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Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Konstrüksiyon Ve İmalat (Dr), Turkey 2002 - 2006

Postgraduate, Sivas Cumhuriyet University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), Turkey 1995 - 1998

Undergraduate, Sivas Cumhuriyet University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 1990 - 1994

Dissertations

Doctorate, Galvanizli ve ostenitik paslanmaz çelik sacların nokta kaynaklı bağlantılarının yorulma dayanımlarının araştırılması, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Konstrüksiyon Ve İmalat (Dr), 2006

Postgraduate, Nokta direnç kaynağında sıcaklık dağılımının incelenmesi, Sivas Cumhuriyet Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), 1998

Research Areas

Mechanical Engineering, Construction and Manufacturing, Welding Methods, Material

Published journal articles indexed by SCI, SSCI, and AHCI

- Prediction of wear properties of CaO and MgO doped stabilized zirconia ceramics produced with different pressing methods using adaptive neuro fuzzy inference systems Vorhersage der Verschleißigenschaften von CaO- und MgO-dotierten stabilisierten Zirkonoxidkeramiken, die mit verschiedenen Pressmethoden unter Verwendung adaptiver Neuro-Fuzzy-Inferenzsysteme hergestellt wurden**
YÜKSEK A. G., BOYRAZ T., AKKUŞ A.
Materialwissenschaft und Werkstofftechnik, vol.55, no.9, pp.1227-1237, 2024 (SCI-Expanded)
- Prediction of Wear Properties of CaO and MgO Doped Stabilized Zirconia Ceramics with Artificial Neural Networks**
YÜKSEK A. G., BOYRAZ T., AKKUŞ A.
Transactions of the Indian Ceramic Society, vol.83, no.3, pp.188-198, 2024 (SCI-Expanded)
- Investigation on the mechanical properties of X42N, grade A and grade B steel pipes joined by shielded metal arc and TIG welding Örtülü metal ark ve TIG kaynağı ile birleştirilen X42N, kalite A ve kalite B sınıfı çelik boruların mekanik özelliklerinin incelenmesi**
Özarpa C., AKKUŞ A., Kınacı B. F.

Journal of the Faculty of Engineering and Architecture of Gazi University, vol.38, no.2, pp.963-974, 2023 (SCI-Expanded)

- IV. **Investigation of wear properties of mullite and aluminium titanate added porcelain ceramics**
Boyras T., AKKUŞ A.
JOURNAL OF CERAMIC PROCESSING RESEARCH, vol.22, no.2, pp.226-231, 2021 (SCI-Expanded)
- V. **An Experimental Study on Comparison of Wear Properties of Cast Irons with Compacted Graphite and Spheroidal Graphite**
AKKUŞ A.
TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS, vol.72, no.9, pp.2257-2262, 2019 (SCI-Expanded)
- VI. **Fabrication and characterization of aluminium titanate and mullite added Porcelain ceramics**
AKKUŞ A., BOYRAZ T.
JOURNAL OF CERAMIC PROCESSING RESEARCH, vol.20, no.1, pp.54-58, 2019 (SCI-Expanded)
- VII. **The investigation of wear properties of different hard filling welding electrodes used in repair welding**
AKKUŞ A.
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.32, no.10, pp.4821-4827, 2018 (SCI-Expanded)
- VIII. **Investigation of wear properties of CaO, MgO added stabilized zirconia ceramics produced by different pressing methods**
AKKUŞ A., BOYRAZ T.
JOURNAL OF CERAMIC PROCESSING RESEARCH, vol.19, no.3, pp.249-252, 2018 (SCI-Expanded)
- IX. **NUGGET FORMATION EFFECTS IN RESISTANCE SPOT WELDED DIFFERENT STEEL SHEETS**
AKKUŞ A.
TRANSACTIONS OF FAMENA, vol.41, no.4, pp.71-76, 2017 (SCI-Expanded)
- X. **Temperature distribution study in resistance spot welding**
Akkus A.
JOURNAL OF SCIENTIFIC & INDUSTRIAL RESEARCH, vol.68, no.3, pp.199-202, 2009 (SCI-Expanded)
- XI. **Effect of welding nugget diameter on the fatigue strength of the resistance spot welded joints of different steel sheets**
Vural M., Akkus A., Eryuerek B.
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.176, pp.127-132, 2006 (SCI-Expanded)
- XII. **The FEM analysis of the behavior of a welded column-joint under seismic loading**
Yalcin H., Vural M., Akkus A.
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.164, pp.1269-1276, 2005 (SCI-Expanded)
- XIII. **On the resistance spot weldability of galvanized interstitial free steel sheets with austenitic stainless steel sheets**
Vural M., Akkus A.
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.153, pp.1-6, 2004 (SCI-Expanded)

