

Prof. Recep SADELER

Personal Information

Office Phone: [+90 442 231 1111](tel:+904422311111) Extension: 4840

Web: <https://avesis.atauni.edu.tr/receps>

Address: Atatürk Üniversitesi Mühendislik Fakültesi Makine Mühendisliği Bölümü

International Researcher IDs

ScholarID: k6xC020AAAAJ

ORCID: 0000-0001-5380-9733

Publons / Web Of Science ResearcherID: AAZ-9114-2021

Yoksis Researcher ID: 31420

Education Information

Doctorate, Ataturk University, Mühendislik Fakültesi, Makine , Turkey 1997 - 2002

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Turkey 1993 - 1997

Undergraduate, Karadeniz Technical University, Turkey 1986 - 1989

Research Areas

Mechanical Engineering, Construction and Manufacturing, Plastic Forming Methods, Engineering and Technology

Academic Titles / Tasks

Professor, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, 2008 - Continues

Academic and Administrative Experience

Dean, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, 2020 - Continues

Head of Department, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, 2020 - 2020

Courses

Girişimcilik I, Undergraduate, 2021 - 2022

Teknoloji Yönetimi ve Değerlendirmesi, Postgraduate, 2020 - 2021

DİSLOKASYONLAR VE MUKAVEMET ARTIRMA MEKANİZMALARI, Doctorate, 2021 - 2022

Jury Memberships

Associate Professor Exam, Associate Professor Exam, Gazi Üniversitesi, November, 2021

Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, March, 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **In vitro investigation of the effect of preheating, thermal cycling, and different chewing environment temperatures on the wear of dental composite resins**
SADELER R., Saeidi A., Keles S.
MATERIALS TECHNOLOGY, vol.37, no.12, pp.2073-2089, 2022 (SCI-Expanded)
- II. **Impact wear behavior of ball burnished 316L stainless steel**
Yilmaz H., SADELER R.
SURFACE & COATINGS TECHNOLOGY, vol.363, pp.369-378, 2019 (SCI-Expanded)
- III. **Corrosion fatigue behavior of Al-5Mg coated AISI 316L stainless steel in sodium chloride environments under bending load**
Öcal M., SADELER R.
ANTI-CORROSION METHODS AND MATERIALS, vol.66, no.1, pp.34-39, 2019 (SCI-Expanded)
- IV. **Effect of Ball Burnishing Treatment on the Fatigue Behavior of 316L Stainless Steel Operating Under Anodic and Cathodic Polarization Potentials**
YILMAZ H., SADELER R.
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, no.11, pp.5393-5401, 2018 (SCI-Expanded)
- V. **Investigation of three-body wear of dental materials under different chewing cycles**
Yilmaz E. Ç., SADELER R.
SCIENCE AND ENGINEERING OF COMPOSITE MATERIALS, vol.25, no.4, pp.781-787, 2018 (SCI-Expanded)
- VI. **Investigation of Two- and Three-Body Wear Resistance on Flowable Bulk-Fill and Resin-Based Composites**
Yilmaz E. C., Sadeler R.
MECHANICS OF COMPOSITE MATERIALS, vol.54, no.3, pp.395-402, 2018 (SCI-Expanded)
- VII. **The effect of contact pad hardness on the fretting fatigue behaviour of AZ61 magnesium alloy**
SADELER R., Atasoy S.
FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES, vol.39, no.4, pp.502-510, 2016 (SCI-Expanded)
- VIII. **Evaluation of an electroless nickel-boron (Ni-B) coating on corrosion fatigue performance of ball burnished AISI 1045 steel**
Sadeler R., Corak S., Atasoy S., Bulbul F.
KOVOVE MATERIALY-METALLIC MATERIALS, vol.51, no.6, pp.351-356, 2013 (SCI-Expanded)
- IX. **Influence of relative slip on fretting fatigue behaviour of 2014 aluminium alloy with the age-hardened conditions T4 and T6**
Sadeler R., Ocal M.
METALS AND MATERIALS INTERNATIONAL, vol.18, no.2, pp.273-277, 2012 (SCI-Expanded)
- X. **The Fretting Fatigue of Commercial Hard Anodized Aluminum Alloy**
SADELER R., ATASOY S., ARICI A. A., TOTİK Y.
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, vol.18, no.9, pp.1280-1284, 2009 (SCI-Expanded)
- XI. **Fretting fatigue behaviour of a 2014-T6 aluminium alloy coated with an electroless nickel under rotating bending loading**
SADELER R., Atasoy S., ALTUN H.
KOVOVE MATERIALY-METALLIC MATERIALS, vol.47, no.2, pp.95-100, 2009 (SCI-Expanded)
- XII. **The effect of manganese phosphate coating treatment on fretting fatigue strength of AISI 1045 steel**
TOTİK Y., CAGLAROĞLU A., SADELER R.
KOVOVE MATERIALY-METALLIC MATERIALS, vol.45, no.5, pp.275-281, 2007 (SCI-Expanded)
- XIII. **The effect of residual stresses induced by prestraining on fatigue life of notched specimens**
SADELER R., OZEL A., Kaymaz L., TOTİK Y.
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, vol.14, no.3, pp.351-355, 2005 (SCI-Expanded)
- XIV. **The effect of the microstructural difference between surface and center on the hot workability of AA 6063 homogenized ingot**

