

## **Prof. Ersin ARSLAN**

### **Personal Information**

**Office Phone:** [+90 442 231 6030](tel:+904422316030) Extension: 6030

**Web:** <https://avesis.atauni.edu.tr/earslan>

**Address:** Atatürk Üniversitesi Mühendislik Fakültesi Metalurji ve Malzeme Mühendisliği Yakutiye/ERZURUM

### **International Researcher IDs**

ORCID: 0000-0002-7071-9497

Yoksis Researcher ID: 22363

### **Education Information**

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Makina Mühendisliği , Turkey 1997 - 2004

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Makina Mühendisliği , Turkey 1994 - 1997

Undergraduate, Firat University, Faculty Of Engineering, Makina Mühendisliği , Turkey 1984 - 1989

### **Dissertations**

Doctorate, Deposition on Different Steel Types of MoS<sub>2</sub>-Ti Composite Thin Film: Charecterization of Mechanical-Tribological-Structure Properties, Ataturk University, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, 2003  
Postgraduate, Seramik filmlerin ıslı işlemleri, mikroyapı ve difüzyon derecesi ilişkisi, Ataturk University, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, 1997

### **Research Areas**

Mechanical Engineering, Construction and Manufacturing, Material, Metallurgical and Materials Engineering, Material science and engineering, Testing and Control of Materials, Composites, Biomaterials, Plating, Material Characterization, Engineering and Technology

### **Academic Titles / Tasks**

Professor, Ataturk University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, 2015 - Continues

### **Courses**

Malzeme Laboratuvarı , Undergraduate, 2018 - 2019

Talaşlı İmalat Yöntemleri , Undergraduate, 2018 - 2019

Danışmanlık , Postgraduate, 2018 - 2019

Seramik ve Kompozit Malzemeler , Undergraduate, 2018 - 2019

İleri Toz Metalurjisi Teknikleri , Doctorate, 2018 - 2019

## AÖVİSİNG İNESESİ

ARSLAN E., Ti6Al4V ELİ ALAŞIMI ÜZERİNE NANOKOMPOZİT TiO<sub>2</sub>:n-HA KAPLAMALARIN PEO YÖNTEMİ İLE BüYÜTÜLMESİ; YAPISAL-KOROZYON-BİYOAKTİVİTE ÖZELLİKLERİNİN KARAKTERİZASYONU, Postgraduate, F.SONGUR(Student), 2015

Arslan E., Peo yöntemi ile AA2014 alaşımı üzerine h-BN/Al<sub>2</sub>O<sub>3</sub> nanokompozit kaplamaların büyütülmesi; yapışal ve tribolojik özelliklerinin karakterizasyonu, Postgraduate, T.ÇAĞRI(Student), 2015

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

- I. **Mechanical Properties of Polymer-Infiltrated Fluorapatite Glass Ceramics Fabricated from Clam Shell and Soda Lime Silicate Glass**  
KUL E., Matori K. A., Karadeniz Ş., Arslan E., ERTUĞRUL M.  
Materiale Plastice, vol.60, no.1, pp.128-136, 2023 (SCI-Expanded)
- II. **Microstructural Characterization and Wear Behavior of Porous Equimolar TiNbBzr Medium-Entropy Alloys Scaffolds Produced by Mechanical Alloying**  
Karadeniz S., Arslan E.  
MATERIALS RESEARCH-IBERO-AMERICAN JOURNAL OF MATERIALS, vol.25, 2022 (SCI-Expanded)
- III. **Plasma electrolytic oxidation of Ti-6Al-4V alloys in nHA/GNS containing electrolytes for biomedical applications: The combined effect of the deposition frequency and GNS weight percentage**  
Yigit O., DİKİCİ B., Ozdemir N., ARSLAN E.  
Surface and Coatings Technology, vol.415, 2021 (SCI-Expanded)
- IV. **The plasma electrolytic oxidation (PEO) coatings to enhance in-vitro corrosion resistance of Ti-29Nb-13Ta-4.6Zr alloys: The combined effect of duty cycle and the deposition frequency**  
SONGUR F., DİKİCİ B., Niinomi M., ARSLAN E.  
SURFACE & COATINGS TECHNOLOGY, vol.374, pp.345-354, 2019 (SCI-Expanded)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **Adhesion and fatigue properties of Ti/TiB<sub>2</sub>/MoS<sub>2</sub> graded-composite coatings deposited by closed-field unbalanced magnetron sputtering**  
BİDEV F., BARAN Ö., ARSLAN E., TOTİK Y., EFEOĞLU İ.  
SURFACE & COATINGS TECHNOLOGY, vol.215, pp.266-271, 2013 (SCI-Expanded)
- IX. **Wear and adhesion resistance of duplex coatings deposited on Ti6Al4V alloy using MAO and CFUBMS**  
ARSLAN E., TOTİK Y., DEMIRCI E. E., EFEOĞLU İ.  
SURFACE & COATINGS TECHNOLOGY, vol.214, pp.1-7, 2013 (SCI-Expanded)
- X. **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., EFEOĞLU İ.  
THIN SOLID FILMS, vol.528, pp.116-122, 2013 (SCI-Expanded)
- XI. **The investigation of the tribocorrosion properties of DLC coatings deposited on Ti6Al4V alloys by**

## **CFUBMS**

ARSLAN E., TOTİK Y., EFEOĞLU İ.

PROGRESS IN ORGANIC COATINGS, vol.74, no.4, pp.768-771, 2012 (SCI-Expanded)

- XII. **Comparison of structure and tribological properties of MoS<sub>2</sub>-Ti films deposited by biased-dc and pulsed-dc**

ARSLAN E., TOTİK Y., EFEOĞLU İ.

