

Prof. EMEL TABAN

Personal Information

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Education Information

Doctorate, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, Turkey 2004 - 2007

Post Graduate, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, Turkey 2002 - 2004

Under Graduate, Atatürk Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 1998 - 2002

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Yapısal Uygulamalar İçin Geliştirilen Modifiye 12 Cr Ferritik Paslanmaz Çeliğinin Özellikleri ve Kaynak Kabiliyeti (Weldability and Properties of Modified 12 Cr Ferritic Stainless Steel for Structural Applications, Kocaeli University, Mühendislik Fakültesi, Makina Mühendisliği, 2007

Post Graduate, 5xxx Serisi Alüminyum Alaşımlarının TIG, MIG ve Sürtünen Eleman ile Birleştirme (FSW) Kaynaklı Bağlantılarının Mekanik ve Mikroyapısal Özelliklerinin İncelenmesi (Investigation on Mechanical and Microstructural Properties of TIG, MIG and Friction Stir Welded 5xxx Series Aluminum Alloys), Kocaeli University, Mühendislik Fakültesi, Makina Mühendisliği, 2004

Research Areas

Non-traditional manufacturing methods, Welding Methods, Material, Engineering and Technology

Academic Titles / Tasks

Professor, Kocaeli University, Mühendislik Fakültesi, Makina Mühendisliği, 2018 - Continues

Associate Professor, Kocaeli University, Mühendislik Fakültesi, Makina Mühendisliği, 2012 - 2018

Academic and Administrative Experience

IAESTE (International Association for the Exchange of Students for Technical Experience) Kocaeli Üniversitesi Koordinatörü, Kocaeli University, Mühendislik Fakültesi, Makina Mühendisliği, 2015 - Continues

Deputy Director of the Center, Kocaeli University, Mühendislik Fakültesi, Makina Mühendisliği, 2012 - Continues

Erasmus Coordinator, Kocaeli University, Mühendislik Fakültesi, Makina Mühendisliği, 2016 - 2019

Farabi Coordinator, Kocaeli University, Mühendislik Fakültesi, Makina Mühendisliği, 2015 - 2019

Courses

Final Project, Under Graduate, 2019 - 2020

Mechanical Engineering Lab., Under Graduate, 2019 - 2020

Mechanical Design Project, Under Graduate, 2019 - 2020

Modern Kaynak Yöntemleri, Post Graduate, 2017 - 2018

Kaynağın Fiziksel Metalurjisi, Post Graduate, 2017 - 2018

Çelik Üretim Teknolojisindeki Gelişmeler ve Yeni Nesil Çelikler, Under Graduate, 2017 - 2018

Advising Theses

Taban E., T, Post Graduate, H.Nüman(Student), 2018

Taban E., T, Post Graduate, B.Gülşah(Student), 2018

Taban E., T, Doctorate, O.Oladimeji(Student), 2016

Taban E., T, Post Graduate, E.Ünel(Student), 2016

Jury Memberships

Associate Professor Exam, Associate Professor Exam, Erciyes Üniversitesi, December, 2020

Associate Professor Exam, Associate Professor Exam, Kocaeli Üniversitesi, December, 2020

Associate Professor Exam, Associate Professor Exam, Mersin Üniversitesi, November, 2020

Associate Professor Exam, Associate Professor Exam, Karabük Üniversitesi, September, 2020

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Defects and post-manufacturing processes of additively manufactured steels: A Review (Part 2)**
Ojo O. O. , TABAN E.
MATERIALS TESTING, vol.62, no.8, pp.835-848, 2020 (Journal Indexed in SCI)
- II. **Microstructure, Mechanical and Corrosion Behavior of Additively Manufactured Steel: A Review (Part 1)**
Taban E., Ojo O. O.
Materialprüfung, vol.62, no.5, pp.503-516, 2020 (Journal Indexed in SCI Expanded)
- III. **Effect of inoculant type and treatment material quantity on properties of vermicular graphite cast iron vehicle brake discs**
Er O., Kaluç E., Taban E., Öz Saraç U.
Materialprüfung, vol.61, no.12, pp.1197-1207, 2019 (Journal Indexed in SCI Expanded)
- IV. **Effect of inoculant type and treatment material quantity on properties of vermicular graphite cast iron rail vehicle brake discs**
Er O., KALUÇ E., TABAN E., ÖZSARAÇ U.
MATERIALS TESTING, vol.61, no.12, pp.1197-1207, 2019 (Journal Indexed in SCI)
- V. **Cyclic lateral behavior of friction stir spot welds of AA2219 aluminum alloy: impact of inherent flow defects**
Ojo O. O. , Taban E., Kaluç E., Şık A.
Kovove Materialy-Metallic Materials, vol.57, no.5, pp.329-347, 2019 (Journal Indexed in SCI)
- VI. **Dissimilar robotic cold metal transfer (CMT) welding of an aluminum alloy to galvanized steel**
Numan H., TABAN E.
Materialprüfung/Materials Testing, vol.61, no.1, pp.91-96, 2019 (Journal Indexed in SCI)
- VII. **Effect of residual Alclad on friction stir spot welds of AA2219 alloys**

