

Lect. PhD HALİL KARAKOÇ

Personal Information

Office Phone: [+90 312 267 3020](tel:+903122673020) Extension: 118

Office Phone: [+90 312 267 2030](tel:+903122672030) Extension: 118

Fax Phone: [+90 312 267 3338](tel:+903122673338)

Email: halil.karakoc@hacettepe.edu.tr

Web: <http://www.hacettepeaso.hacettepe.edu.tr/halil.karakoc.html>

Address: Adres: H.Ü. Hacettepe Ankara Sanayi Odası 1. OSB Meslek Yüksekokulu, Ankara Sanayi Odası, 1. Organize Sanayi Bölgesi, ASORA Ticaret Merkezi, Ayaş yolu 25. km., 06935 Sincan/Ankara Telefon: +90 312 267 30 20 +90 312 267 20 30 Fak +90 312 267 33 38

Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği, Turkey 2012 - 2017

Undergraduate, Gazi University, Teknik Eğitim Fakültesi, Metal Eğitimi, Turkey 2004 - 2009

Foreign Languages

English, B1 Intermediate

Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Mechanical Properties, Composites, Material Characterization, Engineering and Technology

Academic Titles / Tasks

Lecturer, Hacettepe University, Hacettepe Ankara Sanayi Odası 1. Osb Meslek Yüksekokulu, 2013 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Study on the wear characteristics of INCO939 alloy manufactured by laser powder bed fusion and casting.**
KARABULUT Ş., KARAKOÇ H., BİLGİN M., Subaşı L., Dursun G., Ozaner O. C.
Tribology International, vol.194, 2024 (SCI-Expanded)
- II. **Comparative study of hardfacing applications on structural steel surfaces to improve ballistic properties**
Sözeri M., ÖZDEMİR U., FINDIK T., KARAKOÇ H.
Materials Today Communications, vol.38, 2024 (SCI-Expanded)
- III. **Effect of process parameters of Al5083/SiC surface composites fabricated by FSP on microstructure, mechanical properties and wear behaviors**
Kaya N., ÇETINKAYA C., KARAKOÇ H., ADA H.

- Materials Chemistry and Physics, vol.315, 2024 (SCI-Expanded)
- IV. Influence of gradation in the reinforcement particles on the interfacial microstructure and mechanical properties of functionally graded composites
KARAKOÇ H., ÇİNİCİ H., Saravana Kumar M., YILMAZ T., Ovalı İ., Yang C., Arjunan A.
Materials Today Communications, vol.38, 2024 (SCI-Expanded)
- V. Study on the friction drilling behaviors and tribological properties of aluminum matrix composites
KARAKOÇ H., BİLGİN M., KARABULUT Ş.
Materials Today Communications, vol.38, 2024 (SCI-Expanded)
- VI. Electrochemical, mechanical, and antibacterial properties of the AZ91 Mg alloy by hybrid and layered hydroxyapatite and tantalum oxide sol-gel coating
ALBAYRAK S., Gül C., Emin N., GÖKMEN U., KARAKOÇ H., Uzun A., ÇİNİCİ H.
Materialprüfung/Materials Testing, vol.65, no.11, pp.1628-1644, 2023 (SCI-Expanded)
- VII. Effect of SiC Particle Size on the Mechanical and Wear Behavior of Al356 Metal Matrix Composites
KARAKOÇ H.
Silicon, vol.15, no.15, pp.6729-6744, 2023 (SCI-Expanded)
- VIII. Mechanical Properties of Al2024/Al2O3/MgO/Graphite composites via hydro-thermal hot pressing route
Ovalı İ., Esen C., ALBAYRAK S., KARAKOÇ H., Saravana Kumar M., Yang C.
Materials Chemistry and Physics, vol.302, 2023 (SCI-Expanded)
- IX. Microstructural properties and impact behavior of AA5083/Al2O3 functionally graded composite material with surface foam layer produced through powder metallurgy
Ardıçoğlu H., KARAKOÇ H., Çinici H.
Materials Today Communications, vol.35, 2023 (SCI-Expanded)
- X. Investigation of microstructure, mechanical, and tribological properties of SiC/h-BN/Gr hybrid reinforced Al6061 matrix composites produced by hot extrusion method
Çinici H., KARAKOÇ H., ŞAHİN Ö., Ovalı İ.
Diamond and Related Materials, vol.136, 2023 (SCI-Expanded)
- XI. A comparative study on mechanical and ballistic performance of functionally graded Al6061 composites reinforced with B4C, SiC, and Al2O3
KARABULUT Ş., KARAKOÇ H., BİLGİN M., Canpolat H., Krolczyk G. M., Sarıkaya M.
Journal of Materials Research and Technology, vol.23, pp.5050-5065, 2023 (SCI-Expanded)
- XII. Performance analysis on mechanical and machinability attributes of Al6061-B4C-T6 composites processed via hot extrusion
Tinga S., KARAKOÇ H., YAĞMUR S., Saravana Kumar M., ŞEKER U., ÇITAK R.
Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2023 (SCI-Expanded)
- XIII. A study on the influence of thermally assisted novel hybrid methods on the drilling behavior of Ti6Al4V alloy
KARABULUT Ş., BİLGİN M., KARAKOÇ H., Khanna N., Sarıkaya M.
TRIBOLOGY INTERNATIONAL, vol.175, 2022 (SCI-Expanded)
- XIV. Study of the Heat-Assisted Milling of Ti-6Al-4V Under Dry and Minimum-Quantity-Lubrication
KARABULUT Ş., BİLGİN M., KARAKOÇ H., Skondras Giousios D., Markopoulos A. P.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.47, no.7, pp.9287-9304, 2022 (SCI-Expanded)
- XV. Wear and mechanical properties of Al6061/SiC/B4C hybrid composites produced with powder metallurgy
KARAKOÇ H., OVALI İ., Dundar S., ÇITAK R.
JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, vol.8, no.6, pp.5348-5361, 2019 (SCI-Expanded)
- XVI. Study on mechanical and ballistic performances of boron carbide reinforced Al 6061 aluminum alloy produced by powder metallurgy
KARAKOÇ H., KARABULUT Ş., Citak R.
COMPOSITES PART B-ENGINEERING, vol.148, pp.68-80, 2018 (SCI-Expanded)