PROGRESS IN ORGANIC COATINGS, vol.74, no.4, pp.772-776, 2012 (SCI-Expanded)

- XIII. **Effect of annealing on adhesion of TiB<sub>2</sub> films deposited by pulsed magnetron sputtering**

ARSLAN E., TOTİK Y., ÇELİK A., EFEOĞLU İ.

SURFACE ENGINEERING, vol.26, no.8, pp.567-570, 2010 (SCI-Expanded)

- XIV. **High temperature friction and wear behavior of MoS(2)/Nb coating in ambient air**

ARSLAN E., TOTİK Y., BAYRAK O. Ü., EFEOĞLU İ., ÇELİK A.

JOURNAL OF COATINGS TECHNOLOGY AND RESEARCH, vol.7, no.1, pp.131-137, 2010 (SCI-Expanded)

- XV. **High temperature wear behavior of aluminum oxide layers produced by AC micro arc oxidation**

ARSLAN E., TOTİK Y., DEMİRCİ E., Vangolu Y., ALSARAN A., EFEOĞLU İ.

Surface and Coatings Technology, vol.204, pp.829-833, 2009 (SCI-Expanded)

- XVI. **CHARACTERIZATION OF TiB<sub>2</sub> COATING ADHERENCE BY A MULTI-PASS SCRATCH TESTING**

TOTİK Y., ARSLAN E., EFEOĞLU İ., Kaymaz I.

SURFACE REVIEW AND LETTERS, vol.16, no.3, pp.329-335, 2009 (SCI-Expanded)

- XVII. **Evaluation of adhesion and fatigue of MoS<sub>2</sub>-Nb solid-lubricant films deposited by pulsed-dc magnetron sputtering**

ARSLAN E., BARAN O., EFEOĞLU İ., TOTİK Y.

SURFACE & COATINGS TECHNOLOGY, vol.202, no.11, pp.2344-2348, 2008 (SCI-Expanded)

- XVIII. **The effect of bias voltage and working pressure on S/Mo ratio at MoS<sub>2</sub>-Ti composite films**

BULBUL F., Efeoglu I., Arslan E.

APPLIED SURFACE SCIENCE, vol.253, no.9, pp.4415-4419, 2007 (SCI-Expanded)

- XIX. **The effect of deposition parameters and Ti content on structural and wear properties of MoS<sub>2</sub>-Ti coatings**

Arslan E., BULBUL F., ALSARAN A., Celik A., Efeoglu I.

WEAR, vol.259, pp.814-819, 2005 (SCI-Expanded)

- XX. **Effect of heat treatment of TiN films deposited by CFUBMS**

Arslan E., Efeoglu I.

MATERIALS CHARACTERIZATION, vol.53, no.1, pp.29-34, 2004 (SCI-Expanded)

- XXI. **The structural and tribological properties of MoS<sub>2</sub>-Ti composite solid lubricants**

Arslan E., BULBUL F., Efeoglu I.

TRIBOLOGY TRANSACTIONS, vol.47, no.2, pp.218-226, 2004 (SCI-Expanded)

## **Articles Published in Other Journals**

- I. **Effect of MGZN<sub>2</sub> addition on the sintering density, microstructure and hardness of aluminum alloys prepared by powder metallurgy method**

ÇARDAKLI İ. S., Karadeniz S., Arslan E., Gok D. A.

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BİLİMLERİ DERGİSİ, vol.41, no.3, pp.538-544, 2023 (ESCI)

- II. **The Effect of CeO<sub>2</sub> Nanoparticles Addition to PEO Coatings on Corrosion Behavior**

Yilmaz A. M., SONGUR F., ARSLAN E., DİKİCİ B.

JOURNAL OF POLYTECHNIC-POLİTEKNİK DERGİSİ, vol.23, no.4, pp.1285-1295, 2020 (ESCI)

- III. **PEO Kaplamalara CeO<sub>2</sub> Nanopartikül İlavesiinin Korozyon Davranışına Etkisi**

Yilmaz A. M., SONGUR F., ARSLAN E., DİKİCİ B.

Journal of Polytechnic, 2020 (ESCI)

