

## Prof. Recep SADELER

### Personal Information

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### International Researcher IDs

ScholarID: k6xC020AAAAJ

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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 1985 - 1989

### Research Areas

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

### Academic Titles / Tasks

Professor, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, 2013 - Continues

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

### Academic and Administrative Experience

Üniversite Disiplin Kurulu Üyeliği, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, 2021 - Continues

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

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

### Courses

SEÇMELİ TASARIM II-İ.Ö, Undergraduate, 2022 - 2023

Makine Mühendisliği Seçmeli Tasarım II, Undergraduate, 2022 - 2023

Malzeme Bilimi, Undergraduate, 2022 - 2023

Teknoloji Yönetimi ve Değerlendirmesi, Postgraduate, 2022 - 2023

Malzeme Bilgisi, Undergraduate, 2022 - 2023

TEKNOLOJİ YÖNETİMİ ve DEĞERLENDİRMESİ, Postgraduate, 2022 - 2023

Seçmeli Tasarım I, Undergraduate, 2023 - 2024

DİSLOKASYON TEORİSİNE GİRİŞ, Doctorate, 2023 - 2024

Danışmanlık - Dr., Doctorate, 2022 - 2023

DİSLOKASYONLAR VE MUKAVEMET ARTIRMA MEKANİZMALARI, Doctorate, 2022 - 2023

Malzeme Bilgisi, Undergraduate, 2021 - 2022

Uzmanlık Alan Dersi - Dr., Doctorate, 2022 - 2023

Bitirme Projesi II, Undergraduate, 2021 - 2022

Danışmanlık - YL, Postgraduate, 2022 - 2023

Malzeme Bilimi , Undergraduate, 2021 - 2022

Uzmanlık Alan Dersi - YL - Yabancı Uyruklu , Postgraduate, 2022 - 2023

Uzmanlık Alan Dersi - YL, Postgraduate, 2022 - 2023

Girişimcilik II, Undergraduate, 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. **Exfoliation behavior of EN AW 7020 with T6, step aging and ultrasonic impact peening processes**  
Yurdgülü H. I., Sadeler R., Koç B.  
MATERIALS TESTING, vol.5, no.66, pp.687-695, 2024 (SCI-Expanded)
- II. **Dynamic impact analysis of AISI 316L coated with Al-5Mg in air and seawater**  
Ocal M., Yilmaz H., Sadeler R.  
SHIPS AND OFFSHORE STRUCTURES, vol.19, no.1, pp.16-26, 2024 (SCI-Expanded)
- III. **Corrosion fatigue behavior of AA 7020 alloy in seawater**  
Yurdgulu H. I., Sadeler R., Yilmaz H., Koc B.  
MATERIALS TESTING, vol.65, no.5, pp.743-752, 2023 (SCI-Expanded)
- IV. **COMPARISON OF CORROSION, TRIBOCORROSION AND ANTIBACTERIAL PROPERTIES OF SILVER COATINGS ON Ti15Mo BY MAGNETRON SPUTTERING**  
Meletlioglu E., Sadeler R.  
SURFACE REVIEW AND LETTERS, vol.30, no.5, 2023 (SCI-Expanded)
- V. **Structural, mechanical and cytotoxic properties of Ta-doped diamond-like carbon films deposited via radio frequency magnetron sputtering on polyether ether ketone**  
Keleş S., Duymuş Z., Sadeler R., Ertuğrul M., Meletlioğlu E.  
Thin Solid Films, vol.769, 2023 (SCI-Expanded)
- VI. **Development of silver film coating on dental ti15mo alloy to enhance two-body wear resistance, biocompatibility and cytotoxicity effect**  
Meletlioglu E., Sadeler R., Keles S.  
MATERIA-RIO DE JANEIRO, vol.28, no.2, 2023 (SCI-Expanded)
- VII. **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)
- VIII. **Impact wear behavior of ball burnished 316L stainless steel**  
Yilmaz H., SADELER R.  
SURFACE & COATINGS TECHNOLOGY, vol.363, pp.369-378, 2019 (SCI-Expanded)
- IX. **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)

- X. **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)
- XI. **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)
- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **The effect of manganese phosphate coating treatment on fretting fatigue strength of AISI 1045 steel**  
TOTİK Y., CAGLAROGU A., SADELER R.  
KOVOVE MATERIALY-METALLIC MATERIALS, vol.45, no.5, pp.275-281, 2007 (SCI-Expanded)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **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)
- XXIII. **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)

