

## Prof. İhsan EFEOĞLU

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: GZM-7553-2022

ScopusID: 6603362318

Yoksis Researcher ID: 3490

### Education Information

Doctorate, The University of Salford, Faculty Of Engineering, Aeronautical and Mechanical Eng., United Kingdom 1989 - 1993

Postgraduate, Gazi University, Fen Bilimleri, Makine Eğitimi, Turkey 1987 - 1989

Undergraduate, Gazi University, Teknik Eğitim Fakültesi, Üretim Mühendisliği, Turkey 1980 - 1983

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Mechanical and tribological properties of ceramic sputter ion-plated coatings, The University of Salford, Engineering Faculty, Aeronautical and Mechanical Engineering, 1993

Postgraduate, Investigation of the powder metallurgy terminology and development of the a multi-language computer program, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Makine, 1989

### Research Areas

Mechanical Engineering, Construction and Manufacturing, Tribology, Machine Design, Material, Aeronautical and Space Engineering, Metallurgical and Materials Engineering, Material science and engineering, Plating, Material Characterization, Nanomaterials, Aeronautical Engineering , Material Technologies, Engineering and Technology

### Academic Titles / Tasks

Professor, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, 2001 - Continues

Associate Professor, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, 1996 - 2001

Assistant Professor, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, 1994 - 1996

Research Assistant, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, 1984 - 1992

## Academic and Administrative Experience

Akıllı Yenilikçi Malzeme Odak Alanı Koordinatörü, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, 2022 - Continues

Lisans Eğitim Komisyon Üyesi, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, 2020 - Continues

Academic Performance D. Board Member, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, 2020 - Continues