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **PEO Yöntemiyle AA2014 Alüminyum Alaşımı Üzerine Büyütülen h-BN/Al2O3 Nanokompozit Kaplamaların Aşınma Özelliklerinin Karakterizasyonu**  
Şenocak T. Ç., Arslan E.  
International Online Conferences on Engineering and Natural Sciences IOCENS'21, Gümüşhane, Turkey, 05 July 2021
- II. **THE EFFECT OF ELECTROLYTE CONCENTRATION ON MICROSTRUCTURE AND CORROSION BEHAVIOR OF AA7075ALLOYS TREATED VIA PLASMA ELECTROLYTIC OXIDATION**  
SONGUR F., ARSLAN E., DİKİCİ B., KOCADAĞİSTAN M. E.  
The International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology in Cappadocia / TURKEY (IMSMATEC 2019), 21 - 23 June 2019
- III. **THE EFFECT OF ELECTROLYTE CONCENTRATION ON MICROSTRUCTURE AND CORROSION BEHAVIOR OF AA7075ALLOYS TREATED VIA PLASMA ELECTROLYTIC OXIDATION**  
Songur F., Arslan E., Dikici B., Kocadağıstan M. E.  
The International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology in Cappadocia / TURKEY (IMSMATEC 2019), Nevşehir, Turkey, 21 - 23 June 2019, pp.1145-1149
- IV. **Characterization of PEO-Deposited TiO<sub>2</sub>/HA NanocompositeCoatings**  
SONGUR F., ARSLAN E., DİKİCİ B.  
19th International Metallurgy and Materials Congress, İstanbul, Turkey, 25 - 27 October 2018
- V. **Characterization of PEO-deposited TiO<sub>2</sub>/HA nanocomposite coatings**  
SONGUR F., ARSLAN E., DİKİCİ B.  
19th International Metallurgy & Materials Congress (IMMC 2018), İstanbul, Turkey, 25 - 27 October 2018, pp.761-764
- VI. **Investigation of adhesionfatigue properties of Micro Arc Oxidation Coatings on AZ91 Magnesium Alloys**  
ŞÜKÜROĞLU E. E., ARSLAN E., EFEOĞLU İ., TOTİK Y.  
ICMCTF2016, 25 May 2016
- VII. **Investigation of In Vitro Properties NiTi After MAO Coatings**  
ŞÜKÜROĞLU S., TOTİK Y., ŞÜKÜROĞLU E. E., ARSLAN E., EFEOĞLU İ.  
. ICMCTF2016, 25 May 2016
- VIII. **Investigation of In Vitro Properties of NiTi After MAO Coatings**  
ŞÜKÜROĞLU S., ŞÜKÜROĞLU E. E., TOTİK Y., ARSLAN E., EFEOĞLU İ.  
ICMCTF 2016, 25 - 28 April 2016
- IX. **The Investigation Of Corrosion Behavior Of Az91 Magnesium Coated With Micro Arc Oxidation Mao Method**  
Yuca M., ŞÜKÜROĞLU E. E., GAVGALI M., GAVGALI E., ŞÜKÜROĞLU S., TOTİK Y., ARSLAN E.  
ICMCTF 2016, 25 - 28 April 2016
- X. **Investigation of Adhesion and Fatigue Properties of Micro Arc Oxidation Coatings on AZ91 Magnesium Alloys**  
ŞÜKÜROĞLU E. E., ARSLAN E., EFEOĞLU İ., TOTİK Y., ŞÜKÜROĞLU S.  
ICTMCF 2016, 25 - 28 April 2016
- XI. **Investigation of adhesionfatigue properties of Micro-Arc Oxidation Coatings on AZ91 Magnesium Alloys**  
Demirci E., ARSLAN E., EFEOĞLU İ., TOTİK Y.  
ICMCTF16, 43th Int. Conf. on Metallurgical Coatings and Thin Films, San Diago, United States Of America, 25 - 29 April 2016
- XII. **The Effect of TiO<sub>2</sub> Coatings on NiTi Alloys After MAO Treatment for Corrosion Resistance**  
Akar K., TOTİK Y., EFEOĞLU İ., Demirci E., ARSLAN E., Şüküroğlu S.  
ICMCTF16, 43th Int. Conf. on Metallurgical Coatings and Thin Films, San Diago, United States Of America, 25 - 29 April 2016

- XIII. **Investigation of In-Vitro Properties NiTi After MAO Coatings**  
Şüküroğlu S., TOTİK Y., Demirci E., ARSLAN E., EFEOĞLU İ.  
ICMCTF16, 43th Int. Conf. on Metallurgical Coatings and Thin Films, San Diago, United States Of America, 25 - 29 April 2016
- XIV. **Investigation of In-Vitro Properties NiTi After MAO Coatings**  
Şüküroğlu S., TOTİK Y., Demirci E., ARSLAN E., EFEOĞLU İ.  
ICMCTF16, 43th Int. Conf. on Metallurgical Coatings and Thin Films, San Diago, United States Of America, 25 - 29 April 2016
- XV. **The Effect of TiO<sub>2</sub> Coatings on NiTi Alloys After MAO Treatment for Corrosion Resistance**  
Akar K., TOTİK Y., EFEOĞLU İ., Demirci E., ARSLAN E., Şüküroğlu S.  
ICMCTF16, 43th Int. Conf. on Metallurgical Coatings and Thin Films, San Diago, United States Of America, 25 - 29 April 2016
- XVI. **Investigation of adhesionfetigue properties of Micro-Arc Oxidation Coatings on AZ91 Magnesium Alloys**  
Demirci E., ARSLAN E., EFEOĞLU İ., TOTİK Y.  
ICMCTF16, 43th Int. Conf. on Metallurgical Coatings and Thin Films, San Diago, United States Of America, 25 - 29 April 2016
- XVII. **Tribocorrosion Properties of MAO DLC Coatings Using a DuplexProcess on Cp Ti Alloys**  
ŞÜKÜROĞLU E. E., ŞÜKÜROĞLU S., ARSLAN E., TOTİK Y., EFEOĞLU İ.  
The International Conference on Metallurgical Coatings and Thin Films (ICMCTF), 18 - 23 May 2015
- XVIII. **Tribocorrosion Properties of Metal Doped DLC Thin Films**  
ARSLAN E., TOTİK Y., EZİRMİK K. V., ŞÜKÜROĞLU E. E., ÇİÇEK H., KELEŞ A., EFEOĞLU İ.  
The International Conference on Metallurgical Coatings and Thin Films (ICMCTF), 18 - 23 May 2015
- XIX. **High Temperature Oxidation of CrAlYN CrY Thin Films andAdhesion Properties**  
TAHMASEBİAN MYANDOAB M., EFEOĞLU İ., EZİRMİK K. V., TOTİK Y., ARSLAN E., ÇİÇEK H.  
ICMCTF 2015, 21 - 24 April 2015
- XX. **Low Temperature In situ Crystallization TiNi ShapeMemory Thin Film Deposited by Magnetron Sputtering**  
ÇİÇEK H., EFEOĞLU İ., TOTİK Y., EZİRMİK K. V., ARSLAN E.  
ICMCTF 2015, 21 - 24 April 2015
- XXI. **Friction and Wear Properties of Ti:Ta Doped DLC Coatings**  
EFEOĞLU İ., TOTİK Y., EZİRMİK K. V., ARSLAN E., KELEŞ A., Demirci E.  
ICMCTF15, 42nd Int. Conf. on Metallurgical Coatings and Thin Films, San Diago, United States Of America, 20 - 24 April 2015
- XXII. **Tribocorrosion Properties of Metal Doped-DLC Coatings**  
ARSLAN E., TOTİK Y., EZİRMİK K. V., Demirci E., Çiçek H., KELEŞ A., EFEOĞLU İ.  
ICMCTF15, 42nd Int. Conf. on Metallurgical Coatings and Thin Films, San Diago, United States Of America, 20 - 24 April 2015
- XXIII. **Tribocorrosion Properties of Metal Doped-DLC Coatings**  
ARSLAN E., TOTİK Y., EZİRMİK K. V., Demirci E., Çiçek H., KELEŞ A., EFEOĞLU İ.  
ICMCTF15, 42nd Int. Conf. on Metallurgical Coatings and Thin Films, San Diago, United States Of America, 20 - 24 April 2015
- XXIV. **Friction and Wear Properties of Ti:Ta Doped DLC Coatings**  
EFEOĞLU İ., TOTİK Y., EZİRMİK K. V., ARSLAN E., KELEŞ A., Demirci E.  
ICMCTF15, 42nd Int. Conf. on Metallurgical Coatings and Thin Films, San Diago, United States Of America, 20 - 24 April 2015
- XXV. **The Tribological Properties of TiAlN TiCrN Multilayer Coatings Produced by CFUBMS**  
LAŁOĞLU Ç., EFEOĞLU İ., TOTİK Y., ARSLAN E., EZİRMİK K. V., Şüküroğlu E. E., KELEŞ A.  
2. Uluslararası Yüzey İşlemleri Sempozyumu 2014, İstanbul, Turkey, 25 - 27 June 2014, pp.55
- XXVI. **Effect of Deposition Parameters on the Tribological Properties of Ti DLC Films**  
Kurucu K., EFEOĞLU İ., TOTİK Y., ARSLAN E., EZİRMİK K. V., Şüküroğlu E. E., ÇİÇEK H.

