

Asst. Prof. GÖKHAN KARA

Personal Information

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Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Makina Mühendisliği / Malzeme Anabilimdalı , Turkey 2011 - 2017

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği / Üretim Metalurjisi, Turkey 1999 - 2002

Undergraduate, Istanbul Technical University, Kimya-Metalurji Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, Turkey 1994 - 1998

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Farklı kristal yapılarıdaki titanyum ve alaşımlarının borlanması ve borlamanın bu malzemelerin mikroyapı, mekanik ve biyouyumluluk özellikleri üzerindeki etkilerinin incelenmesi, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Makina Mühendisliği/Malzeme, 2017

Postgraduate, Levha Döküm Metodu ile üretilen AA8006 alaşımlı levhaların termo-mekanik davranışının incelenmesi, Istanbul Technical University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği, 2002

Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Biomaterials, Thermal Treatment, Plating, Material Characterization, Mechanical Metallurgy, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Karadeniz Technical University, Sürmene Deniz Bilimleri Fakültesi, Gemi İnşaatı ve Gemi Makineleri Mühendisliği, 2021 - Continues

Lecturer PhD, Karadeniz Technical University, Abdullah Kanca Meslek Yüksekokulu, Makine ve Metal Teknolojileri, 2013 - 2021

Academic and Administrative Experience

Karadeniz Technical University, Makine Ve Metal Teknolojileri, 2013 - 2014

Courses

Malzeme, Associate Degree, 2013 - 2014
Makine Elemanları, Associate Degree, 2013 - 2014
Mesleki Yabancı Dil, Associate Degree, 2013 - 2014
İşletme Yönetimi, Associate Degree, 2013 - 2014

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Characterization of Boride Layer Formed on Ti-6Al-4V Alloy by Electron Beam Evaporation Technique**
KARA G., PÜRÇEK G.
PHYSICS OF METALS AND METALLOGRAPHY, vol.121, no.14, pp.1466-1472, 2020 (Journal Indexed in SCI)
- II. **Mechanical properties and cell proliferation response of borided biomedical titanium alloys with different crystalline structures**
KARA G., PÜRÇEK G.
SURFACE & COATINGS TECHNOLOGY, vol.397, 2020 (Journal Indexed in SCI)
- III. **Boriding behaviour of titanium alloys with different crystalline structures**
Kara G., Pürçek G.
SURFACE ENGINEERING, vol.35, no.7, pp.611-617, 2019 (Journal Indexed in SCI)
- IV. **Growth kinetics and mechanical characterization of boride layers formed on beta-type Ti-45Nb alloy**
Kara G., Pürçek G.
SURFACE & COATINGS TECHNOLOGY, vol.352, pp.201-212, 2018 (Journal Indexed in SCI)
- V. **Improvement of wear behaviour of titanium by boriding**
Kara G., Pürçek G., Yanar H.
INDUSTRIAL LUBRICATION AND TRIBOLOGY, vol.69, no.1, pp.65-70, 2017 (Journal Indexed in SCI)
- VI. **MICROSTRUCTURE AND TRIBOLOGICAL PROPERTIES OF Ti BORIDED BY ELECTRON BEAM EVAPORATION TECHNIQUE**
KARA G., PÜRÇEK G., ATASOY Y., BACAŞIZ E.
JOURNAL OF THE BALKAN TRIBOLOGICAL ASSOCIATION, vol.21, no.1, pp.24-37, 2015 (Journal Indexed in SCI)

Books & Book Chapters

- I. **The Effect of Casting Parameters on the Metallurgical Quality of Twin Roll Cast Strip**
Kara G., Birol Y., Akkurt S., Romanovski C.
in: Continuous Casting, K. Ehrke, W. Schneider, Editor, Wiley-Vch Verlag Gmbh, Karlsruhe, pp.40-44, 2006

Refereed Congress / Symposium Publications in Proceedings

- I. **STUDY ON MICROSTRUCTURE AND MECHANICAL PROPERTIES OF SURFACE LAYER FORMED ON TITANIUM BY BORONITRIDING**
Kara G.
5. International Conference on Material Science and Technology (IMSTEC 2020), Niğde, Turkey, 16 - 18 October 2020, pp.5-7
- II. **BORIDE LAYER EVOLUTION DEPENDING ON BORIDING AGENTS**
Kara G.
5. International Conference on Material Science and Technology (IMSTEC 2020), Niğde, Turkey, 16 - 18 October 2020, pp.8-10