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

Atatürk Üniversitesi, Fen Bilimleri, --, 2012 - 2015

Coordinator of The Rectorate, Ataturk University, Rektörlük, -, 2013 - 2014

Atatürk Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, 2008 - 2014

Atatürk Üniversitesi, Ata Teknokent, ---, 2006 - 2010

Atatürk Üniversitesi, Atatürk Üniversitesi, ---, 2004 - 2010

Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, --, 1996 - 2010

Atatürk Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, 2002 - 2008

Atatürk Üniversitesi, Mühendislik Fakültesi, Metalurji Mühendisliği, 1996 - 2002

Atatürk Üniversitesi, Mühendislik Fakültesi, --, 1998 - 2001

Atatürk Üniversitesi, Üsigem, --, 1997 - 2001

Atatürk Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, 1995 - 1997

## Courses

Malzemelerin Mikroyapısal Karakterizasyonu, Postgraduate, 2023 - 2024

Seçmeli Tasarım II, Undergraduate, 2022 - 2023

Proje Tasarım Esasları, Undergraduate, 2022 - 2023

Mühendislik Malzemeleri, Undergraduate, 2022 - 2023

Malzeme Bilimi, Undergraduate, 2023 - 2024

Mühendislik Malzemeleri, Undergraduate, 2022 - 2023

MALZEME BİLİMİ SEM ve XRD, Postgraduate, 2022 - 2023

KATI İNCE FİLM TRIBOLOJİSİ, Doctorate, 2023 - 2024

Proje Tasarım Esasları, Undergraduate, 2022 - 2023

Mesleki İngilizce I, Undergraduate, 2023 - 2024

Proje Tasarım Esasları, Undergraduate, 2022 - 2023

Danışmanlık, Doctorate, 2022 - 2023

Uzmanlık Alan Dersi (V ve VII), Doctorate, 2021 - 2022

Danışmanlık (Y. L.), Postgraduate, 2021 - 2022

Bitirme Projesi II, Undergraduate, 2021 - 2022

Danışmanlık (YL), Postgraduate, 2022 - 2023

Danışmanlık (YL), Postgraduate, 2021 - 2022

Mazlemelerin Mikroyapısal Karakterizasyonu , Postgraduate, 2022 - 2023

Makine Mühendisliği Seçmeli Tasarım II, Undergraduate, 2021 - 2022

Uzmanlık Alan Dersi, Doctorate, 2022 - 2023

Mühendislik Malzemeleri, Undergraduate, 2021 - 2022

Uzmanlık Alan Dersi (II, III ve IV), Postgraduate, 2022 - 2023

Proje Tasarım Esasları, Undergraduate, 2021 - 2022

Malzeme Bilimi, Undergraduate, 2021 - 2022

Malzeme Bilimi için SEM ve XRD, Postgraduate, 2020 - 2021  
YÜZEY MÜHENDİSLİĞİ, Doctorate, 2020 - 2021  
Bitirme Projesi-II, Undergraduate, 2019 - 2020  
Mühendislik Malzemeleri, Undergraduate, 2019 - 2020  
Makine Ana Seçmeli Tasarım-II, Undergraduate, 2019 - 2020  
Mühendislik Malzemeleri, Undergraduate, 2019 - 2020  
Yüzey Mühendisliği, Doctorate, 2019 - 2020  
Malzeme Bilimi, Undergraduate, 2020 - 2021  
Malzemelerin Mikroyapısal Karakterizasyon Teknikleri, Postgraduate, 2020 - 2021  
Makine Ana Seçmeli Tasarım-II, Undergraduate, 2019 - 2020  
Malzeme Bilimi, Undergraduate, 2020 - 2021  
Proje Tasarım Esasları, Undergraduate, 2019 - 2020  
Bitirme Projesi-II, Undergraduate, 2019 - 2020  
Bitirme Projesi-I, Undergraduate, 2020 - 2021  
Makine Ana Tasarım-I, Undergraduate, 2020 - 2021  
Proje Tasarım Esasları, Undergraduate, 2019 - 2020  
Katı İnce Film Tribolojisi, Doctorate, 2020 - 2021  
Makine Ana Tasarım, Undergraduate, 2020 - 2021  
Malzemelerin Mikroyapısal Karakterizasyon Teknikleri, Postgraduate, 2019 - 2020  
Bitirme Projesi-I, Undergraduate, 2020 - 2021  
Malzeme Bilimi için SEM ve XRD, Postgraduate, 2017 - 2018  
Engineering Materials, Undergraduate, 2016 - 2017  
Wear of Materials, Postgraduate, 2016 - 2017  
Teknoloji ve AR&GE Yönetimi, Postgraduate, 2016 - 2017  
Girişimcilik-I-II, Undergraduate, 2016 - 2017  
Microstructural Characterization of Materials, Postgraduate, 2014 - 2015  
İleri Microscopic Teknikler, Postgraduate, 2014 - 2015  
Kaplama Teknikleri, Doctorate, 2013 - 2014

## Advising Theses

Efeoğlu İ., Bor esaslı CN kaplamalarının sentezi ve tribolojik özelliklerin araştırılması, Postgraduate, G.GÜLTEN(Student), Continues  
Efeoğlu İ., TiZrNbCuN ve TiZrNbN nanokompozit ince filminin sentezlenmesi: yapısal – mekanik – tribolojik özelliklerinin araştırılması, Doctorate, H.AHMAD(Student), 2021  
Efeoğlu İ., Kara- deniz silah sistemleri için fonksiyonel kaplamaların geliştirilmesi, Postgraduate, N.AKSAKALLI(Student), 2021  
Efeoğlu İ., Bor esaslı fonksiyonel nanokompozit ince film sentezlenmesi: yapısal – mekanik – tribolojik özelliklerinin araştırılması, Doctorate, A.KELEŞ(Student), 2019  
EFEOĞLU İ., TiNbTa/CrYN Yüksek Sıcaklık Termal Bariyer İnce Film Sentezlenmesi: Yüksek Sıcaklık Mekanik ve Tribolojik Özelliklerinin Araştırılması, Doctorate, M.Tahmasabian(Student), 2016  
EFEOĞLU İ., TiNi Türü Şekil Hafızalı Kaplama Filmin Sentezlenmesi, Özelliklerinin Araştırılması ve Tipik MEMS Uygulaması, Doctorate, H.Çiçek(Student), 2015  
EFEOĞLU İ., VN İnce Seramik Film Sentezlenmesi: Yapısal ve Tribolojik Özelliklerin İncelenmesi, Postgraduate, H.A. (Student), 2014  
EFEOĞLU İ., TiAlN/TiCrN Çok Tabakalı Kompozit İnce Film Büyütülmesi ve Tribolojik Özelliklerin Araştırılması, Postgraduate, Ç.Laloğlu(Student), 2013  
EFEOĞLU İ., Ti-DLC Kaplama Filmlerin Sentezlenmesi ve Tribolojik Özelliklerin Araştırılması, Postgraduate, K.Kurucu(Student), 2013  
EFEOĞLU İ., Çok Tabakalı CrN:AlN Nano Yapılı Kompozit Filmin Tribolojik Özelliklerinin Araştırılması, Postgraduate,

