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Publons / Web Of Science ResearcherID: AAZ-9118-2020

ScopusID: 57190855151

Yoksis Researcher ID: 4295

Advising Theses

GÜRBÜZ R., Effect of build direction on crack growth behavior of Ti6Al4V alloy manufactured by electron beam melting, Postgraduate, F.ÇALIK(Student), 2022

GÜRBÜZ R., The influence of manufacturing defects on structural performance of composite overwrapped pressure vessels, Postgraduate, K.YURDAKUL(Student), 2022

GÜRBÜZ R., Effect of heat treatment parameters on the q-factor of FE-NI superalloys, Postgraduate, A.EMRE(Student), 2022

GÜRBÜZ R., Fatigue behavior of welded API 5L X70 pipeline steel, Postgraduate, Ş.Özlem(Student), 2020

GÜRBÜZ R., The effects of chromic acid anodizing on fatigue behavior of (AMS4050) 7050 T7451 aluminum alloy, Postgraduate, Ç.İLHAN(Student), 2019

GÜRBÜZ R., Effect of hydrogen on fatigue behavior of a cadmium coated high strength steel, Postgraduate, Ü.Başak(Student), 2019

GÜRBÜZ R., The effects of heat treatment on microstructure, hardness and fatigue behavior of (AMS5659) 15-5 precipitation hardenable stainless steel, Postgraduate, Ş.GÖREN(Student), 2018

GÜRBÜZ R., TOPKAYA Y. A., Solvent extraction of scandium from pregnant leach solution of nickel laterites, Postgraduate, E.FERİZOĞLU(Student), 2017

YURTIŞIK K., GÜRBÜZ R., AN INVESTIGATION ON FATIGUE CRACK PROPAGATION IN GAS METAL AND HYBRID PLASMA-GAS METAL ARC WELDMENTS OF AA5083-H111, Postgraduate, K.OKAN(Student), 2015

ÖGEL B., GÜRBÜZ R., Determination of fracture and fatigue behaviours of 4340 steel, Postgraduate, G.ŞEN(Student), 2015

GÜRBÜZ R., Fracture and fatigue crack growth characterization of conventional and head hardened railway rail steels, Postgraduate, A.MOTAMENI(Student), 2014

GÜRBÜZ R., Kinetics and microstructural analysis of fatigue fracture progress in weld joints of duplex stainless steel grade 2205, Doctorate, K.YURTIŞIK(Student), 2013

GÜRBÜZ R., Mode II fatigue crack growth behavior and mode II fracture toughness of 7050 aluminum alloy in two orientations, Postgraduate, E.YURTOĞLU(Student), 2013

GÜRBÜZ R., Mode II fatigue crack growth behavior and mode II fracture toughness of 7050 aluminium alloy in two orientations, Postgraduate, M.Ender(Student), 2013

KAYRAN A., GÜRBÜZ R., Determination of stress intensity factors in cracked panels reinforced with riveted stiffeners, Postgraduate, M.BURAK(Student), 2012

GÜRBÜZ R., Evaluation of effect of fillet rolling process on the fatigue performance of a diesel engine crankshaft, Doctorate, G.ÇEVİK(Student), 2012

GÜR C. H., GÜRBÜZ R., Microstructural and mechanical characterization of duplex stainless steel grade 2205 joined by

hybrid plasma and gas metal arc welding, Postgraduate, B.TOLUNGÜÇ(Student), 2012

BATIGÜN C., GÜRBÜZ R., Microstructural and mechanical characterization of metal active gas welded joint between cast iron and low carbon steel, Postgraduate, M.TOLGA(Student), 2011

BATIGÜN C., GÜRBÜZ R., Effect of welding parameters on the hot cracking behavior of 7039 aluminum-zinc alloy, Postgraduate, M.AKKUŞ(Student), 2010

GÜRBÜZ R., Fatigue crack growth behaviour of AA6013 aluminum alloy at different aging conditions, Postgraduate, A.EGEMEN(Student), 2006

GÜRBÜZ R., Effect of retrogression and reaging heat treatment on corrosion fatigue crack growth behavior of AA7050 alloy, Postgraduate, N.AKGÜN(Student), 2004

GÜRBÜZ R., Effect of temperature on fatigue properties of DIN 35 NiCrMoV 12 5 steel, Postgraduate, O.UMUR(Student), 2003

ÖGEL B., GÜRBÜZ R., A study on flexural strength of layered al-sic composites produced by powder metallurgy methods, Postgraduate, S.Tirkeş(Student), 2002

GÜRBÜZ R., Study of salt-water cracking behavior of 7050 T73651 aluminum alloy through slow strain rate testing under potentiostatic control., Postgraduate, E.KUŞ(Student), 2002

ÖGEL B., GÜRBÜZ R., A Study on flexural strength of layered Al-SiCp composites produced by powder metallurgy methods, Postgraduate, S.TİRKEŞ(Student), 2002

ÖGEL B., GÜRBÜZ R., Hot pressing studies in Al-Cu-Mg-SiC system, Postgraduate, F.MUAZZEZ(Student), 2000

ÖGEL B., GÜRBÜZ R., Mechanical properties of PM Al-Sic composites produced by conventional hot-pressing method, Postgraduate, G.Kaya(Student), 1999

GÜRBÜZ R., Mechanical properties of PM Al-Sic compasides produced by conventional hot-pressing method, Postgraduate, G.KAYA(Student), 1999