Articles Published in Other Journals

- I. **Prediction of Wear Properties of Experimental Produced Porcelain Ceramics Using Artificial Neural Networks (ANN)**
Yüksek A. G., Boyraz T., Akkuş A.
Sivas Cumhuriyet Üniversitesi Mühendislik Fakültesi Dergisi, vol.1, no.2, pp.66-74, 2023 (Peer-Reviewed Journal)
- II. **Regression Modelling to Study Wear Properties of Experimental Produced Porcelain Ceramics**
YÜKSEK A. G., BOYRAZ T., AKKUŞ A.
Teknik Meslek Yüksekokulları Akademik Araştırma Dergisi, vol.2, no.2, 2023 (Peer-Reviewed Journal)
- III. **The effect of mullite addition on wear properties of titania doped zirconia ceramics**
HAFIZOĞLU M. A., BOYRAZ T., AKKUŞ A.
Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, vol.12, no.1, pp.43-50, 2022 (Peer-Reviewed Journal)

- IV. **Fabrication and Characterization of Mullite Reinforced CeO₂ Added ZrO₂ Ceramics**
HAFIZOĞLU M. A., AKKUŞ A., BOYRAZ T.
Osmaniye Korkut Ata Üniversitesi Fen Bilimleri Enstitüsü Dergisi (Online), vol.22, no.5, pp.262-274, 2022 (Peer-Reviewed Journal)
- V. **The Effect of Mullite Addition on Wear Properties of SiO₂ Doped ZrO₂ Ceramics**
HAFIZOĞLU M. A., BOYRAZ T., AKKUŞ A.
CUMHURİYET SCIENCE JOURNAL, vol.43, no.2, pp.257-265, 2022 (Peer-Reviewed Journal)
- VI. **Fabrication and Characterization of Mullite Reinforced Y₂O₃ Added ZrO₂ Ceramics**
HAFIZOĞLU M. A., BOYRAZ T., AKKUŞ A.
Open Journal of Nano, vol.6, no.2, pp.28-40, 2021 (Peer-Reviewed Journal)
- VII. **Investigation of the Effect of Protective Gas Composition on Welding Quality in Mag Welding by Tensile Test**
ŞİMŞEK E. T., AKKUŞ A.
Avrupa Bilim ve Teknoloji Dergisi, no.32, pp.531-535, 2021 (Peer-Reviewed Journal)
- VIII. **Fabrication and Characterization of Mullite Reinforced CaO Added ZrO₂ Ceramics**
HAFIZOĞLU M. A., AKKUŞ A., BOYRAZ T.
European Journal of Science and Technology, no.28, pp.1137-1143, 2021 (Peer-Reviewed Journal)
- IX. **Fabrication and Characterization of Mullite Reinforced MgO Added ZrO₂ Ceramics**
HAFIZOĞLU M. A., BOYRAZ T., AKKUŞ A.
European Journal of Science and Technology, no.28, 2021 (Peer-Reviewed Journal)
- X. **The Investigation of Mechanical Properties of the Flash Welded Different Steel Bars**
AKKUŞ A.
Cumhuriyet Science Journal, vol.38, no.4, pp.165-175, 2017 (Peer-Reviewed Journal)
- XI. **The Investigation of Mechanical Behaviors of Poly Methyl Methacrylate PMMA with the Addition of Bone Ash Hydroxyapatite and Keratin**
AKKUŞ A., Emre G.
Advances in Materials, vol.4, no.1, pp.16-19, 2015 (Peer-Reviewed Journal)
- XII. **Research on Wear Rate and Mechanical Properties of Brake Sabots Shoes Used in Railway Rolling Stocks**
AKKUŞ A., Mukadder Y.
International Journal of Applied Science and Technology, vol.4, no.7, pp.76-84, 2014 (Peer-Reviewed Journal)
- XIII. **Nokta kaynaklı farklı çelik sacların yorulma dayanımlarının deneysel analizi**
AKKUŞ A., VURAL M.
İTÜ dergisi, vol.6, no.1, pp.37-46, 2007 (Peer-Reviewed Journal)
- XIV. **Kaplanmış çelik sacların nokta kaynaklı bağlantılarının ultrasonik testi ve kaynak parametrelerinin optimizasyonu**
VURAL M., AKKUŞ A.
Mühendis ve Makina, vol.47, no.563, pp.25-34, 2006 (Peer-Reviewed Journal)
- XV. **The ultrasonic testing of the spot welded different steel sheets**
VURAL M., AKKUŞ A.
Journal of Achievements in Materials and Manufacturing Engineering, vol.18, pp.247-250, 2006 (Scopus)