2. Uluslararası Yüzey İşlemleri Sempozyumu 2014, İstanbul, Turkey, 25 - 27 June 2014, pp.56
- XXVII. **Effect of Deposition Parameters on the Tribological Properties of Ti DLC Films**  
Kurucu K., EFEOĞLU İ., TOTİK Y., ARSLAN E., EZİRMİK K. V., Şüküroğlu E. E., ÇİÇEK H.  
2. Uluslararası Yüzey İşlemleri Sempozyumu 2014, İstanbul, Turkey, 25 - 27 June 2014, pp.56
- XXVIII. **The Tribological Properties of TiAlN TiCrN Multilayer Coatings Produced by CFUBMS**  
LALOĞLU Ç., EFEOĞLU İ., TOTİK Y., ARSLAN E., EZİRMİK K. V., Şüküroğlu E. E., KELEŞ A.  
2. Uluslararası Yüzey İşlemleri Sempozyumu 2014, İstanbul, Turkey, 25 - 27 June 2014, pp.55
- XXIX. **. Investigation of Adhesion and Corrosion Properties of CrAlYN/CrY Multilayer Coatings Deposited by Unbalanced Magnetron Sputtering**  
Tahmasabian M., EFEOĞLU İ., EZİRMİK K. V., ARSLAN E., TOTİK Y., Demirci E., Baran Ö.  
ICMCTF14, 41th Int. Conf. on Metallurgical Coatings and Thin Films, San Diago, United States Of America, 28 April - 02 May 2014
- XXX. **Investigation of Adhesion and Corrosion Properties of CrAlYN CrY Multilayer Coatings Deposited by Unbalanced Magnetron Sputtering**  
Tahmasebian Myandoab M., EFEOĞLU İ., EZİRMİK K. V., ARSLAN E., TOTİK Y., Şüküroğlu E. E., BARAN Ö.  
International Conference on MetallurgicalCoatings and Thin Films ICMCTF 2014, San Diego, United States Of America, 28 April - 02 May 2014, pp.55
- XXXI. **Investigation of Wear Corrosion and Tribocorrosion Properties of AZ91 Mg Alloy Coated by Micro arc Oxidation Process in the Different Electrolyte Solution**  
ŞÜKÜROĞLU E. E., ARSLAN E., EZİRMİK K. V., BARAN Ö., TOTİK Y., EFEOĞLU İ.  
International Conference on Metallurgical Coatings and Thin Films ICMCTF 2012, San Diego, 23 - 27 April 2012
- XXXII. **Influence of Unipolar and Bipolar Voltage Modes on Corrosion Resistance of Cp-Ti Alloy coated by using Micro-arc Oxidation Process**  
Demirci E., ARSLAN E., EZİRMİK K. V., TOTİK Y., EFEOĞLU İ.  
ICMCTF2012, 39th Int. Conf. on Metallurgical Coatings and Thin Films, San Diago, United States Of America, 23 - 27 April 2012, pp.1
- XXXIII. **Influence of Unipolar and Bipolar Voltage Modes on Corrosion Resistance of Cp-Ti Alloy coated by using Micro-arc Oxidation Process**  
Demirci E., ARSLAN E., EZİRMİK K. V., TOTİK Y., EFEOĞLU İ.  
ICMCTF2012, 39th Int. Conf. on Metallurgical Coatings and Thin Films, San Diago, United States Of America, 23 - 27 April 2012, pp.1
- XXXIV. **İnsan vücutundan kullanılan farklı implantlara uygulanan biyomekanik testler ve ülkemizin biyomekanik test ihtiyacına genel bir bakış**  
KOVACI H., BAYRAK O. Ü., HACISALIHOGLU İ., VANGÖLÜ S. Y., ALBAYRAK C., BARAN O., ALSARAN A., ÇELİK A., KAYMAZ İ., EFEOĞLU İ., et al.  
IV. Ulusal Tibbi Cihazlar İmalat Sanayi Kongre ve Sergisi, Samsun, Turkey, 23 - 24 September 2011, pp.39-45
- XXXV. **Phase Transformation of MoS<sub>2</sub>-Nb Composite Films at the High Temperatures**  
EFEOĞLU İ., Altıntaş S., ARSLAN E., Baran Ö., Uğur D.  
ICMCTF2011, 38th Int. Conf. on Metallurgical Coatings and Thin Films, San Diago, United States Of America, 02 May 2011 - 06 May 2010, pp.1
- XXXVI. **The Tribocorrosion Behaviour of Cp-Titanium Deposited by Micro Arc Oxidation at Differant Frequencies**  
Demirci E., ARSLAN E., TOTİK Y., Baran Ö., EFEOĞLU İ.  
ICMCTF11, 38th, Int. Conf. on Metallurgical Coatings and Thin Films, San Diago, United States Of America, 2 - 06 May 2011, pp.1
- XXXVII. **Phase Transformation of MoS<sub>2</sub>-Nb Composite Films at the High Temperatures**  
EFEOĞLU İ., Altıntaş S., ARSLAN E., Baran Ö., Uğur D.  
ICMCTF2011, 38th Int. Conf. on Metallurgical Coatings and Thin Films, San Diago, United States Of America, 02 May 2011 - 06 May 2010, pp.1
- XXXVIII. **The Tribocorrosion Behaviour of Cp-Titanium Deposited by Micro Arc Oxidation at Differant Frequencies**