- Ojo O. O., Taban E., Kaluç E.
Materialpruefung/Materials Testing, vol.60, pp.979-988, 2018 (Journal Indexed in SCI)
- VIII. **Hybrid multi-response optimization of friction stir spot welds: failure load, effective bonded size and flash volume as responses**
Ojo O. O., TABAN E.
SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, vol.43, no.6, 2018 (Journal Indexed in SCI)
- IX. **Properties and optimization of friction stir spot welded aluminum alloy 3003-H14**
Taban E., Gun D., Kaluç E., Baynal K.
Materialpruefung/Materials Testing, vol.60, pp.367-372, 2018 (Journal Indexed in SCI)
- X. **Loop travel-path of fibre laser welded Alclad AA2219-0 alloy**
Ojo O. O., Taban E., Kaluç E.
Journal of Materials Processing Technology, vol.251, pp.118-126, 2018 (Journal Indexed in SCI)
- XI. **Properties and optimization of dissimilar aluminum steel CMT welds**
Unel E., TABAN E.
WELDING IN THE WORLD, vol.61, no.1, pp.1-9, 2017 (Journal Indexed in SCI)
- XII. **Understanding the role of welding parameters and tool profile on the morphology and properties of expelled flash of spot welds**
Oladimeji O. O., Taban E., Kaluç E.
Materials and Design, vol.108, pp.518-528, 2016 (Journal Indexed in SCI)
- XIII. **Trend and innovations in laser beam welding of wrought aluminum alloys**
Oladimeji O. O., TABAN E.
Welding in the World, vol.60, no.3, pp.415-457, 2016 (Journal Indexed in SCI)
- XIV. **Properties, weldability and corrosion behavior of supermartensitic stainless steels for on-and offshore applications**
TABAN E., KALUÇ E., Ojo O. O.
Materialpruefung/Materials Testing, vol.58, no.6, pp.501-518, 2016 (Journal Indexed in SCI)
- XV. **Friction stir spot welding of aluminum alloys: A recent review**
Ojo O. O., Taban E., Kaluç E.
Materialpruefung/Materials Testing, vol.57, pp.609-627, 2015 (Journal Indexed in SCI)
- XVI. **Mechanical, fatigue and microstructural properties of friction stir welded 5083-H111 and 6082-T651 aluminum alloys**
Gungor B., Kaluç E., Taban E., Sik A.
MATERIALS & DESIGN, vol.56, pp.84-90, 2014 (Journal Indexed in SCI)
- XVII. **Mechanical and microstructural properties of robotic Cold Metal Transfer (CMT) welded 5083-H111 and 6082-T651 aluminum alloys**
Gungor B., Kaluç E., Taban E., Sik Ş.Ş A.
Materials and Design, vol.54, pp.207-211, 2014 (Journal Indexed in SCI)
- XVIII. **Effect of the purging gas on properties of 304H GTA welds**
TABAN E., KALUÇ E., Aykan T.
Welding Journal, vol.93, no.4, 2014 (Journal Indexed in SCI)
- XIX. **Effect of the purging gas on properties of Ti stabilized AISI 321 stainless steel TIG Welds**
Taban E., Kaluç E., Aykan T. S.
Materialpruefung/Materials Testing, vol.56, pp.950-957, 2014 (Journal Indexed in SCI)
- XX. **Effect of the consumable on the properties of gas metal arc welded EN 1.4003-type stainless steel**
TABAN E., Dhooge A., KALUÇ E., Deleu E.
Welding Journal, vol.91, no.8, 2012 (Journal Indexed in SCI)
- XXI. **Welding behaviour of duplex and superduplex stainless steels using laser and plasma arc welding processes**
Taban E., Kaluç E.
Welding in the World, vol.55, pp.48-57, 2011 (Journal Indexed in SCI)
- XXII. **Dissimilar friction welding of 6061-T6 aluminum and AISI 1018 steel: Properties and**

microstructural characterization

TABAN E., Gould J. E. , Lippold J. C.

