	Electrochemical Behavior of Co-Pt nano Particles as Electrocatalyst For Using in Fuel Cell	Saeed Maleki & S.Hadi Tabaian	October 2013
20	Kinetics study of methanol and ethanol ethanol electrooxidation on the anode consist of palladium base nanoparticles for application in direct alcohol fuel cells	Mojtaba Zar & S.Hadi Tabaian	February 2013
21	synthesis and photocatalytic performance of modified TiO ₂	Shahpar Fouladvand & S.Hadi Tabaian	October 2012
22	TiO ₂ synthesis and coating by sol-gel method for the reemoval of water contaminants based on photo catalytic property	Hadi Sohrabi & S.Hadi Tabaian	January 2012
23	prduction of	Salar Sedighi & S.Hadi Tabaian	January 2012
24	Synthesis of	Reza Abbas Zadeh & S.Hadi Tabaian	June 2011
25	bba	Ali Dehghanian Nasiri & S.Hadi Tabaian	February 2011

26	bbbb	Aida Hosseinian & S.Hadi Tabaian	February 2011
27	Synthesis of Conducting Polymer Nanowires in Nanoporous template	Nafiseh Hassanzadeh Yazdi & S.Hadi Tabaian	February 2011
28	Thermodynamic investigation of	Farshid Soltanzadeh & S.Hadi Tabaian	September 2010
29	Electrochemistry	Mehdi Azizkarimi & S.Hadi Tabaian	January 2010
30	Fabrication Nanoporous Anodic Alumina that alternative for polymeric membrane used in PEM	Mahdi Mohajeri & S.Hadi Tabaian	December 2009
31	Modeling and simulation of potential distribution in electrochemical cells	Negar Ashari Astani & S.Hadi Tabaian	October 2009
32	Synthesize and characterization of nano pore alumina substrate for membrane productiuon	Mohammad Ahmadi Daryakenari & S.Hadi Tabaian	February 2009
33	separation of Zirconium and Hafnium by Electrical Field using Liquid Membrane	Hamed Shokri & S.Hadi Tabaian	October 2008
34	PREPARATION OF MEMBRANE AND FABRICATION OF METAL NANOWIRE BY ELECTRODEPOSITION PROCESS	Younes Etemad & S.Hadi Tabaian	April 2008
35	Ni AND Co SEPARATION IN AQEOUS MEDIA BY INSERTION ELECTRICAL FIELD	Maedeh Ali Tabar & S.Hadi Tabaian	April 2008
36	EVALUATION OF EFFECTIVE PARAMETERS ON THE NANO-SCALE PROUSITY OF ALUMINA MEMBRANE FOR COBALT NANOWIRE ELECTRODEPOSITION	Mohammad Hosein Rahimi & S.Hadi Tabaian	March 2008
37	STUDY ON THE EFFECT OF VARIOUS FACTORS ON THE RECOVERY OF COBALT FROM FSX-414 SUPERALLOY SCRAP WITH REVERSE PULSE METHOD	Ashraf Ghandchi & S.Hadi Tabaian	July 2007
38	CONCUMENT MECHANO CHEMICAL REDUCTION OF COPPER, zINC AND IEAD oXIDES	Iman Farah Bakhsh & S.Hadi Tabaian	December 2006

Books

#	Title	Author(s)	Publisher country	publication date	version
Portal Records					
1	Chemical Thermodynamics of Materials, Macroscopic and Microscopic Aspects	Davoud Fatmehsari Haghshenas, S.Hadi Tabaian, Mohammadreza Gha-Ani	Iran (Islamic Republic of)	June 2012	1