- XXIV. **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)
- XXV. **Corrosion behavior of 90%Cu-10%Ni alloy at different rotation speeds**  
GAVGALI M., Kaymaz I., TOTIK Y., SADELER R.  
CORROSION REVIEWS, vol.20, pp.403-414, 2002 (SCI-Expanded)
- XXVI. **The investigation of hot workability of AA 6063/SiC composites with different SiC particulate volume fraction**  
TOTIK Y., SADELER R., GAVGALI M., Kaymaz I.  
SCIENCE AND ENGINEERING OF COMPOSITE MATERIALS, vol.10, no.4, pp.279-286, 2002 (SCI-Expanded)
- XXVII. **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. **Comparison of Corrosion and Antibacterial Properties of Silver Coatings on Ti6AL4V by Magnetron Sputtering**  
Meletlioğlu E., Sadeler R.  
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.28, no.2, pp.629-640, 2023 (Peer-Reviewed Journal)
- II. **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)
- III. **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)
- IV. **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)
- V. **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)
- VI. **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)
- VII. **Effect of ambient pH and different chewing cycle of contact wear on dental composite material**  
YILMAZ E. Ç., SADELER R., YEŞİL DUYMUŞ Z., ÖZDOĞAN A.  
Dentistry and Medical Research, vol.6, pp.46-50, 2018 (Peer-Reviewed Journal)
- VIII. **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)
- IX. **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)
- X. **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)

- XI. **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. **Comparison of Corrosion and Antibacterial Properties of Silver Coatings on Ti6AL4V by Magnetron Sputtering**  
SADELER R., MELETLİOĞLU E.  
Global Summit on Advanced Materials and Sustainable Energy (G-AMSE22), Van, Turkey, 03 October 2022
- II. **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
- III. **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
- IV. **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
- V. **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
- VI. **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
- VII. **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
- VIII. **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
- IX. **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
- X. **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

**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.

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

**XIII. 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., Project Supported by Higher Education Institutions, Çiğneme Simülâtörü ve Termal Yorulma Cihazı-3, 2023 - 2024

YEŞİL Z., SADELER R., ERTUĞRUL M., KELEŞ S., Project Supported by Higher Education Institutions, TaDLC Kaplı Yeni Polieter Eter Keton Dental İmplant Materyali, 2023 - 2024

SADELER R., YURDGÜLÜ H. İ., Project Supported by Higher Education Institutions, Kaynaklı Malzeme Korozyon Ünitesi, 2022 - 2024

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 - 2024

SADELER R., ÇÖKEL M., Project Supported by Higher Education Institutions, Termal bariyer kaplama yapılan malzemelerin farklı ortamlardaki termal çevrim davranışlarının incelenmesi, 2022 - 2023

SADELER R., KELEŞ S., Project Supported by Higher Education Institutions, Çiğneme Simülâtörü ve Termal Yorulma Cihazı2, 2021 - 2023

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., Yurdgülü H. İ., TUBITAK Project, Elektrik Ark Püskürtme Kaplama Yöntemi İle Kaynak Yapılmış 7000 Grubu Alüminyum Alaşımının Elektrokimyasal Korozyon ve Gerilmeli Korozyon Çatlağı Özelliklerinin İyileştirilmesi, 2022 - 2022

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

YEŞİL 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 simülâtörü ve termal yorulma cihazı, 2018 - 2021

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

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

## Patent

Sadeler R., KAYNAKLI MALZEMELERİN KOROZYON ÖLÇÜMLERİ İÇİN KOROZYON ÜNİTESİ, Patent, CHAPTER C

Chemistry; Metallurgy, The Invention Recourse Number: 2022/014601 , Standard Registration, 2022  
Sadeler R., Saeıdı A., Keleş S., Yılmaz E. Ç., BİR ÇIĞNEME SİMÜLATÖRÜ, Utility Model, 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 Research Project, Gaziantep University, Turkey, December 2022  
Project Supported by Higher Education Institutions, BAP PhD, Gaziantep University, Turkey, October 2021

## **Metrics**

Publication: 52  
Citation (WoS): 283  
Citation (Scopus): 366  
H-Index (WoS): 8  
H-Index (Scopus): 10

## **Non Academic Experience**

ATA Teknokent A.Ş.  
ATA Teknokent A.Ş.