



دانشگاه صنعتی امیرکبیر
(پلی تکنیک تهران)

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5

ارجاعات (Scopus):

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علیرضا ابراهیمی

دانشیار

دانشکده مهندسی مواد و متالورژی

گروه آموزشی فرآیندهای ساخت

پایان نامه های کارشناسی ارشد

#	عنوان پایان نامه	توسط	تاریخ دفاع
1	بررسی واکنش های بین مذاب و فلاکس دوجزئی اکسیدی (SiO ₂ - MoO ₃) در جوشکاری A - TIG فولاد 316L	علیرضا کرمی و علیرضا ابراهیمی	مرداد 1400
2	اثر فلاکس های SiO ₂ - xMoO ₃ ، بر نسبت عمق نفوذ به پهنا و ریز ساختار اتصال جوش A - TIG فولاد 316L	امیرمحمد رهی و علیرضا ابراهیمی	بهمن 1399
3	بررسی تاثیر افزودن آهن به فلز پرکننده 72 Ancorbrazه بر استحکام اتصال لحیم کاری سخت قطعات متالورژی پودر	پوریا باستانی و علیرضا ابراهیمی	شهریور 1399
4	بررسی مکانیزم افزایش عمق نفوذ و کامپوزیت سازی در جوشکاری FB-TIG آلیاژ آلومینیم 5083	امیر صادقی و علیرضا ابراهیمی	تیر 1398
5	بررسی رفتار خوردگی جوش FB TIG آلیاژ آلومینیم 5083	امیر غلامی و علیرضا ابراهیمی	تیر 1398
6	شبیه سازی عددی جریان مذاب و توزیع ذرات اکسیدی در حوضچه جوش A-TIG فولاد زنگ نزن 304L	سارا پورمند و علیرضا ابراهیمی	بهمن 1397
7	جوشکاری آلیاژ آلومینیوم Al-5083 به روش FB-TIG و بررسی عمق نفوذ	رضا کریم پور و علیرضا ابراهیمی	تیر 1397
8	ارزیابی مقاومت به ترک سرد هیدروژنی الکتروود E11018 با استفاده از آزمون G-BOP	ارش دهقان و علیرضا ابراهیمی	بهمن 1396
9	بهینه سازی تکنولوژی تیگ فعال برای جوشکاری ورق های ضخیم فولاد زنگ نزن آستنیتی	امید محمدی و علیرضا ابراهیمی	بهمن 1396
10	اثر میزان تخلخل و کربن در قطعه ی متالورژی پودر بر خواص اتصال لحیم کاری سخت با Ancorbrazه 72 فیلتر	علیرضا رشیدنژاد و علیرضا ابراهیمی	بهمن 1396

تیر 1396	محمد رضا روشنی و علیرضا ابراهیمی	شبیه سازی حوضچه جوش A-TIG آلومینیوم خالص تجاری	11
خرداد 1396	عدنان ناجی شکیر الدجیلی و علیرضا ابراهیمی	بررسی خواص لحیم کاری سخت قطعات آهنی متالورژی پودر با استفاده از Ancorbraz	12 72
اسفند 1395	نوید بهرامی و علیرضا ابراهیمی	شبیه سازی حوضچه جوش A-TIG فولاد زنگ نزن 316L	13
مهر 1395	علی رضا فرجی الموتی و علیرضا ابراهیمی	اندازه گیری تنش پسماند در جوش مقاومتی سر به سر به روش آتراسونیک	14

مقالات ژورنال

داده های ثبت شده در پورتال

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- 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*, 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*, 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*, 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 Processess*, Vol. 49, Num. 0, Page 413-422, December 2019,
- 7 Nosratalah Abdali, Alireza Ebrahimi, "Determining the Optimal Amount of Oxide Flux in A-TIG Welding of HSLA-100 Steel", , Vol. 30, Num. 0, Page 103-112, October 2019,
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- 10 Arezoo Abyazi, Alireza Ebrahimi, "Mechanical anisotropy in Ca-treated and ultra-low sulphur HSLA-100 steel", *MATERIALS SCIENCE AND TECHNOLOGY*, 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*, 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*, Vol. 84, Num. 0, Page 33-44, February 2015,
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- 14 Ehsan Ahmadi, Alireza Ebrahimi, "Welding of 316L Austenitic Stainless Steel with Activated Tungsten Inert Gas Process", *JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE*, 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*, Vol. 10, Num. 1, Page 27-33, August 2014,

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- 2 Sadegh Rezaee, Alireza Ebrahimi, Alireza Mahmoudi, Sina Shakibania, "Synthesis and Characterization of Na₂Ti₃O₇ 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 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
- 7 Arezoo Abyazi, Alireza Ebrahimi, "Anisotropy of Charpy impact strength in microalloy steels ", 7th international conference and exhibition of metallurgy and materials engineering, October 2018
- 8 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
- 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 Charpy samples of S355N steel ", 6th International Conference of Materials and Metallurgical Engineering, October 2017
- 13 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
- 14 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
- 15 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
- 16 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

- 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 Arezoo Abyazi, Alireza Ebrahimi, "Characteristics of inclusions in HSLA 100 steel ", 3rd International Engineering Materials & Metallurgy Conference, November 2014
- 19 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
- 20 Arezoo Abyazi, Alireza Ebrahimi, "Evaluation of lamellar tearing in HSLA 100 steel ", 3rd International Engineering Materials & Metallurgy Conference, November 2014

دروس ارائه شده

# عنوان درس	توصیف درس	سرفصل ها	دوره درسی
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 Mechanical Properties of Materials (I)	Introduction to mechanical property of metals and alloys		Spring 2021
4 Research Methodology & Report Writing	Introduction to Research Principles and Research Methodology		Spring 2021
5 Mechanical Properties of Materials (I)	Introduction to mechanical property of metals and alloys		Fall 2020
6 Dislocations Theory	Understanding the dislocations and its use to understand the mechanical behavior of materials		Fall 2020

اختراعات/ ثبت پتنت

# عنوان اختراع	شماره ثبت	کشور ثبت کننده	همکاران	تاریخ ثبت	تاریخ انقضا
داده های ثبت شده در پورتال					
1 جوشکاری TIG با دو باند فلاکس فعال کننده آلیاژ AA5083	93820	-	سجاد ورمزیار، علیرضا ابراهیمی	1396/7/9	1415/9/11