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h-index (Scopus):

5

Citations (Scopus):

141

**Supervised MSc Theses**

#	Thesis title	By	Date
1	Investigation of reaction between molten metal and binary oxide ( $\text{SiO}_2 + \text{MoO}_3$ ) in ATIG welding of 316L steel	Alireza Karami & Alireza Ebrahimi	August 2021
2	The effect of ( $\text{SiO}_2\text{-XMoO}_3$ ) fluxes on the depth of penetration to width ratio and microstructure joint of A-TIG weld 316L steel	Amirmohammad Rahi & Alireza Ebrahimi	January 2021
3	Investigation the effect of adding iron powder to Ancorbraze72 filler metal on joint strength of powder metallurgy components by brazing method	Pouria Bastani & Alireza Ebrahimi	August 2020
4	Investigation of deep penetration mechanism and composites produced on A-TIG 5083 weld	Amir Sadeqi & Alireza Ebrahimi	July 2019
5	Corrosion Behavior of FB TIG Welded AA 5083 Aluminum Alloy	Amir Gholami & Alireza Ebrahimi	July 2019
6	Numerical simulation of melt flow and distribution of the oxide particles in A-TIG weld pool of 304L stainless steel	Sara Pourmand & Alireza Ebrahimi	February 2019
7	Title : Flux-Bonded TIG Welding of 5083 Aluminum Alloy	Reza Karimpour & Alireza Ebrahimi	July 2018
8	Evaluation of cold hydrogen craking resistance in Electrode E11018 by using the G-BOP test.	Arash Dehghan & Alireza Ebrahimi	February 2018
9	optimization of a technology for active TIG welding of thick plates austenitic stainless steel	Omid Mohamadi & Alireza Ebrahimi	February 2018

10	Effect of Graphite and porosity on brazed joint properties of Powder Metallurgy parts with ancorbraz 72	Alireza Rashidnejad & Alireza Ebrahimi	February 2018
11	Simulation of Weld pool during A-TIG of commercially pure aluminum	Mohammadreza Roshani & Alireza Ebrahimi	July 2017
12	Investigation of properties of brazed powder metallurgy compacts using Ancorbraz 72	Adnan Naji Shakeer Al Dujaili & Alireza Ebrahimi	May 2017
13	Simulation of weld pool during active TIG of 316L stainless steel	Navid Bahrami & Alireza Ebrahimi	March 2017
14	Ultrasonic residual stress measurement in upset weld	Ali Reza Faraji Alamooti & Alireza Ebrahimi	October 2016