- XVII. **Investigation of surface roughness in the milling of Al7075 and open-cell SiC foam composite and optimization of machining parameters**
 KARABULUT Ş., KARAKOÇ H.
 NEURAL COMPUTING & APPLICATIONS, vol.28, no.2, pp.313-327, 2017 (SCI-Expanded)
- XVIII. **Investigation of mechanical properties of tubular aluminum foams**
 UZUN A., KARAKOÇ H., GÖKMEN U., Cinici H., TÜRKER M.
 INTERNATIONAL JOURNAL OF MATERIALS RESEARCH, vol.107, no.11, pp.996-1004, 2016 (SCI-Expanded)
- XIX. **Influence of B4C particle reinforcement on mechanical and machining properties of Al6061/B4C composites**
 KARABULUT Ş., KARAKOÇ H., Citak R.
 COMPOSITES PART B-ENGINEERING, vol.101, pp.87-98, 2016 (SCI-Expanded)
- XX. **Experimental Investigation and Optimization of Cutting Force and Tool Wear in Milling Al7075 and Open-Cell SiC Foam Composite**
 KARABULUT Ş., Cinici H., KARAKOÇ H.
 ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.41, no.5, pp.1797-1812, 2016 (SCI-Expanded)
- XXI. **Mechanical and ballistic properties of powder metal 7039 aluminium alloy joined by friction stir welding**
 Erdem M., Cinici H., GÖKMEN U., KARAKOÇ H., TÜRKER M.
 TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA, vol.26, no.1, pp.74-84, 2016 (SCI-Expanded)
- XXII. **Laser surface treatment of aluminum based composite mixed with B4C particles**
 YILBAS B. S., KARATAS C., KARAKOÇ H., ALEEM B. J. A., KHAN S., AL-AQEELI N.
 OPTICS AND LASER TECHNOLOGY, vol.66, pp.129-137, 2015 (SCI-Expanded)
- XXIII. **INVESTIGATION OF THE PENETRATION BEHAVIOR OF AlSi7 FOAM, PRODUCED BY POWDER METALLURGY METHOD, UNDER LOW-VELOCITY IMPACT ENERGIES**
 Cinici H., Gokmen U., UZUN A., KARAKOÇ H., Gode C., Turker M.
 JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.29, no.2, pp.395-400, 2014 (SCI-Expanded)