A.Kadir(Student), 2011

EFEÖĞLU İ., Manyetik Alanda Sıçratma ile Büyütülen (Ti-Ta-B)N Kaplamaların Mekanik ve Tribolojik Özelliklerinin Araştırılması, Doctorate, Ö.Baran(Student), 2011

EFEÖĞLU İ., TiBN Kaplama İnce Filmin Yapısal ve Mekanik Özelliklerinin Araştırılması, Postgraduate, H.Çiçek(Student), 2009

EFEÖĞLU İ., Kapalı-alan dengelenmemiş magnetron sıçratma (CFUBMS) yöntemi ile büyütülmüş MoS<sub>2</sub>-Nb nano yapıdaki kompozit filmlerin farklı ortamlarda tribolojik özelliklerinin araştırılması, Postgraduate, Ö.Baran(Student), 2007

EFEÖĞLU İ., 304L paslanmaz çelik üzerine DLC (diamond-like carbon) kaplanması ve mekanik-tribolojik özelliklerin araştırılması, Postgraduate, M.Mustafa(Student), 2006

EFEÖĞLU İ., Darbeli-dc manyetik alanda sıçratma yöntemi ile kaplanan TiB<sub>2</sub> ve Me-DLC filmlerin mekanik, yapısal ve tribolojik özelliklerin araştırılması, Doctorate, F.Bülbül(Student), 2006

EFEÖĞLU İ., MoS<sub>2</sub>-Ti kompozit ince filmin farklı çelik türleri üzerine PVD ile kaplanması: Mekanik, Tribolojik, Yapısal Özelliklerinin Karakterizasyonu, Doctorate, E.Arslan(Student), 2003

EFEÖĞLU İ., Darbeli-DC güç kaynağı kullanılarak CFUBMSIP ile büyütülmüş MoS<sub>2</sub>-Ti kompozit filmlerin yapısal, tribolojik ve mekanik özelliklerinin karakterizasyonu, Postgraduate, F.Bülbül(Student), 2002

EFEÖĞLU İ., Nitrür seramik kaplamaların yüksek sıcaklıklarda oksidasyon davranışının incelenmesi, Postgraduate, V.Ezirmik(Student), 2000

EFEÖĞLU İ., Seramik filmlerin ısı işlemleri mikroyapı ve difüzyon derecesi ilişkisi, Postgraduate, E.Arslan(Student), 1997

EFEÖĞLU İ., Metal alaşımı seramik filmlerde mikroyapı ve yapısal değişimlerin ısı işleme olan ilişkisinin araştırılması, Postgraduate, Y.Totik(Student), 1997

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Adhesion and friction-wear characterization of W-doped hydrogenated diamond-like carbon (a-C:H) coatings**  
Efeoğlu İ., Totik Y., Gülten G., Yaylalı B., Yeşilyurt M.  
Surface and Coatings Technology, vol.495, 2025 (SCI-Expanded)
- II. **Nb-doped hydrogenated diamond-like carbon coated biodiesel injectors material: Synthesis, structure and properties**  
EFEÖĞLU İ., Maleque M. A., GÜLTEN G., YEŞİLYURT M., YAYLALI B., TOTİK Y., Kalam M. A., Hassan M. H., Zulkifli N. W.  
Diamond and Related Materials, vol.149, 2024 (SCI-Expanded)
- III. **Investigation of hardness, tribological and adhesion properties of TiAlNiVN HEA films heat treated at different temperatures**  
Yılmaz A. M., Çiçek H., Duran S., GÜLTEN G., EFEÖĞLU İ.  
Tribology International, vol.197, 2024 (SCI-Expanded)
- IV. **Corrosion and adhesion properties of MAO-coated LA91 magnesium alloy**  
Sukuroglu S., Sukuroglu E. E., TOTİK Y., GÜLTEN G., EFEÖĞLU İ., Avci S.  
Materials Science and Technology (United Kingdom), vol.40, no.8, pp.616-632, 2024 (SCI-Expanded)
- V. **Fatigue and tensile behaviour of Ti plus TiN plus Ti plus TiVN multilayer nitride films coated on AZ91 magnesium alloy by closed field unbalanced magnetron sputtering**  
Alibeyoglu F., KARABUDAK F., YEŞİLDAL R., Balci A., EFEÖĞLU İ., Ates O. K.  
MATERIALS RESEARCH EXPRESS, vol.11, no.6, 2024 (SCI-Expanded)
- VI. **Application of honeycomb pattern to Ti<sub>2</sub>AlN MAX phase films by plasma etching**  
Duran S., Çiçek H., Korkmaz İ. H., EFEÖĞLU İ.  
Applied Physics A: Materials Science and Processing, vol.130, no.5, 2024 (SCI-Expanded)
- VII. **Pulsed-dc bias magnetron sputtered TiB<sub>2</sub> ceramic coating**  
Bulbul F., EFEÖĞLU İ.  
International Journal of Refractory Metals and Hard Materials, vol.120, 2024 (SCI-Expanded)
- VIII. **Effect of Nb and V doped elements on the mechanical and tribological properties of CrYN coatings**