- Demirci E., ARSLAN E., TOTİK Y., Baran Ö., EFEOĞLU İ.  
ICMCTF11, 38th, Int. Conf. on Metallurgical Coatings and Thin Films, San Diago, United States Of America, 2 - 06 May 2011, pp.1
- XXXIX. **Optimaziton of Micro arc Oxidation Processes for Corrosion Resistance of Ti6Al4V alloys by using Taguchi Method**  
ŞÜKÜROĞLU E. E., ARSLAN E., TOTİK Y., EFEOĞLU İ.  
International Conference on Metallurgical Coatings and Thin Films, 26 - 30 April 2010
- XL. **Optimization of Micro Arc Oxidation Processes for Corrosion Resistance of Ti6Al4V Alloys by Using Taguchi Method**  
Demirci E., ARSLAN E., TOTİK Y., EFEOĞLU İ.  
ICMCTF2010, 37th Int. Conf. on Metallurgical Coatings and Thin Films, San Diego, San Diago, United States Of America, 26 - 30 April 2010, pp.1
- XLI. **The investigation of Scratch Behavior of Composed Structured TiBN Hard Films Deposited on Cold Work Tool Steel at The Different Nitrogen Rates**  
Çiçek H., Baran Ö., TOTİK Y., ARSLAN E., EFEOĞLU İ.  
ICMCTF10, 37th Int. Conf. on Metallurgical Coatings and Thin Films, San Diago, United States Of America, 26 - 30 April 2010, pp.1
- XLII. **Optimization of Micro Arc Oxidation Processes for Corrosion Resistance of Ti6Al4V Alloys by Using Taguchi Method**  
Demirci E., ARSLAN E., TOTİK Y., EFEOĞLU İ.  
ICMCTF2010, 37th Int. Conf. on Metallurgical Coatings and Thin Films, San Diago, United States Of America, 26 - 30 April 2010, pp.1
- XLIII. **The investigation of Scratch Behavior of Composed Structured TiBN Hard Films Deposited on Cold Work Tool Steel at The Different Nitrogen Rates**  
Çiçek H., Baran Ö., TOTİK Y., ARSLAN E., EFEOĞLU İ.  
ICMCTF10, 37th Int. Conf. on Metallurgical Coatings and Thin Films, San Diago, United States Of America, 26 - 30 April 2010, pp.1
- XLIV. **Optimazation of the Coating Parametersfor Micro Arc Oxidation of Cp Ti**  
VANGÖLÜ S. Y., ALSARAN A., ARSLAN E., TOTİK Y.  
International Conference on Metallurgical Coatings and Thin Films, 27 April - 01 May 2009
- XLV. **High temperature wear behavior of aluminum oxide layers produced by AC micro arc oxidation**  
ARSLAN E., TOTİK Y., VANGÖLÜ S. Y., ALSARAN A., EFEOĞLU İ.  
ICMCTF-The International Conference on Metallurgical Coatings and Thin Films, 27 April - 01 May 2009
- XLVI. **High Temperature Wear Behaviour of Aluminium Oxide Coatings Produced by Micro Arc Oxidation**  
ARSLAN E., TOTİK Y., VANGÖLÜ S. Y., ALSARAN A., EFEOĞLU İ.  
International Conference on Metallurgical Coatings and Thin Films, 26 April - 01 May 2009
- XLVII. **Optimization of the coating parameters for micro arc oxidation of Cp Ti**  
VANGÖLÜ S. Y., ARSLAN E., TOTİK Y., ŞÜKÜROĞLU E. E., ALSARAN A.  
ICMCTF-The International Conference on Metallurgical Coatings and Thin Films, 27 April - 01 May 2009
- XLVIII. **High temperature wear behaviour aluminium oxide coatings prodoed by micro arc oxidation**  
ARSLAN E., TOTİK Y., VANGÖLÜ S. Y., ALSARAN A., EFEOĞLU İ.  
ICMCTF09, 36th Int. Conf. on Metallurgical Coatings and Thin Films, San Diago, United States Of America, 27 April - 01 May 2009, pp.1
- XLIX. **High temperature wear behaviour aluminium oxide coatings prodoed by micro arc oxidation**  
ARSLAN E., TOTİK Y., VANGÖLÜ S. Y., ALSARAN A., EFEOĞLU İ.  
ICMCTF09, 36th Int. Conf. on Metallurgical Coatings and Thin Films, San Diago, United States Of America, 27 April - 01 May 2009, pp.1
- L. **The effect if Annealing on the adhesion of TiB<sub>2</sub> films deposited by CFUBMS**  
ARSLAN E., TOTİK Y., ÇELİK A., EFEOĞLU İ.  
13 th Nordic Symposium on Tribology, 10 - 13 June 2008
- LI. **High Temperature friction and wear behaviour of MoS<sub>2</sub> Nb coating in ambient air**