## Journal Papers

### Portal Records

- 1 Arezou Abyazi, Alireza Ebrahimi, "Effect of spherical inclusions on fatigue anisotropy of HSLA-100 steel", MATERIALS SCIENCE AND TECHNOLOGY, March 2021 Vol. 37, Num. 3, Page 314-325, March 2021,
- 2 Arezoo Abyazi, Alireza Ebrahimi, "Estimation of Maximum Inclusion Size and Fatigue Limit in HSLA-100 Steel", International Journal of Iron & Steel Society of Iran, December 2020 Vol. 16, Num. 2, Page 16-21, December 2020,
- 3 Sara Pourmand, Amin Jafari Ramiani, Alireza Ebrahimi, "Numerical investigation of heat, flow and particle trajectory in A-TIG welding pool of 304L-SS", Welding in the World, August 2020 Vol. 0, Num. 0, Page 1-13, August 2020,
- 4 Ehsan Ahmadi, Alireza Ebrahimi, Ahmad Hoseinzadeh, "Microstructure Evolution and Mechanical Properties of 2219 Aluminum Alloy A-TIG Welds", PHYSICS OF METALS AND METALLOGRAPHY, June 2020 Vol. 121, Num. 5, Page 535-542, June 2020,
- 5 R. Tamasgavabari, Alireza Ebrahimi, Seyed Mehdi Abbasi, "The influence of the applied mechanical vibration during welding on the residual stress and the fatigue crack growth rate of AA-5083 aluminum alloy", KOVOVE MATERIALY-METALLIC MATERIALS, June 2020 Vol. 58, Num. 4, Page 223-245, June 2020,
- 6 R. Tamasgavabari, Alireza Ebrahimi, Seyed Mehdi Abbasi, Alireza Yazdipour, "Effect of harmonic vibration during gas metal arc welding of AA-5083 aluminum alloy on the formation and distribution of intermetallic compounds", Journal of Manufacturing Processes, December 2019 Vol. 49, Num. 0, Page 413-422, December 2019,
- 7 Nosrattallah Abdali, Alireza Ebrahimi, "Determining the Optimal Amount of Oxide Flux in A-TIG Welding of HSLA-100 Steel", , October 2019 Vol. 30, Num. 0, Page 103-112, October 2019,
- 8 R. Tamasgavabari, Alireza Ebrahimi, Seyed Mehdi Abbasi, Alireza Yazdipour, "Effect of Harmonic Vibration on Microstructure and Mechanical Properties of AA-5083-H321 Aluminum Alloy GMAW Welds", , August 2019 Vol. پنجم, Num. 1, Page 133-145, August 2019,
- 9 Reza Tamasgavabari, Alireza Ebrahimi, Seyed Mehdi Abbasi, Ali Reza Yazdipour, "The effect of harmonic vibration with a frequency below the resonant range on the mechanical properties of AA-5083-H321 aluminum alloy GMAW welded parts", MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, August 2018 Vol. A736, Num. 0, Page 248-257, August 2018,
- 10 Arezoo Abyazi, Alireza Ebrahimi, "Mechanical anisotropy in Ca-treated and ultra-low sulphur HSLA-100 steel", MATERIALS SCIENCE AND TECHNOLOGY, January 2016 Vol. 0, Num. 0, Page 1-9, January 2016,
- 11 Arezoo Abyazi, Alireza Ebrahimi, "The Effect of Inclusions on Through-thickness Directional Fatigue Behavior of S355N Steel Plate", International Journal of Iron & Steel Society of Iran, March 2015 Vol. 11, Num. 1, Page 1-6, March 2015,
- 12 Faraz Omidbakhsh, Alireza Ebrahimi, Jaroslav Sojka, "A Kinetics and Morphological Study on the Oxidation Behavior of Ti-4Al-2V Alloy", OXIDATION OF METALS, February 2015 Vol. 84, Num. 0, Page 33-44, February 2015,

- 13 Faraz Omidbakhsh, Alireza Ebrahimi, "Lattice parameters of Ti-4Al-2V alloy with thermal oxidation", RARE METALS, February 2015 Vol. 0, Num. 0, Page 0-0, February 2015,
- 14 Ehsan Ahmadi, Alireza Ebrahimi, "Welding of 316L Austenitic Stainless Steel with Activated Tungsten Inert Gas Process", JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, December 2014 Vol. 24, Num. 2, Page 1065-1071, December 2014,
- 15 Ehsan Ahmadi, Alireza Ebrahimi, Rasoul Azari Khosroshahi, "Welding of 304L Stainless Steel with Activated Tungsten Inert gas Process", International Journal of Iron & Steel Society of Iran, August 2014 Vol. 10, Num. 1, Page 27-33, August 2014,