Journal Papers

Portal Records

1	Seyed Mohammad Hossein Mousavian, S.Hadi Tabaian, "The effect of anodizing electrolyte composition on electrochemical properties of anodized magnesium", ANTI-CORROSION METHODS AND MATERIALS, January 2022 Vol. 69, Num. 2, Page 194-203, January 2022,
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- 2 Negin Hajsafari, Zhina Razaghi, S.Hadi Tabaian, "Electrochemical study and molecular dynamics (MD) simulation of aluminum in the presence of garlic extract as a green inhibitor", JOURNAL OF MOLECULAR LIQUIDS, May 2021 Vol. 336, Num. 0, Page 116386-116386, May 2021,
- 3 Milad Johari, S.Hadi Tabaian, Shahaboddin Saeedi, "Microstructural Characterization and Investigation on Corrosion Properties of Mg?Zn?RE?Ca Alloy as a Possible Biomedical Implant", METALS AND MATERIALS INTERNATIONAL, March 2021 Vol. ., Num. 0, Page 0-0, March 2021,
- 4 Ali Gitiara, S.Hadi Tabaian, "Corrosion Behavior of Mg–Zn–Ca–Mn Alloy Coated with Nano-hydroxyapatite by Cyclic Voltammetry Method", Journal Of Bio- And Tribo-corrosion, February 2021 Vol. 7, Num. 0, Page 45-0, February 2021,
- 5 Seyed Masih Mousavizadeh, S.Hadi Tabaian, "Effect of Mn Addition on Corrosion and Biocompatibility Characteristics of a New Biodegradable Mg–1Ca–2Zn–1RE Alloy", METALS AND MATERIALS INTERNATIONAL, January 2021 Vol. ., Num. 0, Page 0-0, January 2021,
- 6 Chen Chen, Boyuan Ban, Jifei Sun, Jingwei Li, Xuesong Jiang, Jian Shi, Jian Chen, Jianbo Jia, Hassan Sakiani, S.Hadi Tabaian, "Mechanism of boron removal of primary Si phases and morphology evolution of impurity phases during slow cooling solidification refining of Al-30wt.%Si alloy with Zr additions", JOURNAL OF ALLOYS AND COMPOUNDS, December 2020 Vol. 860, Num. 0, Page 158517-0, December 2020,
- 7 Seyed Mohammad Hossein Mousavian, S.Hadi Tabaian, Mohammad Hassan Badiheh Aghdam, "Effects of zirconium addition on electrochemical and mechanical properties of Mg-3Zn-1Ca-1RE alloy", ANTI-CORROSION METHODS AND MATERIALS, November 2020 Vol. 67, Num. 6, Page 0-0, November 2020,
- 8 Hassan Sakiani, S.Hadi Tabaian, Jian Chen, "Influence of Interactions between Alumina Crucible and Si-Ca-Fe Melt on B and P removal from Silicon", SEPARATION AND PURIFICATION TECHNOLOGY, September 2020 Vol. 225, Num. 0, Page 117743-0, September 2020,
- 9 Mehrad Mehdipour, S.Hadi Tabaian, Sadegh Firoozi, "Electrochemical evaluation of IrO₂-Ta₂O₅ MWCNT coated anodes with different pretreatments of titanium substrate", JOURNAL OF THE IRANIAN CHEMICAL SOCIETY, August 2020 Vol. ., Num. 0, Page 0-0, August 2020,
- 10 Hassan Sakiani, S.Hadi Tabaian, Jian Chen, Jingwei Li, Boyuan Ban, "Investigating boron and phosphorus removal from silicon by Si-Ti and Si-Ti-Fe alloying systems", SEPARATION AND PURIFICATION TECHNOLOGY, June 2020 Vol. 250, Num. 117227, Page 0-0, June 2020,
- 11 Salimeh Hassanbeigi, S.Hadi Tabaian, Sepehr Yazdani, "Effect of Manufacturing Parameters on the Corrosion Behavior of AZ31 Coated by Mg–Al Layered Double Hydroxide", METALS AND MATERIALS INTERNATIONAL, March 2020 Vol. 0, Num. 0, Page 0-0, March 2020,
- 12 Mehrad Mehdipour, S.Hadi Tabaian, Sadegh Firoozi, "Anodic electrodeposition of ligand-free iridium oxide on titanium with high mass loading and study of electrochemical treatments", JOURNAL OF ELECTROANALYTICAL CHEMISTRY, February 2020 Vol. 858, Num. 0, Page 113831-113837, February 2020,
- 13 Zhina Razaghi, Milad Rezaei, S.Hadi Tabaian, "Electrochemical noise and impedance study on the corrosion of electroplated Ni-Cr coatings in HBF₄ aqueous solution", JOURNAL OF ELECTROANALYTICAL CHEMISTRY, February 2020 Vol. 859, Num. 113838, Page 1-12, February 2020,
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- 15 Hassanali Rasouli, S.Hadi Tabaian, Milad Rezaei, "Galvanic replacement of Ni thin film in Pt(IV) + Pd(II) solutions and evaluation of structure and electrocatalytic features of the synthesized nanostructures", MATERIALS CHEMISTRY AND PHYSICS, October 2019 Vol. 239, Num. 0, Page 1-10, October 2019,
- 16 Zahra Mahmoudi, S.Hadi Tabaian, Hamid Reza Rezaie, Farzad Mahboubi, Mariyam Jameelah Ghazali, "Synthesis of Ti₂AlC & Ti₃AlC₂ MAX phases by Arc-PVD using Ti–Al target in C₂H₂/Ar gas mixture and subsequent annealing", CERAMICS INTERNATIONAL, October 2019 Vol. 46, Num. 4, Page 4968-4975, October 2019,
- 17 Shamim Pourrahimi Seyghalani, Milad Rezaei, S.Hadi Tabaian, "Electrochemical investigation of Pt–Pd nanoparticles formation–reduction kinetics and nucleation mechanisms", JOURNAL OF APPLIED ELECTROCHEMISTRY, September 2019 Vol. 49, Num. 11, Page 1143-1155, September 2019,