Books & Book Chapters

- I. **PREDICTIVE MODELLING OF WEAR PROPERTIES OF CAO AND MGO DOPED STABILIZED ZIRCONIA CERAMICS WITH DIFFERENT MACHINE LEARNING ALGORITHMS**
Yüksek A. G., Boyraz T., Akkuş A.
in: Modern Research in Engineering Sciences-2024, Halil İbrahim Kurt, Duygu Kavak, Editor, Livre de Lyon, Lyon, pp.1-33, 2024

Refereed Congress / Symposium Publications in Proceedings

- I. **Investigation of Wear Properties of Mullite-Alumina-Zirconia Ceramics**
HAFIZOĞLU M. A., BOYRAZ T., AKKUŞ A.
Ege 10th International Conference on Applied Sciences, İzmir, Turkey, 20 - 22 December 2023
- II. **Prediction of Wear Properties of CaO and MgO Doped Stabilized Zirconia Ceramics With Gaussian Process Regression (GPR)**
YÜKSEK A. G., BOYRAZ T., KARTAL A., AKKUŞ A.
12th International Congress On Engineering Architecture and Design, İstanbul, Turkey, 23 - 25 December 2023, vol.1
- III. **Prediction of Wear Properties of Experimental Produced Porcelain Ceramics Using Support Vector Machine (SVM)**
BOYRAZ T., YÜKSEK A. G., TOPÇU A., AKKUŞ A.
V. Baskent International Conference on Multidisciplinary Studies, Ankara, Turkey, 21 - 22 December 2023
- IV. **Investigation of Wear Properties of Mullite-Magnesia-Zirconia Ceramics**
HAFIZOĞLU M. A., AKKUŞ A., BOYRAZ T.
12. EUROASIA(International Congress on Scientific Research and Recent Trends-XII), Ankara, Turkey, 29 - 30 November 2023
- V. **Investigation of Wear Properties of Mullite-Yttria-Zirconia Ceramics**
HAFIZOĞLU M. A., BOYRAZ T., AKKUŞ A.
12. EUROASIA(International Congress on Scientific Research and Recent Trends-XII), Ankara, Turkey, 29 - 30 November 2023
- VI. **Investigation of Wear Properties of Mullite-Ceria-Zirconia Ceramics**
HAFIZOĞLU M. A., AKKUŞ A., BOYRAZ T.
V. International Cappadocia Scientific Research Congress, Nevşehir, Turkey, 5 - 07 November 2023
- VII. **INVESTIGATION OF THE EFFECT OF PROTECTIVE GAS COMPOSITION ON WELDING QUALITY IN MAGWELDING BY NOTCH IMPACT TEST**
ŞİMŞEK E. T., AKKUŞ A.
8. ULUSLARARASI MÜHENDİSLİK MİMARLIK VE TASARIM KONGRESİ, Turkey, 6 - 07 December 2021
- VIII. **Fabrication, Characterization and Wear Properties of Mullite Reinforced Silica-Doped Zirconia Ceramic Composites**
HAFIZOĞLU M. A., BOYRAZ T., AKKUŞ A.
4. International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology (IMSMATEC'21), Nevşehir, Turkey, 28 - 30 May 2021, pp.175-180
- IX. **Fabrication, Characterization and Wear Properties of Mullite Reinforced Al₂O₃-Doped ZrO₂ Ceramic Composites**
Hafizoğlu M. A., Akkuş A., Boyraz T.
1nd. Global Conference on Engineering Research (GLOBECER'21), Balkesir, Turkey, 2 - 05 June 2021, pp.673-682
- X. **The Investigation of Wear Properties on Compact Graphite Cast Iron (CGI)**
AKKUŞ A., HAFIZOĞLU M. A.
International Conference on Innovative Engineering Applications (CIEA), 20 - 22 September 2018
- XI. **Desinging and Manufacturing of a Prototype 3 Axis CNC Milling Machine**
AKKUŞ A., KARABEY Ö.
International Conference on Innovative Engineering Applications (CIEA), 20 - 22 September 2018
- XII. **Wear resistance of Polymethyl Methacrylate (PMMA) with the Addition of Bone Ash, Hydroxylapatite and Keratin**
Emre G., Akkus A., Karamis M. B.
9th International Conference on Tribology (Balkantrib), Turkey, 13 - 15 September 2017, vol.295
- XIII. **Research on Wear Rate of Brake Sabots (Shoes) Used in Railway Rolling Stocks**
AKKUŞ A.
9. International Conference on Tribology (BalkanTRib'17), 13 - 15 September 2017