Materials and Design, vol.31, no.5, pp.2305-2311, 2010 (Journal Indexed in SCI)

- XXIII. **Characterization of 6061-T6 aluminum alloy to AISI 1018 steel interfaces during joining and thermo-mechanical conditioning**
Taban E., Gould J. E. , Lippold J. C.
Materials Science and Engineering A, vol.527, pp.1704-1708, 2010 (Journal Indexed in SCI)
- XXIV. **Hybrid (plasma + gas tungsten arc) weldability of modified 12% Cr ferritic stainless steel**
TABAN E., KALUÇ E., Dhooge A.
Materials and Design, vol.30, no.10, pp.4236-4242, 2009 (Journal Indexed in SCI)
- XXV. **POSSIBILITIES AND LIMITATIONS TO IMPROVE THE WELDABILITY OF LOW CARBON 12Cr FERRITIC STAINLESS STEEL FOR EXPANDED INDUSTRIAL APPLICATIONS**
DELEU E., DHOOGHE A., TABAN E., KALUÇ E.
WELDING IN THE WORLD, vol.53, 2009 (Journal Indexed in SCI)
- XXVI. **Laser welding of modified 12% Cr stainless steel: Strength, fatigue, toughness, microstructure and corrosion properties**
Taban E., Deleu E., Dhooge A., Kaluç E.
Materials and Design, vol.30, pp.1193-1200, 2009 (Journal Indexed in SCI)
- XXVII. **Plasma Arc Welding of Modified 12%Cr Stainless Steel**
TABAN E., DHOOGHE A., KALUÇ E.
MATERIALS AND MANUFACTURING PROCESSES, vol.24, no.6, pp.649-656, 2009 (Journal Indexed in SCI)
- XXVIII. **Evaluation of dissimilar welds between ferritic stainless steel modified 12% Cr and carbon steel S355**
Taban E., Deleu E., Dhooge A., Kaluç E.
Welding Journal (Miami, Fla), vol.87, 2008 (Journal Indexed in SCI)
- XXIX. **Joining of duplex stainless steel by plasma arc, TIG, and plasma arc+TIG welding processes**
TABAN E.
Materials and Manufacturing Processes, vol.23, no.8, pp.871-878, 2008 (Journal Indexed in SCI)
- XXX. **Submerged arc welding of thick ferritic martensitic 12Cr stainless steel with a variety of consumables**
Taban E., Deleu E., Dhooge A., Kaluç E.
Science and Technology of Welding and Joining, vol.13, pp.327-334, 2008 (Journal Indexed in SCI)
- XXXI. **Toughness and microstructural analysis of superduplex stainless steel joined by plasma arc welding**
TABAN E.
Journal of Materials Science, vol.43, no.12, pp.4309-4315, 2008 (Journal Indexed in SCI)
- XXXII. **Comparison between microstructure characteristics and joint performance of 5086-H32 aluminium alloy welded by MIG, TIG and friction stir welding processes**
Taban E., Kaluç E.
Kovove Materialy, vol.45, pp.241-248, 2007 (Journal Indexed in SCI)
- XXXIII. **Gas metal arc welding of modified X2CrNi2 ferritic stainless steel**
Taban E., Deleu E., Dhooge A., Kaluç E.
Kovove Materialy, vol.45, pp.67-74, 2007 (Journal Indexed in SCI Expanded)
- XXXIV. **Microstructural and mechanical properties of double-sided MIG, TIG and friction stir welded 5083-H321 aluminium alloy**
Taban E., Kaluç E.
Kovove Materialy, vol.44, pp.25-33, 2006 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Alüminyum ve Alüminyum Alaşımlarının Ark Kaynak Yöntemleri ile Birleştirilmesi**