- Gülten G., Yaylalı B., Efeoğlu İ., Totik Y., Kelly P., Kulczyk-Malecka J.  
Surface and Coatings Technology, vol.477, 2024 (SCI-Expanded)
- IX. **The effect of different annealing temperatures on the mechanical and tribological properties of the Ti<sub>2</sub>AlN MAX phase films**  
Cakir M., Cicek H., Duran S., Yilmaz A. M., GÜLTEN G., EFEÖĞLU İ.  
Surface Engineering, vol.40, no.2, pp.157-167, 2024 (SCI-Expanded)
- X. **Influence of Nb and Ta on the corrosion and mechanical properties of CrYN coatings**  
Yaylalı B., Gülten G., Efeoğlu İ., Totik Y., Kelly P., Kulczyk-Malecka J.  
Surface and Coatings Technology, vol.476, 2024 (SCI-Expanded)
- XI. **Effect of thermal oxidation on structural and tribological properties of MoS<sub>2</sub> films**  
Cicek H., Gozubuyuk O., EFEÖĞLU İ.  
LUBRICATION SCIENCE, vol.35, no.2, pp.144-154, 2023 (SCI-Expanded)
- XII. **Investigating the structure, adhesion and tribological properties of Al and Zr-doped TiN coatings with various substrate bias voltage and working pressure**  
SERT Y., KÜÇÜKÖMEROĞLU T., EFEÖĞLU İ.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART J-JOURNAL OF ENGINEERING TRIBOLOGY, vol.235, no.6, pp.1190-1202, 2021 (SCI-Expanded)
- XIII. **Tribological Properties of TiNi/MoS<sub>2</sub> Functional Coatings**  
Cicek H., Akar O. C., EFEÖĞLU İ.  
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, vol.30, no.5, pp.3632-3641, 2021 (SCI-Expanded)
- XIV. **Structure and adhesion properties of TiNi/MoS<sub>2</sub> coatings**  
Cicek H., Akar O. C., EFEÖĞLU İ.  
CERAMICS INTERNATIONAL, vol.47, no.10, pp.14033-14040, 2021 (SCI-Expanded)
- XV. **Hardness, Adhesion, and Wear Performance of Duplex Treatment Coatings of Nitride/TiAlZrN with Different Zr Target Currents**  
SERT Y., KÜÇÜKÖMEROĞLU T., KAHRAMANZADE H., EFEÖĞLU İ.  
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, vol.30, no.1, pp.638-651, 2021 (SCI-Expanded)
- XVI. **Effects of voltage on the components of surface integrity of Al(2)O(3) ceramic coatings on AA2024 by plasma electrolytic oxidation**  
Matin R., Totik Y., Şüküroğlu E. E., Efeoğlu İ., Santos T. G.  
JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY, vol.34, no.18, pp.1971-1981, 2020 (SCI-Expanded)
- XVII. **Characterization of Thin Film Boron Nitride Coatings and Observation of Graphite-Like Boron Nitride**  
Durkaya G., Efeoğlu I., Ersoy K., Cetin B., Kurtuldu H.  
ACTA PHYSICA POLONICA A, vol.135, no.4, pp.743-745, 2019 (SCI-Expanded)
- XVIII. **The adhesion and tribological properties of c-BN films deposited by high power impulse magnetron sputtering**  
Efeoğlu İ., Totik Y., Keleş A., Gulten G., Ersoy K., Durkaya G.  
Ceramics International, vol.45, no.3, pp.3000-3006, 2019 (SCI-Expanded)
- XIX. **The adhesion and tribological properties of c-BN films deposited by high power impulse magnetron sputtering”, Ceramics International, 45, (3), 3000-3006, 2019**  
EFEÖĞLU İ., TOTİK Y., KELEŞ A., GÜLTEN G., Ersoy K., DURKAYA G.  
CERAMICS INTERNATIONAL, vol.45, pp.3000-3006, 2019 (SCI-Expanded)
- XX. **Adhesion and multipass scratch characterization of Ti:Ta-DLC composite coatings**  
Cicek H., KELEŞ A., TOTİK Y., EFEÖĞLU İ.  
DIAMOND AND RELATED MATERIALS, vol.83, pp.80-86, 2018 (SCI-Expanded)
- XXI. **Investigation of high temperature wear resistance of TiCrAlCN/TiAlN multilayer coatings over M2 steel**  
Sukuroglu E. E., BARAN Ö., TOTİK Y., EFEÖĞLU İ.  
JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY, vol.32, no.13, pp.1428-1436, 2018 (SCI-Expanded)
- XXII. **Determining the critical loads of V and Nb doped ternary TiN-based coatings deposited using**