- 18 Mojtaba Zar, S.Hadi Tabaian, Hamid Omidvar, Ali Saberi Mehr, Ghader Hosseinzadeh, "Kinetic Study of Ethanol and Methanol Electro-oxidation on Pd-vulcan XC-72R/Cu Electrocatalyst in Alkaline Media", *Journal of Nanostructures*, July 2019 Vol. 9, Num. 3, Page 539-546, July 2019,
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- 23 Mohammadreza Pourfard, Karim Faez, S.Hadi Tabaian, "Unsupervised Gabor Filter-Bank Method for Characterization of the Self-Assembled Hexagonal Lattice", *JOURNAL OF NANO RESEARCH*, May 2015 Vol. 31, Num. 1, Page 40-61, May 2015,
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- 27 Shima Damghanian, Hamid Omidvar, S.Hadi Tabaian, Amir Reza Azadmehr, "FABRICATION OF A "CONE PAA NANOSTRUCTURE" BY GRADUAL DECREASE OF VOLTAGE", *Iranian Journal of Materials Science and Engineering*, June 2014 Vol. 11, Num. 2, Page 71-78, June 2014,
- 28 Vahid Mazinani, S.Hadi Tabaian, Milad Rezaei, Mahdihyeh Mallahi, Mohsen Mohammadjoo, Hamid Omidvar, "Synthesis and Characterization of Nafion-ZrOH-CaO Hybrid Membrane for Proton Exchange Membrane Fuel Cell", *JOURNAL OF FUEL CELL SCIENCE AND TECHNOLOGY*, May 2014 Vol. 11, Num. 11, Page 1-6, May 2014,
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- 41 Farshid Soltanzadeh, S.Hadi Tabaian, "Thermodynamic investigation of copper refinement from lead impurities by thermal methods", June 2011 Vol. 14, Num. 0, Page 22-27, June 2011,
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Portal Records

- 1 Farzad Firouzi, S.Hadi Tabaian, "Optimizing the Oxi-chlorination Leaching Process of Stibnite by Ozone ", 8th International Conference on Materials Engineering and Metallurgy, October 2019
- 2 Zhina Razaghi, S.Hadi Tabaian, Milad Rezaei, "Corrosion behavior of Cr-Ni electrodeposited in HBF₄ environment ", Iran international conference on materials and metallurgical engineering, October 2018
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- 5 Seyed Mohammad Saleh Ameri, S.Hadi Tabaian, Davoud Haghshenas, "Chemical Processing of Celestine; Calcium Removal from Celestine ", 5th International Conference on Materials Engineering & Metallurgy, November 2016
- 6 Hassanali Rasouli, S.Hadi Tabaian, "Galvanic replacement of nickel thin film by palladium ions and electrocatalytic behavior of obtained dendritic nanostructures ", 6th International Conference on Nanostructures (ICNS6), March 2016
- 7 Arman Kariznoee, S.Hadi Tabaian, "Synthesis methods of nickel oxide nanoparticles ", The conference on nanosciences and nanotechnology, October 2014
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- 9 Maryam Nikkhaah Ravari, S.Hadi Tabaian, Milad Rezaei, "Synthesis and characterization of Pt/graphene sheet nanocomposite and its electrocatalytic activities for methanol oxidation ", Ultrafine Grained and Nanostructured Materials, November 2013
- 10 Hadi Sohrabi, S.Hadi Tabaian, Hamid Omidvar, "The effect of photo catalytic parameters on methylene blue destruction by TiO₂ composite nano layer ", The First International and The 6th Joint Conference of Iranian Metallurgical Engineering Society and Iranian Foundrymens Society, November 2012
- 11 Aida Hosseinian, Hamid Omidvar, S.Hadi Tabaian, "Simulation of atmospheric corrosion of Ag - Pd alloys in sulfur containing gases using Factsage software ", 13th national congress of corrosion, May 2012
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- 15 Hamid Omidvar, Nafiseh Hassanzadeh Yazdi, S.Hadi Tabaian, "Chemical template synthesis of polypyrrole nanowire arrays and their hydrogen gas sensing properties ", 32nd International Conference on Solution Chemistry, August 2011
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- 18 Nafiseh Hassanzadeh Yazdi, Hamid Omidvar, S.Hadi Tabaian, Ali Dehghanian Nasiri, "Electrochemical and chemical detachment of anodic alumina from aluminium substrate ", 1st National Conference of Membrane, February 2011