- TOTİK Y., GAVGALI M., SADELER R., Kaymaz I.
JOURNAL OF ADVANCED MATERIALS, vol.36, no.4, pp.53-59, 2004 (SCI-Expanded)
- XV. **Improvements of fatigue behaviour in 2014 Al alloy by solution heat treating and age-hardening**
SADELER R., TOTİK Y., GAVGALI M., Kaymaz I.
MATERIALS & DESIGN, vol.25, no.5, pp.439-445, 2004 (SCI-Expanded)
- XVI. **The effect of homogenisation treatment on cold deformations of AA 2014 and AA 6063 alloys**
TOTİK Y., SADELER R., Kaymaz I., GAVGALI M.
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.147, no.1, pp.60-64, 2004 (SCI-Expanded)
- XVII. **The effects of artificial aging on wear properties of AA 6063 alloy**
GAVGALI M., Totik Y., SADELER R.
MATERIALS LETTERS, vol.57, pp.3713-3721, 2003 (SCI-Expanded)
- XVIII. **The effects of induction hardening on wear properties of AISI 4140 steel in dry sliding conditions**
Totik Y., SADELER R., ALTUN H., GAVGALI A.
MATERIALS & DESIGN, vol.24, no.1, pp.25-30, 2003 (SCI-Expanded)
- XIX. **The investigation of hot workability of AA 6063/SiC composites with different SiC particulate volume fraction**
TOTİK Y., SADELER R., GAVGALI M., Kaymaz I.
SCIENCE AND ENGINEERING OF COMPOSITE MATERIALS, vol.10, no.4, pp.279-286, 2002 (SCI-Expanded)
- XX. **Corrosion behavior of 90%Cu-10%Ni alloy at different rotation speeds**
GAVGALI M., Kaymaz I., TOTİK Y., SADELER R.
CORROSION REVIEWS, vol.20, pp.403-414, 2002 (SCI-Expanded)
- XXI. **An investigation of the relationship between heat treatment and microstructure in (TiAlV)N and (TiAl)N ceramic films**
Totik Y., Efeoglu I., Gavgali M., Sadeler R.
MATERIALS CHARACTERIZATION, vol.47, no.1, pp.55-60, 2001 (SCI-Expanded)