- Kaluç E., Taban E.
Metal Dünyası, no.174, pp.130-162, 2007 (Other Refereed National Journals)
- II. **Yapısal Uygulamalar İçin Geliştirilen Modifiye 12 Cr Ferritik Paslanmaz Çeliğinin Tozaltı Kaynaklı Bağlantılarının Özellikleri**
Taban E., Kaluç E., Deleu E., Dhooge A.
Mühendis ve Makina, vol.48, no.573, pp.3-10, 2007 (Other Refereed National Journals)
- III. **Sürtünen Eleman ile Kaynak (FSW) Yöntemi Makinaları Bölüm 2.- Özel Geliştirilmiş FSW Makinaları**
Taban E., Kaluç E.
MakinaTEK, no.111, pp.68-73, 2007 (National Non-Refereed Journal)
- IV. **Microstructural Analysis and Structure-Property Relationship of SMAW Welded 12 Cr Stainless Steel**
Taban E., Deleu E., Dhooge A., Kaluç E.
Deformasyon Sac İşleme (International Forming and Sheet Metal Technologies), no.4, pp.60-64, 2007 (Other Refereed National Journals)
- V. **Sürtünen Eleman ile Kaynak (FSW) Yöntemi Makinaları Bölüm 1.- Alışılmış FSW Makinaları**
Taban E., Kaluç E.
MakinaTEK, no.110, pp.100-105, 2007 (Other Refereed National Journals)
- VI. **Alüminyum ve Alaşımlarının Plazma Ark Kaynağındaki Gelişmeler**
Kaluç E., Taban E.
Metal Dünyası, no.164, pp.104-112, 2007 (Other Refereed National Journals)
- VII. **Krom-Nikelli Paslanmaz Çelikler ve Modifiye Edilmiş Türleri**
Kaluç E., Taban E.
Metal Dünyası, no.163, pp.124-133, 2006 (Other Refereed National Journals)
- VIII. **Havacılık, Uzay, Taşıt ve Gemi Yapım Endüstrilerinde Kullanılan Sürtünen Eleman ile Birleştirme (FSW) Kaynak Yönteminin Esasları**
Taban E., Kaluç E.
MakinaTEK, no.12, pp.52-57, 2006 (Other Refereed National Journals)
- IX. **Havacılık, Uzay, Taşıt ve Gemi Yapım Endüstrilerinde Kullanılan Sürtünen Eleman ile Birleştirme (FSW) Kaynak Yönteminin Esasları**
Taban E., Kaluç E.
MakinaTek, no.112, pp.52-57, 2006 (Other Refereed National Journals)
- X. **Alüminyum ve Alüminyum Alaşımlarının Kaynağı İçin Kaynak Ağızlarının Hazırlanması- Bölüm 2**
Taban E., Kaluç E.
MakinaTek, Ağustos, 116- 121 (2006), no.111, pp.116-121, 2006 (Other Refereed National Journals)
- XI. **Alüminyum ve Alüminyum Alaşımlarının Kaynağı İçin Kaynak Ağızlarının Hazırlanması- Bölüm 1", MakinaTek, Temmuz, 106- 110 (2006).**
Kaluç E., Taban E.
MakinaTek, Temmuz, 106- 110 (2006), no.110, pp.106-110, 2006 (Other Refereed National Journals)
- XII. **Alüminyum ve Alüminyum Alaşımlarının TIG Kaynağı- Bölüm 2**
Taban E., Kaluç E.
MakinaTEK, no.102, pp.122-126, 2006 (Other Refereed National Journals)
- XIII. **Paslanmaz Çeliklerin Laser Kaynağı**
Taban E., Kaluç E.
Metal Dünyası, no.157, pp.96-103, 2006 (Other Refereed National Journals)
- XIV. **Alüminyum ve Alüminyum Alaşımlarının TIG Kaynağı- Bölüm 1**
Taban E., Kaluç E.
MakinaTEK, no.101, pp.118-124, 2006 (Other Refereed National Journals)
- XV. **Elektrocuruf Kaynağı ve Endüstriyel Uygulamaları**
Taban E., Kaluç E., Dhooge A.
Metal Dünyası, no.156, pp.100-106, 2006 (Other Refereed National Journals)
- XVI. **Termit Kaynağı ve Uygulama Alanları**
Kaluç E., Taban E.

- MakinaTEK, no.96, pp.116-121, 2005 (Other Refereed National Journals)
- XVII. **Doğalgaz Boru Hatlarında Kullanılan Polietilen Boruların Kaynağı- Bölüm 2: Alın ergitme ve ekstrüzyon Kaynağı**
Kaluç E., Taban E.
MakinaTEK, no.96, pp.118-124, 2005 (Other Refereed National Journals)
- XVIII. **Alüminyum ve Alüminyum Alaşımlarının MIG Kaynağı**
Kaluç E., Taban E.
Metal Dünyası, no.144, pp.130-141, 2005 (Other Refereed National Journals)
- XIX. **Doğalgaz Boru Hatlarında Kullanılan Polietilen Boruların Kaynağı- Bölüm 1: Elektro ergitme Kaynağı**
Kaluç E., Taban E.
MakinaTEK, no.96, pp.118-125, 2005 (Other Refereed National Journals)
- XX. **Alüminyum ve Alüminyum Alaşımlarının Kaynak Kabiliyeti**
Kaluç E., Taban E.
Metal Dünyası, no.143, pp.154-162, 2005 (Other Refereed National Journals)
- XXI. **Alüminyum ve Alüminyum Alaşımların Standard Gösterimleri**
Kaluç E., Taban E.
MakinaTEK, no.90, pp.178-185, 2005 (Other Refereed National Journals)
- XXII. **Alüminyum ve Alüminyum Alaşımları- Endüstriyel Uygulama Alanları**
Taban E., Kaluç E.
Metal Dünyası, no.141, pp.107-114, 2005 (Other Refereed National Journals)
- XXIII. **EN AW-5083-H321 Alüminyum Alaşımının MIG, TIG ve Sürtünen Eleman ile Birleştirme (FSW) Kaynaklı Bağlantılarının Mekanik ve Mikroyapısal Özellikleri**
Taban E., Kaluç E.
Mühendis ve Makina, vol.46, no.541, pp.40-51, 2005 (Other Refereed National Journals)
- XXIV. **Sürtünen Eleman ile Birleştirme (FSW) Kaynaklı EN AW-5083- EN AW-5086 Alüminyum Alaşımı Bağlantılarının Mekanik ve Mikroyapısal Özellikleri**
Taban E., Kaluç E.
Metal Dünyası, no.140, pp.84-90, 2005 (Other Refereed National Journals)
- XXV. **Katı Oksit Yakıt Pillerindeki Gelişmeler**
Taban E., Kaluç E.
Metal Dünyası, no.139, pp.95-101, 2004 (Other Refereed National Journals)
- XXVI. **Yakıt Pilleri ve Endüstriyel Uygulamaları**
Taban E., Kaluç E.
MakinaTEK, no.86, pp.120-127, 2004 (Other Refereed National Journals)
- XXVII. **Plazma Arkı ile Kaynak ve Endüstriyel Uygulamaları” Bölüm II**
Kaluç E., Taban E.
MakinaTEK, no.83, pp.97-101, 2004 (Other Refereed National Journals)
- XXVIII. **Sürtünen Eleman ile Birleştirme (FSW) Kaynaklı EN AW-5086 Alüminyum Alaşımı Bağlantılarının Mekanik ve Mikroyapısal Özellikleri**
Taban E., Kaluç E.
Metal Dünyası, no.138, pp.63-68, 2004 (Other Refereed National Journals)
- XXIX. **Sürtünen Eleman ile Birleştirme (FSW) Kaynaklı EN AW-5083 Alüminyum Alaşımı Bağlantılarının Mekanik ve Mikroyapısal Özellikleri**
Taban E., Kaluç E.
Metal Dünyası, no.137, pp.125-130, 2004 (Other Refereed National Journals)
- XXX. **Plazma Arkı ile Kaynak ve Endüstriyel Uygulamaları” Bölüm 1**
Kaluç E., Taban E.
MakinaTEK, no.82, pp.116-123, 2004 (Other Refereed National Journals)
- XXXI. **Alüminyum ve Alüminyum Alaşımlarının Sürtünen Eleman ile Birleştirme Kaynağında (FSW) Kaynak Bölgesinin Mikroyapısal Özellikleri**
Taban E., Kaluç E.