- ARSLAN E., TOTİK Y., BAYRAK Ö., EFEOĞLU İ., ÇELİK A.  
13 th Nordic Symposium on Tribology, 10 - 13 June 2008
- LII. **The Investigation of Behaviour Using Multi Mode Scratch Test of TiB<sub>2</sub> Films deposited by CFUBMS**  
TOTİK Y., ARSLAN E., EFEOĞLU İ., KAYMAZ İ.  
13 th Nordic Symposium on Tribology, 10 - 13 June 2008
- LIII. **The effect of annealing on the adhesion of TiB<sub>2</sub> films deposited by CFUBMS"**  
ARSLAN E., TOTİK Y., ÇELİK A., EFEOĞLU İ.  
NORDRIB 2008, 13th Nordic Symposium on Tribology, Tempere, Finland, 10 - 13 June 2008, pp.1
- LIV. **The investigation of fatigue behaviour using multi-mode scratch test of TiB<sub>2</sub> films deposited by CFUBMS**  
TOTİK Y., ARSLAN E., EFEOĞLU İ., KAYMAZ İ.  
NORDRIB 2008, 13th Nordic Symposium on Tribology, Tempere, Finland, 10 - 13 June 2008, pp.1
- LV. **The investigation of fatigue behaviour using multi-mode scratch test of TiB<sub>2</sub> films deposited by CFUBMS**  
TOTİK Y., ARSLAN E., EFEOĞLU İ., KAYMAZ İ.  
NORDRIB 2008, 13th Nordic Symposium on Tribology, Tempere, Finland, 10 - 13 June 2008, pp.1
- LVI. **Tribological characterization of Me(Nb-Ti)DLC films grown by pulsed-dc magnetron sputtering**  
EFEOĞLU İ., Uğur D., Baran Ö., ARSLAN E., Altıntaş S.  
E-MRS Spring Meeting, Strasbourg, France, 26 - 30 May 2008, pp.1
- LVII. **Tribological characterization of Me(Nb-Ti)DLC films grown by pulsed-dc magnetron sputtering**  
EFEOĞLU İ., Uğur D., Baran Ö., ARSLAN E., Altıntaş S.  
E-MRS Spring Meeting, Strasbourg, France, 26 - 30 May 2008, pp.1
- LVIII. **MoS<sub>2</sub> Katı Yağlayıcı Filmlerin Nb İlavesi ile Farklı Atmosfer Şartlarındaki Tribolojik Özelliklerin İyileştirilmesi**  
EFEOĞLU İ., ARSLAN E., BARAN Ö., ALTINTAŞ S.  
IV. Makina Tasarım ve İmalat Teknolojileri Kongresi, Turkey, 24 - 25 November 2007
- LIX. **Ortopedik Implant ve Cerrahi Tıp ve Dişçilik Takımlarının Dubleks Yüzey İşlemleri Yapısal Mekanik ve Tribolojik Özelliklerin Karakterizasyonu**  
EFEOĞLU İ., ÇELİK A., KARSAN O., GAVGALI M., ALSARAN A., TOTİK Y., KAYMAZ İ., ARSLAN E., YETİM A. F., YILDIZ F., et al.  
II. Ulusal Tibbi Cihazlar İmalatı Sanayi Kongre ve Sergisi, Turkey, 19 - 20 October 2007
- LX. **The effect of annealing on the adhesion of TiB<sub>2</sub> films deposited by CFUBMS**  
ARSLAN E., TOTİK Y., ÇELİK A., EFEOĞLU İ.  
NORDRIB 2008, 13th Nordic Symposium on Tribology, Tempere, Finland, 10 July 2007 - 13 July 2008, pp.1
- LXI. **Evaluation of adhesion and fatigue behaviours of MoS<sub>2</sub>-Nb solid lubricant films**  
EFEOĞLU İ., ARSLAN E., Baran Ö., TOTİK Y.  
E-MRS Spring Meeting, Strasborg, France, 28 May - 01 June 2007, pp.1
- LXII. **Evaluation of adhesion and fatigue behaviours of MoS<sub>2</sub>-Nb solid lubricant films**  
EFEOĞLU İ., ARSLAN E., Baran Ö., TOTİK Y.  
E-MRS Spring Meeting, Strasborg, France, 28 May - 01 June 2007, pp.1
- LXIII. **Darbeli Dc Manyetik Alanda Sıçratma Yöntemi ile Üretilen MoS<sub>2</sub> Ti Filmin Yapısal ve Tribolojik Özellikleri**  
BÜLBÜL F., EFEOĞLU İ., ARSLAN E., ALSARAN A.  
11.th Materials Symposium, Turkey, 19 - 21 April 2006
- LXIV. **MoS<sub>2</sub> Ti Katı Yağlayıcı İnce Film Kaplamalar**  
EFEOĞLU İ., BÜLBÜL F., ARSLAN E., KARAKAN M., YETİM A. F.  
11 th International Materials Symposium, Turkey, 19 - 21 April 2006
- LXV. **MoS<sub>2</sub>-Ti Katı Yağlayıcı İnce Film Kaplamalar**  
EFEOĞLU İ., BÜLBÜL F., ARSLAN E., KARAKAN M., YETİM A. F.  
11. Uluslararası Denizli Malzeme Sempozyumu, Denizli, Turkey, 19 - 21 April 2006, pp.585-589
- LXVI. **MoS<sub>2</sub>-Ti Katı Yağlayıcı İnce Film Kaplamalar**

