

Asst. Prof. GÖKHAN KARA

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAW-4714-2020

ScopusID: 57203281108

Yoksis Researcher ID: 26824

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 biyoyumluluk 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 -

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 (SCI-Expanded)
- 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 (SCI-Expanded)
- III. **Boriding behaviour of titanium alloys with different crystalline structures**
Kara G., Pürçek G.
SURFACE ENGINEERING, vol.35, no.7, pp.611-617, 2019 (SCI-Expanded)
- 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 (SCI-Expanded)
- 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 (SCI-Expanded)
- VI. **MICROSTRUCTURE AND TRIBOLOGICAL PROPERTIES OF Ti BORIDED BY ELECTRON BEAM EVAPORATION TECHNIQUE**
KARA G., PÜRÇEK G., ATASOY Y., BACAĞIZ E.
JOURNAL OF THE BALKAN TRIBOLOGICAL ASSOCIATION, vol.21, no.1, pp.24-37, 2015 (SCI-Expanded)

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., BACAĞSIZ 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., ÇAKIR 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., 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., Katıl hal bornitrürleme işlemi, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Recourse Number: 2020/20764 , 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

Metrics

Publication: 24
Citation (WoS): 41
Citation (Scopus): 29
H-Index (WoS): 4
H-Index (Scopus): 4

Non Academic Experience

HEKİMOĞLU DÖKÜM San.Tic.A.Ş.
TOFAŞ Türk Otomobil Fabrikası A.Ş.
KANCA El Aletleri Dövme Çelik A.Ş.
Ümit Döküm San ve Tic. Şti
TÜBİTAK-Marmara Araştırma Merkezi
Assan Alüminyum San ve Tic. A.Ş