- Metal Dünyası, no.136, pp.131-140, 2004 (Other Refereed National Journals)
- XXXII. **Petrol ve Doğalgaz Boru Hatlarının Yapımında Kullanılan Süpermartenzitik Paslanmaz Çelikler ve Kaynak Edilebilirliği**
Taban E., Kaluç E.
Mühendis ve Makina, vol.45, no.536, pp.26-37, 2004 (Other Refereed National Journals)
- XXXIII. **Alüminyum ve Alüminyum Alaşımlarının Sürtünen Eleman ile Birleştirme (FSW) Kaynağı ve Endüstriyel Uygulamaları**
Taban E., Kaluç E.
Metal Dünyası, no.135, pp.79-84, 2004 (Other Refereed National Journals)
- XXXIV. **Laser Işını ile Kaynak Yöntemi**
Kaluç E., Taban E.
MakinaTEK, no.80, pp.76-85, 2004 (Other Refereed National Journals)
- XXXV. **Elektron Işın Kaynağındaki Gelişmeler**
Kaluç E., Taban E.
MakinaTek, no.6, pp.102-110, 2004 (Other Refereed National Journals)
- XXXVI. **Süpermartenzitik Paslanmaz Çelikler, Kaynak Kabiliyetleri ve Korozyon Davranışları**
Taban E., Kaluç E.
Metal Dünyası, no.133, pp.117-125, 2004 (Other Refereed National Journals)
- XXXVII. **Elektron Işın Kaynağındaki Gelişmeler**
Kaluç E., Taban E.
MakinaTEK, pp.102-110, 2004 (Other Refereed National Journals)
- XXXVIII. **"Petrol ve Doğalgaz Boru Hatlarının Yapımında Kullanılan Süpermartenzitik Paslanmaz Çelikler ve Kaynak Edilebilirliği**
Taban E., Kaluç E.
Metal Dünyası, vol.12, no.132, pp.77-83, 2004 (Other Refereed National Journals)

Books & Book Chapters

- I. **Paslanmaz Çelikler Geliştirilen Yeni Türleri ve Kaynak Edilebilirlikleri Erdinç KALUÇ Emel TABAN**
KALUÇ E., TABAN E.
TMMOB Makina Mühendisleri Odası, Ankara, 2007
- II. **SÜRTÜNEN ELEMAN İLE KAYNAK (FSW) YÖNTEMİ (SÜRTÜNME KARIŞTIRMA KAYNAĞI)**
Kaluç E., Taban E.
TMMOB Makine Mühendisleri Odası Yayınları, Ankara, 2007
- III. **Paslanmaz Çelikler, Geliştirilen Yeni Türleri ve Kaynak Edilebilirlikleri**
Kaluç E., Taban E.
TMMOB Makine Mühendisleri Odası Yayınları, Ankara, 2007
- IV. **İleri Kaynak Teknolojisi Ders Notları**
Kaluç E., Taban E.
Yıldız Fotokopi, Kocaeli, 2003