- EFEOĞLU İ., BÜLBÜL F., ARSLAN E., KARAKAN M., YETİM A. F.  
 11. Uluslararası Denizli Malzeme Sempozyumu, Denizli, Turkey, 19 - 21 April 2006, pp.585-589
- LXVII. **CFUBMS ile Büyütülmüş MoS<sub>2</sub> Ti Kompozit Kaplamaların Sürtünme ve Aşınma Özellikleri**  
 ARSLAN E., BÜLBÜL F., EFEOĞLU İ.  
 10. Denizli Malzeme Sempzyumu ve Sergisi, Turkey, 14 - 16 April 2004
- LXVIII. **MoS<sub>2</sub>-Ti composite coatings deposited by closed-field unbalanced magnetron sputter ion plating: Mechanical-tribological-structural characterization**  
 EFEOĞLU İ., ARSLAN E., BÜLBÜL F.  
 ICMCMTF02, Int. Conf. on Metallurgical Coatings and Thin Films0, San Diago, United States Of America, 22 - 26 April 2002, pp.1
- LXIX. **MoS<sub>2</sub>-Ti composite solid lubricant deposited by biased-dc and pulsed-dc**  
 EFEOĞLU İ., BÜLBÜL F., ARSLAN E.  
 ICMCMTF02, Int. Conf. on Metallurgical Coatings and Thin Films0, San Diago, United States Of America, 22 - 26 April 2002, pp.1
- LXX. **MoS<sub>2</sub>-Ti composite solid lubricant deposited by biased-dc and pulsed-dc**  
 EFEOĞLU İ., BÜLBÜL F., ARSLAN E.  
 ICMCMTF02, Int. Conf. on Metallurgical Coatings and Thin Films0, San Diago, United States Of America, 22 - 26 April 2002, pp.1
- LXXI. **MoS<sub>2</sub> Composite Coatings Deposited by Closed Field Unbalanced Magnetron Sputter Ion Plating**  
**Mechanical Tribological Structural Characterization**  
 EFEOĞLU İ., ARSLAN E., BÜLBÜL F.  
 International Conference on Consumer Electronics, 5 - 11 August 2001
- LXXII. **MoS<sub>2</sub> composite coatings deposited by closed field unbalanced magnetron sputter ion plating:**  
**Mechanical-Tribological-Structural Characterization**  
 EFEOĞLU İ., ARSLAN E., BÜLBÜL F.  
 ICCE/8, Tenerife Island, Spain, 5 - 11 August 2001, pp.1
- LXXIII. **Nitrür Seramik Filmlerin Mekanik ve Tribolojik Özellikleri**  
 EFEOĞLU İ., ÇELİK A., ARSLAN E.  
 MAMTEK 99, Makine Malzemesi ve İmalat Teknolojisi Sempozyumu, Turkey, 17 - 19 November 1999
- LXXIV. **TiN filmi Isıl İşlemi Mikroyapı ve Difüzyon Derecesi İlişkisi**  
 EFEOĞLU İ., ÇELİK A., ARSLAN E.  
 MAMTEK 99, Makine Malzemesi ve İmalat Teknolojisi Sempozyumu, Turkey, 17 - 19 November 1999

## Supported Projects

KOCADAĞİSTAN M. E., ŞENOCAK T. Ç., ARSLAN E., Project Supported by Higher Education Institutions, PEO YÖNTEMİ İLE AA2014 ALAŞIMI ÜZERİNE H-BN/AL203 NANOKOMPOZİT KAPLAMALARIN BÜYÜTÜLMESİ; TRİBOLOJİK VE YAPISAL ÖZELLİKLERİNİN KARAKTERİZASYONU, 2016 - 2017

KOCADAĞİSTAN M. E., ARSLAN E., SONGUR F., Project Supported by Higher Education Institutions, PEO YÖNTEMİ KULLANILARAK Tİ6AL4V ELİ ALAŞIMI ÜZERİNE NANOKOMPOZİT TİO<sub>2</sub>/HA KAPLAMALARIN BÜYÜTÜLMESİ VE YAPISAL ÖZELLİKLERİNİN ARAŞTIRILMASI, 2016 - 2017

KOCADAĞİSTAN M. E., ARSLAN E., ŞENOCAK T. Ç., Project Supported by Higher Education Institutions, YÜZEY İŞLEMLERİ LABORATUVAR ALTYAPISININ KURULUMU, 2016 - 2017

ARSLAN E., ŞENOCAK T. Ç., Project Supported by Higher Education Institutions, ZİNKATLAMA PROSESİ İLE AKTİVE EDİLEN AA2014 ALAŞIMI ÜZERİNE MAO YÖNTEMİ İLE AL203 BÜYÜTÜLMESİ; YAPISAL VE TRİBOKOROZYON ÖZELLİKLERİNİN KARAKTERİZASYONU, 2015 - 2017