- XIV. **Wear resistance of Polymethyl Methacrylate (PMMA) with the Addition of Bone Ash, Hydroxylapatite and Keratin**
GÖRGÜN E., AKKUŞ A., KARAMIŞ M. B.
9. International Conference on Tribology (BalkanTRib'17), 13 - 15 September 2017
- XV. **The effect of material combination on the nugget formation in resistance spot welding**
AKKUŞ A.
IMSTEC 2016, International Conference on Materials Science and Technology in Cappadocia, 6 - 08 April 2016
- XVI. **Effect of coated welding electrode compositions on the weld microstructures of arc welded dissimilar steels**
VURAL M., AKKUŞ A.
CAM3S, 6 - 09 December 2005
- XVII. **Siyah beyaz kaynağında örtülü elektrod türünün kaynak metalinin içyapısına etkisi**
anık s., VURAL M., AKKUŞ A.
Kaynak Teknolojisi 5. Ulusal Kongresi, Turkey, 11 - 12 November 2005
- XVIII. **Kaplanmış çelik sacların nokta kaynaklı bağlantılarının ultrasonik testi ve kaynak parametrelerinin optimizasyonu**
VURAL M., AKKUŞ A.
Kaynak Teknolojisi 5. Ulusal Kongresi, Turkey, 11 November - 12 December 2005
- XIX. **Kaynak Ağız Formunun ve Parça Kalınlığının Distorsiyona Etkisinin Sonlu Elemanlar Yöntemiyle Analizi**
VURAL M., AKKUŞ A.
Kaynak Teknolojisi IV. Ulusal Kongresi ve Sergisi, Turkey, 24 - 25 October 2003
- XX. **Nokta Kaynaklı Galvanizli YDDA Çelik Sacların Statik ve Dinamik Dayanımı Üzerine Çekirdek Çapının Etkisi**
AKKUŞ A., VURAL M.
Kaynak Teknolojisi IV. Ulusal Kongresi ve Sergisi, Turkey, 24 - 25 October 2003
- XXI. **Nokta Kaynaklı Çelik Saclarıda Kaynak Bağlantılarının Yorulma Dayanımının Deneysel Olarak İncelenmesi**
AKKUŞ A., VURAL M.
Malzeme Bilimi ve Üretim Yöntemleri Sempozyumu, Turkey, 17 - 19 October 2003
- XXII. **An Experimental Investigation on the Fatigue Strength of the Spot Welded Galvanized Steel Austenitic Stainless Steel Sheets**
AKKUŞ A., VURAL M.
6th Biennial Conference on Engineering System Design And Analysis, The American Society of Mechanical Engineers, 8 - 11 July 2002
- XXIII. **Alevle Kesmede Kesme Parametrelerinin Yüzey Kalitesine Etkisi**
VURAL M., AKKUŞ A.
Kaynak Teknolojisi 3. Ulusal Kongresi, Turkey, 19 - 20 October 2001
- XXIV. **Plazma İle Yüzey Kaplama**
ÇİMEN M. Ş., AKKUŞ A.
Kaynak Teknolojisi 1. Ulusal Kongresi, Turkey, 13 - 15 November 1997

Metrics

Publication: 53

Citation (WoS): 136

Citation (Scopus): 153

H-Index (WoS): 4

H-Index (Scopus): 3