Refereed Congress / Symposium Publications in Proceedings

- I. **TIG (GTAW) Kaynak Yönteminde Son Gelişmeler ve Endüstriyel Uygulamaları**
Kaluç E., Taban E.
Kaynak Kongresi 11. Ulusal Kongre ve Sergisi, Ankara, Turkey, 15 - 16 November 2019, pp.53-63
- II. **Raylı Araç Fren Disklerinin Dökümünde Tretman Malzemesi Miktarının Mekanik Özellikler ve Havalandırma Sistem Tasarımının Soğutma Performansı Üzerine Etkilerinin İncelenmesi**
Er O., Kaluç E., Taban E., Öz Saraç U.

4. Uluslararası Raylı Sistemler Mühendisliği Sempozyumu (ISERSE), Karabük, Turkey, 10 - 12 October 2018, pp.99-110
- III. **SA 387 Gr 11 C1 2 13CrMo4 5 Yüksek Sıcaklık Dayanımlı Çeliğin Tekrarlı Isıl İşlem Koşullarında Dayanım Özelliklerinin Değişimi**
Barbaros G., TABAN E.
Kaynak Kongresi IX. Ulusal Kongre ve Sergisi, Ankara, Turkey, 20 - 21 November 2015, pp.291-299
- IV. **Alüminyum Çelik CMT Kaynaklı Bağlantılarının Özellikleri ve Optimizasyonu**
Erdem Ü., TABAN E.
7. Alüminyum Sempozyumu, İstanbul, Turkey, 7 - 08 October 2015, pp.601-610
- V. **Properties and Optimization of Dissimilar Aluminum Steel CMT Welds**
Erdem Ü., TABAN E.
Annual Assembly of International Institute of Welding Commission II Meeting, Helsinki, Finland, 29 June - 03 July 2015
- VI. **Similar and Dissimilar Friction Stir and Cold Metal Transfer Welds of 5083 H111 and 6082 T651 aluminum alloys**
GÜNGÖR B., TABAN E., KALUÇ E., ŞIK A.
IIW 2015 ANNUAL MEETING, İstanbul, Turkey, 2 - 05 March 2015
- VII. **A New Potential for Welded Structures in Modified X2CrNi12: Characterization of Dissimilar Arc Weld with S355 Steel**
Taban E., Kaluç E., Dhooge A., Deleu E.
Fabrication and Economy of Welded Structures, Miskolc, Hungary, 24 - 26 April 2008, vol.1, pp.511-518
- VIII. **Study of the Weld Zone of Friction Welded C45/1.3344PM Dissimilar Steel Joints**
Kaluç E., Taban E.
Design, Fabrication and Economy of Welded Structures Design, Fabrication and Economy of Welded Structures, Miskolc, Hungary, 24 - 26 April 2008, vol.1, pp.469-475
- IX. **Mechanical, Microstructural and Fracture Properties of MIG, TIG and Friction Stir Welded 5086 Aluminium Alloy**
Taban E., Kaluç E.
11th. International Denizli Materials Symposium 2006, Proceedings Book, Denizli, 922- 927, Türkiye, 2006., Denizli, Turkey, 25 October 2006, pp.920-927
- X. **Investigation on Mechanical and Microstructural Properties of Welded X2CrNi12 Ferritic Stainless Steel**
Taban E., Deleu E., Dhhoge A., Kaluç E.
DVS- Schweißen und Schneiden 2006 , Aachen, Germany, 20 - 22 September 2006, pp.74-79
- XI. **MECHANICAL, MICROSTRUCTURAL AND TOUGHNESS PROPERTIES OF WELDED X2CrNi12 FERRITIC STAINLESS STEEL**
Taban E., Deleu E., Dhooge A., Kaluç E.
11. International Materials Symposium, Denizli, Turkey, 19 - 21 April 2006, pp.918-921
- XII. **Investigation on Mechanical and Microstructural Properties of TIG, MIG and FS Welded 5083-5086 Aluminium Alloys**
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- XIII. **Süpermartenzitik Paslanmaz Çelikler, Kaynak Kabiliyetleri ve Korozyon Davranışları**
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- XIV. **Petrol ve Doğalgaz Boru Hatlarının Yapımında Kullanılan Süpermartenzitik Paslanmaz Çelikler ve Kaynağı**
Taban E., Kaluç E.
Kaynak Teknolojisi IV. Ulusal Kongresi,, Kocaeli, Turkey, 24 - 25 October 2003, no.339, pp.257-267