Articles Published in Other Journals

- I. **A Literature Review on Chewing Simulation and Wear Mechanisms of Dental Biomaterials**
YILMAZ E. Ç., SADELER R.
Journal of Bio- and Tribo-Corrosion, vol.7, no.3, pp.1-10, 2021 (Scopus)
- II. **Evaluation of contact-wear behavior of lithium disilicate glass ceramic materials; In vitro study**
Yilmaz E. C., SADELER R.
BIOMEDICAL AND BIOTECHNOLOGY RESEARCH JOURNAL, vol.5, no.2, pp.166-169, 2021 (ESCI)
- III. **Effect of different thermal change tests of micro tensile strength behavior bio-composite materials; In vitro study**
YILMAZ E. Ç., SADELER R.
Biomedical Research Journal, vol.8, 2021 (Peer-Reviewed Journal)
- IV. **Effects of Contact-Stress on Wear Behavior of Zirconia-Reinforced Lithium Silicate Glass-Ceramic**
YILMAZ E. Ç., SADELER R.
Biomedical and Biotechnology Research Journal (BBRJ), vol.4, no.1, pp.51, 2020 (ESCI)
- V. **Effect of artificial aging environment and time on mechanical properties of composite materials**
YILMAZ E. Ç., SADELER R.
Journal of Dental Research and Review, vol.5, no.4, pp.111-115, 2019 (Peer-Reviewed Journal)
- VI. **Effect of ambient pH and different chewing cycle of contact wear on dental composite material**
YILMAZ E. Ç., SADELER R., YEŞİL DUYSUŞ Z., ÖZDOĞAN A.
Dentistry and Medical Research, vol.6, pp.46-50, 2018 (Peer-Reviewed Journal)
- VII. **YAPAY AĞIZ SIVISINDA TERMAL ÇEVİRİMİN KOMPOZİT RESTORATİF MALZEMELERİNİN YÜZEY PÜRÜZLÜLÜĞÜ ÜZERİNDEKİ ETKİSİ**
YILMAZ E. Ç., SADELER R.

Technological Applied Sciences, vol.12, pp.38-42, 2017 (Peer-Reviewed Journal)

- VIII. **Effects of two-body wear on microfill, nanofill, and nanohybrid restorative composites**
YILMAZ E. Ç., SADELER R., YEŞİL DUYMUŞ Z., ÖCAL M.
Biomedical and Biotechnology Research Journal (BBRJ), vol.1, pp.25, 2017 (Scopus)
- IX. **Effect of thermal cycling and microhardness on roughness of composite restorative materials**
YILMAZ E. Ç., SADELER R.
Journal of Restorative Dentistry, vol.3, pp.93-96, 2016 (Scopus)
- X. **Akımsız Nikel Kaplanmış Alüminyum Alışımının Fretting Yorulma Davranışının Farklı Temas Basınçları Altında İncelenmesi**
SADELER R., ATASOY S., YEŞİLDAL R., ARICI A. A.
Metal Dünyası, pp.108-111, 2008 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Malzeme Bilgisi**
SADELER R.
in: Makina ve Teçhizat, , Editor, Açık Öğretim Fakültesi, 2017