ARSLAN E., YILMAZ T. A., SONGUR F., Project Supported by Higher Education Institutions, TOZ METALURJİSİ LABORATUVAR ALTYAPISININ KURULUMU, 2015 - 2017

ARSLAN E., YILMAZ T. A., Project Supported by Higher Education Institutions, AA2014/AL203 METAL MATRİSLİ KOMPOZİTLERİN PRESLENİBİLİRLİKLERİNİN ARAŞTIRILMASI, 2015 - 2017

ARSLAN E., Project Supported by Higher Education Institutions, YÜKSEK ENERJİLİ ÖĞÜTME TEKNİĞİ KULLANILARAK MEKANİK ALAŞIMLAMA YÖNTEMİ İLE Ti6Al4V ALAŞIMINDAN BİYOMALZEME ÜRETİMİ, 2015 - 2016

Arslan E., Project Supported by Higher Education Institutions, Hassas Döküm Yöntemiyle Magnezyum Alaşımlarının Üretimi Mekanik ve Tribolojik Özelliklerinin Araştırılması, 2013 - 2015

ARSLAN E., ŞENOCAK T. Ç., Project Supported by Higher Education Institutions, HASSAS DÖKÜM YÖNTEMİYLE MAGNEZYUM ALAŞIMLARININ ÜRETİMİ; MEKANİK VE TRİBOLOJİK ÖZELLİKLERİNİN ARAŞTIRILMASI, 2013 - 2014

ARSLAN E., Project Supported by Higher Education Institutions, Ti ALAŞIMLI TABAN MALZEME ÜZERİNE ELEKTRO KAPLAMA YÖNTEMİ İLE BÜYTÜLEN TiO<sub>2</sub> VE HYDROXYAPATİTE KAPLAMALARIN TRİBOLOJİK ÖZELLİKLERİN ARAŞTIRILMASI, 2012 - 2014

Arslan E., Totik Y., Project Supported by Higher Education Institutions, Mikro Ark Oksidasyon Yöntemi ile Kaplanmış Şekil Hafızalı NiTi Alaşımı ve Titanyum Alaşımının Tribokorozyon Davranışlarının İncelenmesi, 2012 - 2013

Arslan E., Efeoğlu İ., Project Supported by Higher Education Institutions, Yüzey Teknolojileri Ar-Ge Laboratuvarında Bulunan XRD'nin Güncellenmesinin Tamamlanması SEM'de Elementel Analiz Yapan ve Arızalı Olan EDS Detektörünün Tamir Edilmesi ve/veya Gelişmiş Bir EDS Sistemi ile Windows Tabanlı Güncelleştirilmesi, 2011 - 2012

Arslan E., Totik Y., Project Supported by Higher Education Institutions, Mikro Ark Oksidasyon Yöntemi ile Kaplanmış Alüminyum Alaşımının Korozyon Davranışlarının Belirlenmesi, 2010 - 2011

Arslan E., Totik Y., TUBITAK Project, Kapalı Alan dengesiz Manyetik Sıçratma (CFUBMS) ve Mikro Ark Oksidayon (MAO) Tekniklerinin Kombine Kullanımı ile Cp-Ti ve Ti6Al4V Alaşımının Dubleks Yüzey Modifikasyonu: Yapısal, Mekanik, Tribolojik, Korozyon ve Tribokorozyon Özelliklerinin Araştırılması, 2009 - 2011

Arslan E., Aydm M. D., AB IPA Project, AB (IPA) -YÖK - MEB İnsan Kaynaklarını Mesleki Eğitim Yoluyla Geliştirilmesi Projesi Komisyon Üyeliği, 2008 - 2010

Arslan E., TUBITAK Project, Plazma Elektrolitik Oksidasyon Yöntemi ile Alüminyum, Magnezyum ve Titanyum Alaşımının Yüzey Modifikasyonu: Aşınma ve Korozyon Özelliklerinin Araştırılması, 2008 - 2010

Arslan E., Efeoğlu İ., Project Supported by Higher Education Institutions, TiBN Nano Yapılı Kompozit Katı İnce Film Bütyülmesi: Yapısal ve Mekanik Özelliklerin araştırılması, 2007 - 2009

Arslan E., Efeoğlu İ., TUBITAK Project, "MoS<sub>2</sub> Metalurjik ince film üretimi ve tribolojikmekanik-yapısal özelliklerin karakterizasyonu, 2007 - 2009

Arslan E., Efeoğlu İ., TUBITAK Project, Me-DLC ve MoS<sub>2</sub>-(Me) Katı Yağlayıcı İnce Film Bütyülmesi:MekanikveTribolojikÖzelliklerininFarklı AtmosferOrtamlarındaAraştırılması, 2006 - 2008

Arslan E., Project Supported by Higher Education Institutions, DLC Seramik Filmlerdeki Artık Gerilmelerin XRD Tekniği ile İncelenmesi, 2004 - 2004

## Scientific Consultations

İstanbul Aydin Üniversitesi Savunma Sanayi Teknolojileri Uygulama ve Araştırma Merkezi, Scientific Consultancy, Ataturk University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, Turkey, 2020 - Continues

## Metrics

Publication: 98

Citation (WoS): 486

Citation (Scopus): 558

H-Index (WoS): 13

H-Index (Scopus): 13

## Representation and Promotion Activities

Institutional Promotion, International Aluminium Technology, Machinery and Products Trade Fair, Turkey, İstanbul,

2013 - 2013