#### **CFUBMS on steels**

KELEŞ A., Cicek H., BARAN Ö., TOTİK Y., EFEOĞLU İ.

SURFACE & COATINGS TECHNOLOGY, vol.332, pp.168-173, 2017 (SCI-Expanded)

- XXIII. **The mechanical and tribological properties of Ti [Nb, V] N films on the Al-2024 alloy**  
BARAN Ö., KELEŞ A., Cicek H., TOTİK Y., EFEOĞLU İ.  
SURFACE & COATINGS TECHNOLOGY, vol.332, pp.312-318, 2017 (SCI-Expanded)
- XXIV. **A comparative study of fatigue properties of TiVN and TiNbN thin films deposited on different substrates**  
Cicek H., BARAN Ö., KELEŞ A., TOTİK Y., EFEOĞLU İ.  
SURFACE & COATINGS TECHNOLOGY, vol.332, pp.296-303, 2017 (SCI-Expanded)
- XXV. **The effect of TiO<sub>2</sub> coating on biological NiTi alloys after micro-arc oxidation treatment for corrosion resistance**  
Sukuroglu E. E., Sukuroglu S., AKAR K., TOTİK Y., EFEOĞLU İ., ARSLAN E.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART H-JOURNAL OF ENGINEERING IN MEDICINE, vol.231, no.8, pp.699-704, 2017 (SCI-Expanded)
- XXVI. **The effect of plasma electrolytic oxidation process parameters on the tribocorrosion properties of TiO<sub>2</sub> coatings**  
Sukuroglu E. E., FARZI H., Sukuroglu S., TOTİK Y., ARSLAN E., EFEOĞLU İ.  
JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY, vol.31, no.12, pp.1361-1373, 2017 (SCI-Expanded)
- XXVII. **Fatigue and adhesion properties of martensite and austenite phases of TiNi shape memory thin films deposited by magnetron sputtering**  
Cicek H., EFEOĞLU İ.  
SURFACE & COATINGS TECHNOLOGY, vol.308, pp.174-181, 2016 (SCI-Expanded)
- XXVIII. **Synergistic effect of bias and target currents for magnetron sputtered MoS<sub>2</sub>-Ti composite films**  
Bulbul F., Efeoglu I.  
MATERIALS TESTING, vol.58, no.5, pp.471-474, 2016 (SCI-Expanded)
- XXIX. **The investigation of adhesion and fatigue properties of TiN/TaN multilayer coatings**  
BARAN Ö., Sukuroglu E. E., EFEOĞLU İ., TOTİK Y.  
JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY, vol.30, no.20, pp.2188-2200, 2016 (SCI-Expanded)
- XXX. **A low temperature in-situ crystalline TiNi shape memory thin film deposited by magnetron sputtering**  
Cicek H., EFEOĞLU İ., TOTİK Y., EZİRMİK K. V., ARSLAN E.  
SURFACE & COATINGS TECHNOLOGY, vol.284, pp.90-93, 2015 (SCI-Expanded)
- XXXI. **Adhesion and tribological properties of TiTaBN coatings with a graded interlayer deposited by pulsed DC biased and continuous dc biased magnetron sputtering**  
BARAN Ö., EFEOĞLU İ., Hardell J., Prakash B.  
JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY, vol.29, no.18, pp.2006-2019, 2015 (SCI-Expanded)
- XXXII. **Investigation of the friction and wear properties of Ti/TiB<sub>2</sub>/MOS<sub>2</sub> graded-composite coatings deposited by CFUBMS under air and vacuum conditions**  
BARAN Ö., BIDEV F., Cicek H., Kara L., EFEOĞLU İ., KÜÇÜKÖMEROĞLU T.  
SURFACE & COATINGS TECHNOLOGY, vol.260, pp.310-315, 2014 (SCI-Expanded)
- XXXIII. **The effect of nitrogen flow rate on TiBN coatings deposited on cold work tool steel**  
Cicek H., BARAN Ö., DEMIRCI E. E., TAHMASEBIAN M., TOTİK Y., EFEOĞLU İ.  
JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY, vol.28, no.12, pp.1140-1148, 2014 (SCI-Expanded)
- XXXIV. **Microstructure, Mechanical, and Scratch Resistance Properties of TiAlCrNbN-Graded Composite Coating Deposited on AISI H13 Steel Substrate with Pulsed DC Closed Field Unbalanced Magnetron Sputtering Method**  
Kara L., KÜÇÜKÖMEROĞLU T., BARAN Ö., EFEOĞLU İ., YAMAMOTO K.  
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, no.4, pp.2123-2131, 2014 (SCI-Expanded)
- XXXV. **Plain and fretting fatigue behavior of Ti6Al4V alloy coated with TiAlN thin film**