Refereed Congress / Symposium Publications in Proceedings

- I. **INVESTIGATION OF THE EFFECT OF ARTIFICIAL AGING ENVIRONMENT TEMPERATURE ON MECHANICAL BEHAVIOR OF BIO-COMPOSITE MATERIAL WITH NANO FILLER**
YILMAZ E. Ç., SADELER R.
4th INTERNATIONAL ENERGY ENGINEERING CONGRESS, Turkey, 24 - 25 October 2019
- II. **EVALUATION OF WEAR BEHAVIOUR OF LITHIUM DISILICATE GLASS CERAMIC MATERIALS UNDER IN VITRO CHEWING TESTS**
YILMAZ E. Ç., SADELER R.
International Conference on Multidisciplinary, Science, Engineering and Technology (IMESET'18 Dubai), Dubai, United Arab Emirates, 25 - 28 October 2018
- III. **EFFECT OF ARTIFICIAL AGING ENVIRONMENT ON MECHANICAL PROPERTIES OF COMPOSITE MATERIALS**
YILMAZ E. Ç., SADELER R.
2nd INTERNATIONAL ENERGY AND ENGINEERING CONFERENCE 2017, Gaziantep, Turkey, 12 - 13 October 2017
- IV. **EVALUATION OF WEAR BEHAVIOUR OF COMPOSITE MATERIALS UNDER DIFFERENT CHEWING LOADING**
YILMAZ E. Ç., SADELER R.
2nd INTERNATIONAL ENERGY AND ENGINEERING CONFERENCE 2017, Gaziantep, Turkey, 12 - 13 October 2017
- V. **Effect of Ambient pH of Wear on Dental Composite Material**
YILMAZ E. Ç., SADELER R., YEŞİL DUYMUŞ Z., ÖZDOĞAN A.
International Conference on Advanced Engineering Technologies, Turkey, 21 - 23 September 2017
- VI. **Effect of Strobe Artificial Saliva on Surface Roughness and Microhardness of Restorative Composite Materials**
YILMAZ E. Ç., SADELER R.
International Conference on Advanced Engineering Technologies, Turkey, 21 - 23 September 2017
- VII. **Effect of Ambient pH of Wear on Dental Composite Material**
YILMAZ E. Ç., SADELER R., YEŞİL DUYMUŞ Z., ÖZDOĞAN A.
II. International Conference on Advanced Engineering Technologies, Turkey, 21 - 23 September 2017
- VIII. **WEAR PROPERTIES OF NANOFILLED AND MICROFILLED COMPOSITE RESTORATIVE MATERIALS**
YILMAZ E. Ç., SADELER R.

International Energy and Engineering Conference 2016, 14 October 2015 - 15 October 2016

IX. YAPAY AĞIZ SIVISINDA TERMAL ÇEVİRİMİN KOMPOZİT RESTORATİF MALZEMELERİNİN YÜZEY PÜRÜZLÜLÜĞÜ ÜZERİNDEKİ ETKİSİ

YILMAZ E. Ç., SADELER R.

14.Uluslararası Korozyon Sempozyumu Kongre, 5 - 07 October 2016

X. Investigation of Mechanical Properties of Restorative Composites After Artificial Aging

YILMAZ E. Ç., SADELER R., ÖNER İ. V., YEŞİLYURT M. K.

International Energy and Engineering Conference 2016, 13 - 14 October 2016

XI. WEAR PROPERTIES OF NANOFILLED AND MICROFILLED COMPOSITE RESTORATIVE MATERIALS

YILMAZ E. Ç., SADELER R.

International Energy and Engineering Conference 2016, 13 - 14 October 2016

XII. Investigation of Mechanical Properties of Restorative Composites after Artificial Aging

YILMAZ E. Ç., SADELER R., ÖNER İ. V., YEŞİLYURT M. K.

Uluslararası Enerji & Mühendislik Konferansı 2016, Gaziantep, Turkey, 13 - 14 October 2016, pp.739-743

Supported Projects

SADELER R., YURDGÜLÜ H. İ., Project Supported by Higher Education Institutions, ALÜMİNYUM ESASLI ELEKTRİK ARK PÜSKÜRTME KAPLAMASI İLE KAYNAKLI 7000 SERİSİ ALÜMİNYUM ALAŞIMLARININ ELEKTROKİMYASAL VE GERİLMELİ KOROZYON ÇATLAMASINA KARŞI KORUNMASI, 2021 - Continues

SADELER R., KELEŞ S., Project Supported by Higher Education Institutions, Çiğneme Simülatorü ve Termal Yorulma Cihazı2, 2021 - Continues

SADELER R., HAŞILOĞLU A., TEKİN T., UYSAL H., YILDIZ E., ÇAVUŞOĞLU B., BİNGÖL A. F., SEVİM F., BAYAR S., Project Supported by Higher Education Institutions, Atatürk Üniversitesi Mühendislik Fakültesi Bilimsel Araştırma Altyapısının İyileştirilmesi ve Geliştirilmesi, 2021 - Continues

Sadeler R., TUBITAK Project, ALÜMİNYUM ESASLI ELEKTRİK ARK PÜSKÜRTME KAPLAMASI İLE KAYNAKLI 7000 SERİSİ ALÜMİNYUM ALAŞIMLARININ ELEKTROKİMYASAL VE GERİLMELİ KOROZYON ÇATLAMASINA KARŞI KORUNMASI, 2021 - 2023