Supported Projects

Taban E., Toksöz Y., TUBITAK Project, Sıcak Preslenmiş ve 980 MPa Çift Fazlı Sacların Kaynağı için Fiber Lazerli Punta Kaynağı Tabancasının Hücresinin Prosesinin Geliştirilmesi ve Lazer Spot Kaynağı Parametre Seti Oluşturulması, 2019 - 2021

TABAN E., Project Supported by Higher Education Institutions, ALÜMİNYUM ALAŞIMININ SÜRTÜNME KARIŞTIRMA NOKTA KAYNAĞI VE LAZER IŞIN KAYNAĞI İLE YAPILAN BAĞLANTILARINI MEKANİK VE MİKRO YAPISAL ÖZELLİKLERİNİN İNCELENMESİ VE PROSES PARAMETRELERİNİN OPTİMİZASYONU, 2015 - 2016

KALUÇ E., TABAN E., Industrial Thesis Project, Raylı Taşıtlarda Kullanılan Fren Disklerinin Vermiküler Grafitli Dökme Demir Olarak Üretimi ile Mekanik Özelliklerinin İyileştirilmesi, 2014 - 2016

Taban E., TUBITAK Project, Alüminyum alaşımı ile galvanize çeliğin soğuk metal transferi (CMT) yöntemi ile birleştirilmesinde mekanik ve mikroyapısal özelliklerinin incelenmesi ve parametrelerin optimizasyonu, 2015 - 2015

Taban E., Kaluç E., Company, Petrokimya Endüstrisinde Kullanılan Paslanmaz Çelik Boruların Kaynak Özelliklerinin Geliştirilmesi, 2011 - 2013

Taban E., Project Supported by Private Organizations in Other Countries, Joining Dissimilar Materials: Understanding Aluminum to ferrous alloy interfaces during joining and thermomechanical conditioning, 2008 - 2009

Taban E., Dhooge A., Universities of Other Countries Supported Project, Stainless steel type X2CrNi12 for structural applications- weldability, welding technology and properties of welded joints, 2005 - 2006

Activities in Scientific Journals

Jiensi- Journal of International Engineering and Natural Science, Editor, 2021 - Continues

Metal Dünyası- Kaynak Teknolojisi Editörü, Editor, 2019 - Continues

Memberships / Tasks in Scientific Organizations

Türk Kaynak Tekn. Akademisi, Member of Science Committee, 2014 - Continues

Turkey Delegate of International Institute of Welding Technical Commission II (Arc Welding), Member of Science Committee, 2013 - Continues

Turkey Delegate of International Institute of Welding Technical Commission IV (High energy welding processes), Member of Science Committee, 2013 - Continues

Turkey Delegate of International Institute of Welding Technical Commission IX (Weldability and Welding metallurgy), Member of Science Committee, 2013 - Continues

Türk Standartları Enstitüsü Kaynak Komisyonu, Member, 2012 - Continues

Authorized National Body of Turkey- International Institute of Welding, Board Member, 2011 - Continues

German Welding Society, Member, 2005 - Continues

American Welding Society, Member, 2004 - Continues

Scientific Refereeing

WELDING IN THE WORLD, Journal Indexed in SCI-E, August 2021

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, Journal Indexed in SCI-E, July 2021

JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, Journal Indexed in SCI-E, July 2021

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, Journal Indexed in SCI-E, July 2021

FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES, Journal Indexed in SCI-E, July 2021

JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, Journal Indexed in SCI-E, July 2021

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, Journal Indexed in SCI-E, July 2021

JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, Journal Indexed in SCI-E, July 2021

Project Supported by Higher Education Institutions, BAP Research Project, Erciyes University, Turkey, June 2021

materials research, Journal Indexed in ESCI, May 2021

Materials Research, Journal Indexed in ESCI, May 2021

ECS Journal of Solid State Science and Technology, Other Indexed Journal, May 2021

TUBITAK Project, 1002 - Quick Support Program, Kocaeli University, Turkey, May 2021

TUBITAK Project, 1002 - Quick Support Program, Kocaeli University, Turkey, May 2021

Project Supported by Other Official Institutions, Kocaeli University, Turkey, May 2021

Project Supported by Higher Education Institutions, BAP Research Project, Suleyman Demirel University, Turkey, May 2021

Metallography, Microstructure and Analysis, Other Indexed Journal, April 2021

Advances in Industrial and Manufacturing Engineering, Other Indexed Journal, April 2021

JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, Journal Indexed in SCI-E, April 2021

WELDING IN THE WORLD, Journal Indexed in SCI-E, April 2021

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, Kocaeli University, Turkey, April 2021

APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, Journal Indexed in SCI-E, March 2021

Advances in Industrial and Manufacturing Engineering, Other Indexed Journal, March 2021

TUBITAK Project, 1002 - Quick Support Program, Kocaeli University, Turkey, March 2021

TUBITAK Project, 1011 - International Scientific Research Projects Participation Program (UBAP), Kocaeli University, Turkey, March 2021