## Conference Papers

### Portal Records

- 1 Arezoo Abyazi, Hale Saleke Asadollahi, Alireza Ebrahimi, "Effect of crystallographic texture on anisotropy of tensile behaviour in HSLA steels ", 9th International Conference on Materials Engineering and Metallurgy, November 2020
- 2 Sadegh Rezaee, Alireza Ebrahimi, Alireza Mahmoudi, Sina Shakibania, "Synthesis and Characterization of Na<sub>2</sub>Ti<sub>3</sub>O<sub>7</sub> powder ", 8th International Conference on Materials Engineering and Metallurgy, October 2019
- 3 Ramin Ebadi Aghmiuni, Amin Jafari Ramiani, Alireza Ebrahimi, "Numerical Simulation of Plasma Arc in A-TIG Welding of Stainless Steel ", IMAT 98 - 8th International Conference on Materials Engineering and Metallurgy, October 2019
- 4 Amir Gholami, Alireza Ebrahimi, Milad Rezaei, "A study on the corrosion behavior of FB-TIG AA5083 alloy welded joint by electrochemical methods ", 8th International Conference on Materials Engineering and Metallurgy, October 2019
- 5 Arezoo Abyazi, Alireza Ebrahimi, "Detectability of elongated manganese sulfide inclusions using destructive and non-destructive tests ", The 5th Iranian International NDT Conference, November 2018
- 6 Arezoo Abyazi, Alireza Ebrahimi, "Anisotropy of Charpy impact strength in microalloy steels ", 7th international conference and exhibition of metallurgy and materials engineering, October 2018
- 7 Sara Pourmand, Amin Jafari Ramiani, Alireza Ebrahimi, "Numerical Simulation of Melt flow and Particle distribution in Weld Pool of 304L Stainless Steel ", 7th International Conference on Materials Engineering and Metallurgy, October 2018
- 8 Alireza Rashidnejad, Alireza Ebrahimi, Nader Parvin, "Brazing of iron powder metallurgy parts with different porosity percentage ", 7th international conference and exhibition of metallurgy and materials engineering, October 2018
- 9 Arezoo Abyazi, Alireza Ebrahimi, "Effect of inclusion on the through thickness fatigue behavior of microalloy steels ", 7th international conference and exhibition of metallurgy and materials engineering, October 2018
- 10 Alireza Rashidnejad, Alireza Ebrahimi, Nader Parvin, "The effect of graphite upon brazability of ferrous powder metallurgy components using Anchorbraze 72 filler metal ", PM AUTO 2018 International Conference, April 2018
- 11 Arezoo Abyazi, Alireza Ebrahimi, Haniye Shokati, "The charpy impact strength anisotropy of LT and LS specimens of HSLA-100 steel ", Steel Symposium96, February 2018
- 12 Arezoo Abyazi, Alireza Ebrahimi, "Investigating the occurrence of delamination in tensile samples of HSLA-100 steel ", 6th International Conference of Materials and Metallurgical Engineering, October 2017
- 13 Arezoo Abyazi, Alireza Ebrahimi, "Investigating the occurrence of delamination in Charpy samples of S355N steel ", 6th International Conference of Materials and Metallurgical Engineering, October 2017
- 14 Reza Tamas Govabari, Alireza Ebrahimi, Seyed Mehdi Abbasi, Alireza Yazdipur, "The effect of vibrations during GMA welding on the microstructure of AA5083 aluminum alloy ", 6th International Conference on Materials and Metallurgical Engineering, October 2017
- 15 Navid Bahrami, Ali Farzadi, Alireza Ebrahimi, "Simulation of Heat transfer and fluid flow in weld pool during A-TIG process in stainless steel 316L ", 5th International Conference on Materials and Metallurgy, November 2016

- 16 Mohammadreza Roshani, Ali Farzadi, Alireza Ebrahimi, "Simulation of weld pool during A-TIG of commercially pure aluminum ", 5th International Conference on Materials Engineering and Metallurgy, November 2016
- 17 Sajjad Varmazyar, Alireza Ebrahimi, Beitollah Eghbali, "Effect of Silicon Oxide flux in FB-TIG on Aluminum Alloy 7039 Weld Properties ", 5th International Conference of Materials Engineering and Metallurgy, November 2016
- 18 Rahman Rafizade, Tohid Saeid, Alireza Ebrahimi, Javad Molaee Milani, Tohid Razinia, "Influence of Heat Input of GTA Welding on Microstructure and Mechanical Properties of HSLA-100 Steel ", 3rd International Engineering Materials & Metallurgy Conference, November 2014
- 19 Arezoo Abyazi, Alireza Ebrahimi, "Evaluation of lamellar tearing in HSLA 100 steel ", 3rd International Engineering Materials & Metallurgy Conference, November 2014
- 20 Arezoo Abyazi, Alireza Ebrahimi, "Characteristics of inclusions in HSLA 100 steel ", 3rd International Engineering Materials & Metallurgy Conference, November 2014

## Taught Courses

#	Course title	Description	Headlines	Date
1	Fracases & Fatigued (Fractures Mechanics)	Introduction to mechanical and metallurgical factors affecting the fracture and fatigue behavior of metals and engineering alloys		Fall 2021
2	Dislocations Theory	Understanding the dislocations and its use to understand the mechanical behavior of materials		Fall 2021
3	Research Methodology & Report Writing	Introduction to Research Principles and Research Methodology		Spring 2021
4	Mechanical Properties of Materials (I)	Introduction to mechanical property of metals and alloys		Spring 2021
5	Dislocations Theory	Understanding the dislocations and its use to understand the mechanical behavior of materials		Fall 2020
6	Mechanical Properties of Materials (I)	Introduction to mechanical property of metals and alloys		Fall 2020

## Inventions/Patents

#	Invention title	Reg. number	Country	contributors	Reg. date	Exp. date
1	Flux Bounded Tungsten Inert Gas(TIG) Welding of AA5083 Aluminum Alloy	93820			2017/10/1	2036/12/1