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- 21 Ali Dehghanian Nasiri, S.Hadi Tabaian, Hamid Omidvar, Reza Abbas Zadeh, Nafiseh Hassanzadeh Yazdi, "Synthesis of titanium oxide nano-wire in nano-porous alumina template ", 1st National Conference of Nano Science & Nano Technology, February 2011
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- 23 Farshid Soltanzadeh, S.Hadi Tabaian, "Thermodynamic investigation of copper refining from lead impurities by thermal methods ", 14th annual congress of Iranian metallurgical engineering society, November 2010
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- 25 Mahdi Mohajeri, S.Hadi Tabaian, Hamid Omidvar, Mohammad Ahmadi Daryakenari, "Fabrication Nanocomposite Membrane by nanoporous anodic alumina substrate that filled with conductive polymer for use in H₂/O₂ Fuel cell ", 2nd International Conference on Ultrafine Grained and Nanostructured Materials, November 2009
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- 36 , S.Hadi Tabaian, Pirooz Marashi, Shahyar Saramad, "The effect of aluminum electropolishing on nano-pores arrangement in Anodic Alumina Membranes ", International Conference on Ultrafine Grained and Nanostructured Materials, November 2007
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- 38 I. Iwasaki, N.X. Fu, S.Hadi Tabaian, "Low Temperature Gaseous Chlorination for Sulphur Oxide Free Extraction of Copper from Chalcopyrite Concentrates ", 32 nd Annual Hydrometallurgy Meeting, January 2002

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Taught Courses

#	Course title	Description	Headlines	Date
1	Oxidation and Hot Corrosion	.		Spring 2022
2	Non-Ferrous Metal Production	Learning about highly used non-ferrous metals and their extraction methods		Spring 2022
3	Principles of Metal Production(I)	1-Introduction to pyrometallurgical and Hydrometallurgical Processes for Production, Refining and Recycling of Metals and Metal Compounds, 2- Introduction to Metal Production Techniques		Spring 2022
4	Theory of Pyrometallurgical Processes	Getting Familiar with high temperature routes for metal production		Fall 2021
5	Advance Thermodynamics (Corrosion)	Introduction to materials thermodynamics and its relation to electrochemistry and corrosion		Fall 2021
6	Advanced Thermodynamics of Materials	Phase equilibrium and thermodynamics bases		Fall 2021
7	Principles of Metal Production(I)	1-Introduction to pyrometallurgical and Hydrometallurgical Processes for Production, Refining and Recycling of Metals and Metal Compounds, 2- Introduction to Metal Production Techniques		Spring 2021
8	Oxidation and Hot Corrosion	.		Spring 2021
9	Non-Ferrous Metal Production	Learning about highly used non-ferrous metals and their extraction methods		Spring 2021
10	Advanced Thermodynamics	k		Spring 2021

Inventions/Patents

#	Invention title	Reg. number	Country	contributers	Reg. date	Exp. date
1	Design and fabrication of atmospheric corrosion test setup	65616			2010/07/1	-
2	Fabrication of AAM with commercial aluminum for PEMFC membrane	38801382			2009/04/1	2029/04/1

