

Prof. Hüseyin Çimenoglu

Personal Information

Fax Phone: [+90 212 285 3427](tel:+902122853427)

Email: cimenogluh@itu.edu.tr

Address: İTÜ Maslak Kampüsü Kimya-Metalurji Fakültesi Metalurji ve Malzeme Mühendisliği Bölümü Maslak Sarıyer İstanbul

International Researcher IDs

ORCID: 0000-0002-9921-7108

Publons / Web Of Science ResearcherID: ABA-7628-2020

ScopusID: 7004326348

Yoksis Researcher ID: 4710

Education Information

Doctorate, Istanbul Technical University, Kimya-Metalurji Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, Turkey
1984 - 1989

Postgraduate, Istanbul Technical University, Kimya-Metalurji Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü,
Turkey 1981 - 1984

Undergraduate, Yildiz Technical University, Faculty Of Mechanical Engineering, Makine Mühendisliği Bölümü, Turkey
1977 - 1981

Foreign Languages

English

Dissertations

Doctorate, Çift fazlı çeliklerin deformasyon davranışı, İstanbul Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, 1989

Research Areas

Technical Sciences, Metallurgical and Materials Engineering, Material science and engineering, Mechanical Properties, Biomaterials, Plating, Mechanical Metallurgy, Surface Finishing Processes

Academic Titles / Tasks

Professor, Istanbul Technical University, Kimya-Metalurji, Metalurji Ve Malzeme Mühendisliği, 1997 - Continues

Academic and Administrative Experience

İstanbul Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, 2013 - 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Unveiling the mechanisms of coating formation during micro-arc oxidation of titanium in Na₂HPO₄ electrolyte**
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- IV. **Oxidation of a refractory high entropy alloy (RHEA) at moderate temperatures for wear related applications**
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- V. **Swelling modification by electron beam at chalcopyrite copper indium gallium diselenium thin-film controlled optical features**
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- VI. **Cu layer derived by accelerated microparticles on ZnO:Al/p-Si heterojunction**
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- VII. **In-situ formation of Ag nanoparticles in the MAO coating during the processing of cp-Ti**
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- VIII. **Effect of electron beam improved dielectric function on optical properties of sol-gel derived CuIn_{1-x}Ga_xSe₂ thin-film**
Akyol Voss S., Canci Matur U., Çimenoglu H., Baydoğan N.
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- IX. **Surface degradation of nitrided hot work tool steels under repeated impact-sliding contacts: Effect of compound layer**
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- X. **Thermal oxidation of a porous Ti-23Nb alloy for wear related biomedical applications: Effect of oxidation duration**
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- XI. **Titania coating formation on hydrostatically extruded pure titanium by micro-arc oxidation method**
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- XII. **Low Friction and High Wear Resistance of Plasma Electrolytic Oxidation (PEO)-Coated AZ31 Mg Alloy Sliding against Hydrogenated DLC (a-C-H) at Elevated Temperatures**
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- XV. **A study to enhance the mechanical durability of the MAO coating fabricated on the 7075 Al alloy for wear-related high temperature applications**
Muhaffel F., Baydoğan M., Çimenoglu H.
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- XVI. **Effect of Co Addition on the Creep Rupture Properties of 9Cr-1.8W-xCo Weld Metals**
KABAKCI F., Acarer M., Baydoğan M., Selcuk Kesinkilic A., Acar F. K., Çimenoglu H.
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- XVII. **Room and High Temperature Sliding Wear Characteristics of Laser Surface Melted Stellite 6 and Mo-Alloyed Stellite 6 Hardfacings**
Alhattab A. A. M., Dilawary S. A. A., Motallebzadeh A., Arısoy C. F., Çimenoglu H.
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- XVIII. **Role of counterfaces with DLC and N-based coatings on frictional behaviour of AZ31 magnesium alloy subjected to plasma electrolytic oxidation (PEO) process**
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- XIX. **Thermal oxidation of cold sprayed Ti-5Al-XZn coatings for tribological applications**
Çetiner D., ATAR E., Derin C. B., Çimenoglu H.
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- XX. **Nanotribological characteristics of laser surface melted Stellite 12+Mo hardfacing**
Dilawary S. A. A., Motallebzadeh A., Afzal M., ATAR E., Çimenoglu H.
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- XXI. **Influence of alumina and zirconia incorporations on the structure and wear resistance of titania-based MAO coatings**
Muhaffel F., Kaba M., Cenipura G., Derin B., Kruk A., Atar E., Çimenoglu H.
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- XXII. **Effect of Electron Beam Surface Melting on the Structure and Wear Characteristics of Cobalt-Based Hardfacing and Its Mo-Alloyed Version**
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- XXIII. **Effect of electron beam surface melting on the microstructure and wear behavior of Stellite 12 hardfacing**
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- XXIV. **A novel fabrication method for a TiO₂ layer over CoCr alloy**
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- XXX. **Surface modification of Ti6Al4V by micro-arc oxidation in AgC₂H₃O₂-containing electrolyte**
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- XXXI. **Modification of M2 hardfacing: Effect of molybdenum alloying and laser surface melting on microstructure and wear performance**
Dilawary S. A. A., Motallebzadeh A., Houdkova S., Medlin R., Haviar S., Lukac F., Afzal M., Çimenoglu H.
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- XXXII. **Characteristics of Ti6Al4V Powders Recycled from Turnings via the HDH Technique**
Gokelma M., Celik D., Tazegül O., Çimenoglu H., Friedrich B.
METALS, vol.8, no.5, 2018 (SCI-Expanded)
- XXXIII. **Laser surface melting of 10 wt% Mo alloyed hardfacing Stellite 12 plasma transferred arc deposits: Structural evolution and high temperature wear performance**
Dilawary S. A. A., Motallebzadeh A., Afzal M., ATAR E., Çimenoglu H.
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- XXXIV. **Enhanced wear resistance of Stellite 12 by Mo addition and LSM**
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- XXXV. **Optimisation of micro-arc oxidation electrolyte for fabrication of antibacterial coating on titanium**
Aydogan D. T., Muhaffel F., Kilic M. M., Acar O. K., Cempura G., Baydoğan M., Gül Karagüler N., Kose G. T., Czyrska-Filemonowicz A., Çimenoglu H.
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- XL. **Formation of Corrosion-Resistant Alumina Coating on 6061 Aluminum Alloy by the Combination of Micro Arc Oxidation and Sealing Treatments**
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- XLIV. **The effect of La2O3 on the microstructure and room temperature mechanical properties of t-ZrO2**
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- XLV. **Copper matrix composite coatings produced by cold spraying process for electrical applications**
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- XLVII. **Characterisation of CoB Co2B coatings by the scratch test**
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- XLVIII. **Raman spectroscopy characterization of hypo-eutectic CoCrWC alloy tribolayers**
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- L. **CHARACTERISATION AND TRIBOLOGICAL PROPERTIES OF HARD ANODISED AND MICROARC OXIDISED 5754 QUALITY ALUMINUM ALLOY**
Övündür M., MUHAFFEL F., Çimenoglu H.
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- LI. **Synthesis of zirconia-incorporated titania layer by microarc oxidation for biomedical applications**
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