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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, Fırat University, Faculty Of Engineering, Makina Mühendisliği , Turkey 1984 - 1989

Dissertations

Doctorate, Deposition on Different Steel Types of MoS₂-Ti Composite Thin Film: Charecterization of Mechanical-Tribological-Structure Properties, Ataturk University, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, 2003
Postgraduate, Seramik filmlerin ısıt 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

Advancing Frontiers

ARSLAN E., Ti6Al4V ELİ ALAŞIMI ÜZERİNE NANOKOMPOZİT TiO₂: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/Al₂O₃ nanokompozit kaplamaların büyütilmesi; yapısal 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 Plastica, vol.60, no.1, pp.128-136, 2023 (SCI-Expanded)
- II. **Microstructural Characterization and Wear Behavior of Porous Equimolar TiNbZr 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 TiO₂ 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 TiO₂ 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/TiB₂/MoS₂ 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., DEMİRCİ 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**
DEMİRCİ 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 MoS₂-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 TiB₂ 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 MoS₂/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 TiB₂ 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 MoS₂-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 MoS₂-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 MoS₂-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 MoS₂-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 MGZN₂ addition on the sintering density, microstructure and hardness of aluminum alloys prepared by powder metallurgy method**
ÇARDAKLI İ. S., Karadeniz S., Arslan E., Gök D. A.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDİSLİK VE FEN BİLİMLERİ DERGİSİ, vol.41, no.3, pp.538-544, 2023 (ESCI)
- II. **The Effect of CeO₂ Nanoparticles Addition to PEO Coatings on Corrosion Behavior**
Yılmaz 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 CeO₂ Nanopartikül İlavesinin Korozyon Davranışına Etkisi**
Yılmaz 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., KOCADAĞISTAN 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., Kocadağistan 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 TiO₂/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 TiO₂/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.
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- 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.
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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 TiO₂ 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 Diego, 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 Diego, United States Of America, 25 - 29 April 2016
- XV. **The Effect of TiO₂ 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 Diego, United States Of America, 25 - 29 April 2016
- XVI. **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 Diego, 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 Diego, 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 Diego, United States Of America, 20 - 24 April 2015
- XXIII. **Tribocorrosion Properties of Metal Doped-DLC Coatings**
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EFEOĞLU İ., TOTİK Y., EZİRMİK K. V., ARSLAN E., KELEŞ A., Demirci E.
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- XXV. **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
- 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.

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- XXVII. **Effect of Deposition Parameters on the Tribological Properties of Ti DLC Films**
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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 Diego, 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**
Tahmasabian Myandoab M., EFEOĞLU İ., EZİRMİK K. V., ARSLAN E., TOTİK Y., Şüküroğlu E. E., BARAN Ö.
International Conference on Metallurgical Coatings 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.
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- 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.
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- XXXIII. **Influence of Unipolar and Bipolar Voltage Modes on Corrosion Resistance of Cp-Ti Alloy coated by using Micro-arc Oxidation Process**
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- XXXIV. **İnsan vücudunda kullanılan farklı implantlara uygulanan biyomekanik testler ve ülkemizin biyomekanik test ihtiyacına genel bir bakış**
KOVACI H., BAYRAK O. Ü., HACISALİHOĞLU İ., VANGÖLÜ S. Y., ALBAYRAK C., BARAN O., ALSARAN A., ÇELİK A., KAYMAZ İ., EFEOĞLU İ., et al.
IV. Ulusal Tıbbi Cihazlar İmalat Sanayi Kongre ve Sergisi, Samsun, Turkey, 23 - 24 September 2011, pp.39-45
- XXXV. **Phase Transformation of MoS₂-Nb Composite Films at the High Temperatures**
EFEOĞLU İ., Altıntaş S., ARSLAN E., Baran Ö., Uğur D.
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- XXXVI. **The Tribocorrosion Behaviour of Cp-Titanium Deposited by Micro Arc Oxidation at Different Frequencies**
Demirci E., ARSLAN E., TOTİK Y., Baran Ö., EFEOĞLU İ.
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- XXXVIII. **The Tribocorrosion Behaviour of Cp-Titanium Deposited by Micro Arc Oxidation at Different Frequencies**

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- XXXIX. **Optimizaton of Micro arc Oxidation Processes for Corrosion Resistance of Ti6Al4V alloys by using Taguchi Method**

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- 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 Diego, United States Of America, 26 - 30 April 2010, pp.1

- XLl. **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 Diego, 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**

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- XLIV. **Optimizaton of the Coating Parametersfor Micro Arc Oxidation of Cp Ti**

VANGÖLÜ S. Y., ALSARAN A., ARSLAN E., TOTİK Y.

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

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Representation and Promotion Activities

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