- Yildiz F., Yetim A. F., ALSARAN A., ÇELİK A., Kaymaz I., EFEÖĞLU İ.  
TRIBOLOGY INTERNATIONAL, vol.66, pp.307-314, 2013 (SCI-Expanded)
- XXXVI. **Adhesion and fatigue properties of Ti/TiB<sub>2</sub>/MoS<sub>2</sub> graded-composite coatings deposited by closed-field unbalanced magnetron sputtering**  
BIDEV F., BARAN Ö., ARSLAN E., TOTİK Y., EFEÖĞLU İ.  
SURFACE & COATINGS TECHNOLOGY, vol.215, pp.266-271, 2013 (SCI-Expanded)
- XXXVII. **Wear and adhesion resistance of duplex coatings deposited on Ti6Al4V alloy using MAO and CFUBMS**  
ARSLAN E., TOTİK Y., DEMIRCI E. E., EFEÖĞLU İ.  
SURFACE & COATINGS TECHNOLOGY, vol.214, pp.1-7, 2013 (SCI-Expanded)
- XXXVIII. **Investigation of wear, corrosion and tribocorrosion properties of AZ91 Mg alloy coated by micro arc oxidation process in the different electrolyte solutions**  
DEMIRCI E. E., ARSLAN E., EZİRMİK K. V., BARAN Ö., TOTİK Y., EFEÖĞLU İ.  
THIN SOLID FILMS, vol.528, pp.116-122, 2013 (SCI-Expanded)
- XXXIX. **The investigation of the tribocorrosion properties of DLC coatings deposited on Ti6Al4V alloys by CFUBMS**  
ARSLAN E., TOTİK Y., EFEÖĞLU İ.  
PROGRESS IN ORGANIC COATINGS, vol.74, no.4, pp.768-771, 2012 (SCI-Expanded)
- XL. **STRESS-RELIEF SOLUTIONS FOR BRITTLE TiB<sub>2</sub> COATINGS**  
Bulbul F., EFEÖĞLU İ.  
SURFACE REVIEW AND LETTERS, vol.19, no.4, 2012 (SCI-Expanded)
- XLI. **Comparison of structure and tribological properties of MoS<sub>2</sub>-Ti films deposited by biased-dc and pulsed-dc**  
ARSLAN E., TOTİK Y., EFEÖĞLU İ.  
PROGRESS IN ORGANIC COATINGS, vol.74, no.4, pp.772-776, 2012 (SCI-Expanded)
- XLII. **Tribological properties of composite multilayer coating**  
GEBRETSADIK D., HARDELL J., EFEÖĞLU İ., PRAKASH B.  
Tribology - Materials, Surfaces and Interfaces, vol.5, no.3, pp.100-106, 2011 (SCI-Expanded)
- XLIII. **Corrosion behaviour of Ti DLC deposition on prenitrided 316L stainless steel and Ti-6Al-4V alloy**  
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