SADELER R., MELETLİOĞLU E., Project Supported by Higher Education Institutions, PVD YÖNTEMİ İLE GÜMÜŞ KAPLANMIŞ TİTANYUM ALAŞIMLARININ AŞINMA, KOROZYON VE BİYOUYUMLULUK ÖZELLİKLERİNİN ARAŞTIRILMASI, 2019 - 2022

YEŞİL DUYMUS Z., SADELER R., ERTUĞRUL M., KELEŞ S., Project Supported by Higher Education Institutions, CFRPEEK Dental İmplant Malzemelerinin Biyolojik ve Mekanik Özelliklerinin Araştırılması ve Güncel Olarak Kullanılan Dental İmplant Malzemeleri ile Karşılaştırılması, 2019 - 2022

SADELER R., KELEŞ S., SAEIDI A., YILMAZ E. Ç., Project Supported by Higher Education Institutions, Çiğneme simülatorü ve termal yorulma cihazı, 2018 - 2021

SADELER R., YILMAZ E. Ç., Project Supported by Higher Education Institutions, ÇIĞNEME SİMÜLATÖRÜ VE TERMAL YORULMA CİHAZININ TASARIMI VE İMALATI, 2015 - 2018

SADELER R., Project Supported by Higher Education Institutions, ATATÜRK ÜNİVERSİTESİ ÖĞRETİM ÜYELERİNİN VE ATATÜRK ÜNİVERSİTESİN DE DOKTORA YAPAN ÖĞRENCİLERİN PATENT BULUŞ FİKİRLERİNİN ÖN ARAŞTIRMA İŞLEMİNİN YAPILMASI, 2016 - 2017

SADELER R., Project Supported by Higher Education Institutions, ATATÜRK ÜNİVERSİTESİ ÖĞRETİM ÜYELERİNİN BİLİMSEL ÇALIŞMALARININ FİKRİ SİNAİ MÜLKİYET HAKLARININ KORUNMASI, 2015 - 2016

SADELER R., Project Supported by Higher Education Institutions, ATATÜRK ÜNİVERSİTESİ ÖĞRETİM ÜYELERİNİN BİLİMSEL ÇALIŞMALARININ FİKRİ SİNAİ MÜLKİYET HAKLARININ KORUNMASI, 2014 - 2015

SADELER R., YILMAZ E. Ç., Project Supported by Higher Education Institutions, 316 L ÖSTENİTİK PASLANMAZ ÇELİĞİN TERMAL YORULMA DAVRANIŞI İLE KOROZYONLU MEKANİK YORULMA DAVRANIŞLARININ İNCELENMESİ, 2013 - 2015

SADELER R., Project Supported by Higher Education Institutions, Tİ6Al4V ALAŞIMININ FRETTİNG YORULMA DAVRANIŞININ GELİŞTİRİLMESİNDE MEKANİK YÜZEY İŞLEMİNİN (BALL BURNİSHİNG) ETKİSİ, 2012 - 2014

SADELER R., Project Supported by Higher Education Institutions, AZ61 MAGNEZYUM ALAŞIMININ SÜRTÜNMELİ TEMAS

YORULMASINDA (FRETTİNG FATİGUE) FARKLI TEMAS MALZEMELERİNİN ETKİSİ, 2011 - 2013

SADELER R., Project Supported by Higher Education Institutions, ÇELİKLERİN YORULMA PERFORMANSININ MEKANİK YÜZEY İŞLEMİ İLE GELİŞTİRİLMESİ, 2010 - 2012

Patent

Sadeler R., Saeıdı A., Keleş S., Yılmaz E. Ç., BİR ÇİĞNEME SİMÜLATÖRÜ, Utility patents, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 201816847 , Standard Registration, 2021

Scientific Refereeing

Project Supported by Higher Education Institutions, BAP PhD, Gaziantep University, Turkey, October 2021

Metrics

Publication: 44

Citation (WoS): 234

Citation (Scopus): 304

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