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, Journal Indexed in SCI-E, February 2021

JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, Journal Indexed in SCI-E, February 2021

Metal Dünyası, Other Journals, February 2021

Metal Dünyası, Other Journals, January 2021

TUBITAK Project, 1002 - Quick Support Program, Kocaeli University, Turkey, January 2021

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, Journal Indexed in SCI-E, December 2020

TUBITAK Project, 1002 - Quick Support Program, Kocaeli University, Turkey, December 2020

JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, Journal Indexed in SCI-E, November 2020

Project Supported by Other Official Institutions, Kocaeli University, Turkey, November 2020

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, Kocaeli University, Turkey, October 2020

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, Kocaeli University, Turkey, October 2020

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, Journal Indexed in SCI-E, September 2020

MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, SCI Journal, August 2020

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, SCI Journal, July 2020

TUBITAK Project, 1505 - University-Industry Cooperation Support Program, Kocaeli University, Turkey, July 2020

DEFENCE TECHNOLOGY, Journal Indexed in SCI-E, January 2020

DEFENCE TECHNOLOGY, Journal Indexed in SCI-E, January 2020

JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, Journal Indexed in SCI-E, January 2020

CORROSION SCIENCE, SCI Journal, December 2019

DEFENCE TECHNOLOGY, Journal Indexed in SCI-E, December 2019

DEFENCE TECHNOLOGY, Journal Indexed in SCI-E, December 2019

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Kocaeli University, Turkey, December 2019

Project Supported by Higher Education Institutions, BAP Research Project, İstanbul University-Cerrahpaşa, Turkey, December 2019

metallography Microstructure and Analysis, Other Indexed Journal, November 2019
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, SCI Journal, November 2019
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, Journal Indexed in SCI-E, October 2019
CORROSION, Journal Indexed in SCI-E, October 2019
TUBITAK Project, 1501 - Industry R & D Projects Support Program, O, Turkey, August 2019
JOURNAL OF ALLOYS AND COMPOUNDS, Journal Indexed in SCI-E, June 2019
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, Journal Indexed in SCI-E, May 2019
KOVOVE MATERIALY-METALLIC MATERIALS, Journal Indexed in SCI-E, May 2019
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, Journal Indexed in SCI-E, December 2018

Scientific Consultations

Toyotetsu, Ermaksan, Project Consultancy, Kocaeli University, Mühendislik Fakültesi, Makina Mühendisliği, Turkey, 2019 - Continues

Edit Congress and Symposium Activities

Annual Assembly and Conference of International Institute of Welding, Working Group, Helsinki, Finland, 2015
Annual Assembly and Conference of International Institute of Welding, Working Group, Seoul, South Korea, 2014
Intermediate Meetings of Commissions II and IX of International Institute of Welding, Working Group, Berlin, Germany, 2014
AWS Professional Program, 2013 Fabtech Show, Working Group, Illinois, United States Of America, 2013
Intermediate Meetings of Commissions II and IX of International Institute of Welding, Working Group, Graz, Austria, 2013
Intermediate Meetings of Technical Commissions II and IX of International Institute of Welding, Working Group, London, United Kingdom, 2012
IIW-IIS International Conference on Welded Structures- Design, Fabrication and Economy, Working Group, Budapest, Hungary, 2008
Schweissen und Schneiden, DVS GST 2006, Working Group, Aachen, Germany, 2006
Schweissen und Schneiden, DVS GST 2005, Working Group, Essen, Germany, 2005

Citations

Total Citations (WOS):763

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Invited Talks

Recent Trends in Welding and Weldability: Stainless Steels and Beyond, International Workshop on Emerging Trends in Mechanical, Aerospace and Robotics Engineering, Workshop, As Eminent Speaker invited by Vellore Institute of Technology, India, July 2021

Awards

Taban E., Plos Biology Dergisinde Yayınlanan Makaleye Göre Dünyanın En Etkili (Yüzde 2 Dilimde) Bilim İnsanları Listesinde Yer Alma (<https://journals.plos.org/plosbiology/article?id=10.1371%2Fjournal.pbio.3000918>), Plos Biology Dergisi, December 2020

Taban E., Prof. Dr. Baki Komsuođlu Bilim Teşvik Ödülü (Teknoloji alanı), Kocaeli Üniversitesi, April 2014

Taban E., Mc-Kay Helm Award, American Welding Society- Amerikan Kaynak Cemiyeti, November 2013

Taban E., Kaluç E., "McKay Helm Award, American Welding Society, For The Best Contribution To The Advancement Of Knowledge Of Stainless Steel Welding, Involving The Use, Development And Testing Of These Materials As Represented By The Article "Effect Of Consumable On The Properties Of GMA Welded EN 1.4003 Type Stainless Steel" Printed In Aug 2012 Issue Of Welding Journal. ", American Welding Society (Aws)-, November 2013