- III. **Investigation of mechanical properties and biocompatibility of borided titanium alloys with different crystalline structures**
Kara G., Pürçek G.
2. International Turkish World Engineering and Science Congress, Antalya, Turkey, 7 - 10 November 2019, pp.728-732
- IV. **Characterization of microstructure and mechanical properties of Ti-6Al-4V alloy borided by electron beam evaporation technique**
Kara G., Pürçek G.
2. International Turkish World Engineering and Science Congress, Antalya, Turkey, 7 - 10 November 2019, pp.733-737
- V. **MECHANICAL CHARACTERIZATION OF BORIDE LAYERS FORMED ON ALPHA, BETA AND ALPHABETA TITANIUM ALLOYS**
Kara G., Pürçek G.
3. International Conference on Material Science and Technology (IMSTEC 2018), Niğde, Turkey, 17 - 19 September 2018, pp.444-447
- VI. **EVOLUTION OF BORIDE LAYERS ON ALPHA, BETA AND ALPHABETA TITANIUM ALLOYS**
Kara G., Pürçek G.
3. International Conference on Material Science and Technology (IMSTEC 2018), Niğde, Turkey, 17 - 19 September 2018, pp.431-434
- VII. **Effect of Boriding Mixture on Mechanical and Tribological Properties of Borided CP Grade-2 Ti**
KARA G., PÜRÇEK G.
BalkanTRIB'17 9. International Conference on Tribology, Nevşehir, Turkey, 13 - 15 September 2017, pp.1
- VIII. **Microstructure and Wear Behaviour of Borided Ti-6Al-4V Alloy by Solid State Diffusion Process**
KARA G., PÜRÇEK G.
BalkanTRIB17 9. International Conference on Tribology, Nevşehir, Turkey, 13 - 15 September 2017, pp.1
- IX. **Tribological behavior of borided cp titanium (grade-2) under linear reciprocating sliding conditions**
KARA G., PÜRÇEK G.
IBERTRIB 2017 – IX Iberian Conference on Tribology, Guimarães, Portugal, 13 - 15 July 2017, pp.1
- X. **Microstructure and tribological properties of β -Ti alloy borided by electron beam evaporation**
Kara G., Pürçek G.
International Conference on Engineering Tribology and Applied Technology (ICETAT 2016), Taipei, Taiwan, 4 - 06 November 2016, pp.1
- XI. **Improvement of wear behaviour of titanium by boriding**
KARA G., PÜRÇEK G., YANAR H.
TURKEYTRIB 2015 1st International Conference on Tribology, İstanbul, Turkey, 7 - 09 October 2015, pp.1
- XII. **Improvement Of Wear Resistance Of Pure Titanium (Grade-2) By Boriding Using Electro-Beam Evaporation Technique At Room Temperature**
KARA G., PÜRÇEK G., BACAŞIZ E., ATASOY Y.
BALKANTRIB'14, 8th International Conference on Tribology, Sinaia, Romania, 30 October - 01 November 2014, pp.1
- XIII. **The effect of homogenization practice on the microstructure of AA6063 alloys**
Birol Y., Kara G., Ucuncuoglu S., Usta M.
3rd Symposium on Hot Deformation of Aluminum Alloys, California, United States Of America, 2 - 06 March 2003, pp.463-472
- XIV. **Fe/Si oranının şerit döküm AA8011 alaşımının mikroyapısına etkisi**
BIROL Y., KARA G.
Metalurji ve Malzeme Kongresi, İstanbul, Turkey, 15 - 17 June 2002, pp.100-1004
- XV. **Şerit döküm AlFeSi alaşımlarından ısı dönüştürücü levha üretimi**
BIROL Y., KARA G.
Metalurji ve Malzeme Kongresi, İstanbul, Turkey, 15 - 17 June 2002, pp.105-107
- XVI. **Twin-roll cast 5000 series aluminum sheet for automotive applications**

BIROL Y., ZEYBEKOGLU H., Kara G., DUNDAR M., CAKIR O., AKKURT A., YILDIZBAYRAK G., ROMANOWSKI C.
Symposium on Automotive Aluminum 2001/Aluminum Joining Including Friction Stir Welding held at the 2001
TMS Annual Meeting, Louisiana, United States Of America, 12 - 14 February 2001, pp.107-113

XVII. The response of twin roll cast aluminum strips to thermo-mechanical processing

BIROL Y., ZEYBEKOGLU H., OKUMUS E., Kara G., AKKURT A., ROMANOWSKI C.
130th TMS Annual Meeting, Louisiana, United States Of America, 11 - 15 February 2000, pp.1107-1113

Patent

Kara G., Katıl hal bornitrürleme işlemi, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Recourse Number:
2020/20764 , Standard Registration, 2020

Kara G., Pürçek G., TİTANYUM VE ALAŞIMLARININ KATI HAL BORLANMASI İÇİN BORLAMA KARIŞIMI, Patent, CHAPTER
C Chemistry; Metallurgy, The Invention Registration Number: 102018000006809 , Standard Registration, 2020

Kara G., Titanyum yüzeylerin kutu borlanması için bir toz karışımı, Patent, CHAPTER C Chemistry; Metallurgy, The
Invention Recourse Number: 2020/20615 , Standard Registration, 2020

Citations

Total Citations (WOS):34

h-index (WOS):4