GÜRBÜZ R., The Fracture behaviour of fiber reinforced acrylic composites, Postgraduate, E.ATASAV(Student), 1998

GÜRBÜZ R., Impact response of fiber reinforced composite pipes, Postgraduate, Ş.Erhan(Student), 1997

GÜRBÜZ R., Effect of aging on the crack growth behavior of 7475 aluminium alloy, Postgraduate, S.ONUR(Student), 1997

GÜRBÜZ R., Effect of aging on the fatigue crack growth behaviour of 7475 aluminium alloy, Postgraduate, S.Enis(Student), 1997

GÜRBÜZ R., Effect of loading spectrum on the fatigue crack growth kinetics of an Al-Zn-Mg-Cu alloy, Postgraduate, Ç.DÜNDAR(Student), 1995

GÜRBÜZ R., The effect of stress ratio on fatigue crack growth kinetics of AISI 4340 steel, Postgraduate, Ş.ÇADIRCI(Student), 1995

GÜRBÜZ R., Effect of copper on the fatigue crack growth behaviour of ductile cast irons, Postgraduate, A.Hakan(Student), 1994

GÜRBÜZ R., Effect of copper on the fatigue crack growth behavior of ductile cast irons, Postgraduate, A.HAKAN(Student), 1994

GÜRBÜZ R., Effect of aging on the fatigue crack kinetics of Al-Zn-Mg-Cu alloy, Postgraduate, P.S.(Student), 1993

GÜRBÜZ R., Effect of aging on the fatigue crack growth kinetics of an AL-Zn-Mg-Cu alloy, Postgraduate, S.Pamir(Student), 1993

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Microstructural Anisotropy, Mechanical Properties, and Fatigue Crack Growth Behavior of AA2050-T84 Alloy**
Tufan B. A., Kibar A. A., GÜRBÜZ R.
Fatigue and Fracture of Engineering Materials and Structures, vol.48, no.1, pp.188-203, 2025 (SCI-Expanded)
- II. **Bioglass-polymer composite scaffolds for bone tissue regeneration: a review of current trends**
Motameni A., ÇARDAKLI İ. S., GÜRBÜZ R., Alshemary A. Z., Razavi M., Farukoğlu Ö. C.
International Journal of Polymeric Materials and Polymeric Biomaterials, vol.73, no.7, pp.600-619, 2024 (SCI-Expanded)
- III. **Stress field analysis of functionally graded polar orthotropic disk on a rigid inclusion subjected to**

variable angular velocity

Motameni A., Farukoğlu Ö. C., KORKUT İ., GÜRBÜZ R.

Journal of Mechanical Science and Technology, vol.38, no.1, pp.323-332, 2024 (SCI-Expanded)

IV. MESOPOROUS SULPHATE DOPED HYDROXYAPATITE NANOPARTICLES FOR CONTROLLED RELEASE OF PROTEINS

ALSHEMARY A. Z., Muhammed Y., SALMAN N. A., Motameni A., GÜRBÜZ R.

Ceramics - Silikaty, vol.66, no.4, pp.447-452, 2022 (SCI-Expanded)

V. IN VITRO DEGRADATION AND BIOACTIVITY OF ANTIBACTERIAL CHROMIUM DOPED O-TRICALCIUM PHOSPHATE BIOCERAMICS

Alshemary A. Z., Muhammed Y., Salman N. A., Hussain R., Motameni A., GÜRBÜZ R., Alkaabi M. H. H., Abdolahi A.

CERAMICS-SILIKATY, vol.66, no.3, pp.347-353, 2022 (SCI-Expanded)

Articles Published in Other Journals

I. Effect of compression precracking on near threshold region for AISI 4340 steels considering compliance measurements

Çalışkan S., GÜRBÜZ R.

Materials Physics and Mechanics, vol.51, no.1, pp.151-167, 2023 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

I. Effect of Fillet Rolling Load on the Fatigue Performance of a Micro-Alloy Steel Diesel Engine Crankshaft

Cevik G., Gurbuz R.

6th International Conference on Fracture Fatigue and Wear (FFW), Porto, Portugal, 26 - 27 July 2017, vol.843

II. Assesment of Horizontal Attritor in the Manufacture of Al C Synthesized Composites via Mechanical Alloying

BOSTAN B., ÖZDEMİR A. T., KALKANLI A., GÜRBÜZ R., AKTÜRK S.

Euro PM2003 Mechanical Alloying, 10 - 12 October 2003, vol.2, pp.303-311

Supported Projects

GÜRBÜZ R., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

GÜRBÜZ R., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

GÜRBÜZ R., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

GÜRBÜZ R., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

ÖGEL B., GÜRBÜZ R., Project Supported by Higher Education Institutions, MİKROALAŞIMLI ÇELİKLERDE BEYNİT OLUŞUMU VE BUNA BAĞLI MEKANİK ÖZELLİKLERDEKİ DEĞİŞİMİN İNCELENMESİ, 2014 - 2014

GÜRBÜZ R., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

GÜRBÜZ R., MOTAMENİ TABATABAEI A., Project Supported by Higher Education Institutions, DETERMINATION OF MODE II FATIGUE CRACK GROWTH BEHAVIOR IN RAILWAY STEELS, 2013 - 2013

Metrics

Publication: 23

Citation (WoS): 211

Citation (Scopus): 221

H-Index (WoS): 6

H-Index (Scopus): 7