Articles Published in Other Journals

- I. **Production of Powder Metal Al7075/B4C/Si3N4 Composite Materials and Investigation of Wear Properties**
 KARAKOÇ H.
 JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.23, no.4, pp.1141-1151, 2020 (ESCI)
- II. **B4C/SiC/Al203 Particle Reinforced Aluminum Sandwich Foam and Ramor 500 Armor Steel to be Combined and Investigation of the Ballistic Performance**
 KARAKOÇ H., ULUTAŞ A., Cinici H.
 JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.23, no.2, pp.297-310, 2020 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Fabrication of AA6061/B4C Composites and Investigation of Ballistic Performances**
 KARAKOÇ H., Cinici H., KARABULUT Ş., Citak R.
 8th International Conference on Mechanical and Aerospace Engineering (ICMAE), Prague, Czech Republic, 22 - 25 July 2017, pp.822-825
- II. **Effect of the B4C Reinforcement Ratio on Surface Roughness of Al6061 Based Metal Matrix Composite in Wire-EDM Machining**
 KARABULUT Ş., KARAKOÇ H., Citak R.
 8th International Conference on Mechanical and Aerospace Engineering (ICMAE), Prague, Czech Republic, 22 - 25

Supported Projects

Karabulut Ş., Okyayuz A. Ş., Erkazancı Durmuş H., Oral A. Z., Bilgin M., Altuntaş O., Karakoç H., Kökçan R., Erasmus Project, Giving A Voice to Deaf People in Metal Sector, 2019 - 2022

KARAKOÇ H., KARABULUT Ş., ÇITAK R., Project Supported by Higher Education Institutions, Vakum İnfüzyon Yöntemi ile Kevlar/Karbon Fiber Kompozit Malzemelerin Üretimi, 2017 - 2019

KARAKOÇ H., ÇİNİCİ H., ALBAYRAK S., ÇITAK R., Project Supported by Higher Education Institutions, Al Köpük Dolgulu İnce Duvarlı Al6061B4C Profil Üretimi, 2017 - 2018

KARAKOÇ H., ÇİNİCİ H., ÇITAK R., Project Supported by Higher Education Institutions, A6061B4C Kompozitlerin Üretimi ve Balistik Performansının İncelenmesi Üzerine Deneysel Bir Çalışma, 2017 - 2017

KARABULUT Ş., KARAKOÇ H., ÇITAK R., Project Supported by Higher Education Institutions, Al6061B4C Metal Matrisli Kompozitin Tel Erozyon Tezgında işlenmesinin yüzey pürüzlülüğü üzerine deneysel çalışma, 2017 - 2017

KARABULUT Ş., KALKAN Ö. K., KARAKOÇ H., COŞGUNER T., Project Supported by Higher Education Institutions, Meslek Yüksekokulu Öğrencilerinin Akademik Başarılarının Bazı Değişkenler Açısından İncelenmesi: Hacettepe ASO 1 OSB, Denizli Teknik Bilimler MYO Örneği, 2017 - 2017

TUBITAK Project, Fonksiyonel Derecelendirilmiş Al7xxx/B4C Köpük Metallerin Üretimi, Darbe Enerjileri Altında Penetrasyon Davranışı, Balistik Ve Radyasyon Zırhlama Performansının Belirlenmesi, 2015 - 2017

KARABULUT Ş., TAŞCI U., GÖKMEN U., KARAKOÇ H., KIRMIZI G., Project Supported by Higher Education Institutions, Alumix 231 Esash SiC ve Al203 Takviyeli HibritKompozit Üretimi ve Karakterizasyonu, 2016 - 2016

KARABULUT Ş., UZEL M., HASTÜRK E. Y., KALKAN Ö. K., KARAKOÇ H., KÖKÇAN R., KARATAŞ C., KADEMLİ M., AY İ., BİLGİN M., Project Supported by Higher Education Institutions, Yenilikçi Tasarım Uygulamaları, 2015 - 2016

KARAKOÇ H., Project Supported by Higher Education Institutions, B4C Takviyelendirilmiş Aluminyum Esash Kompozit Malzeme Yüzeyinin Lazer ile İşlenmesi, 2015 - 2016

KARAKOÇ H., ÇİNİCİ H., ÇITAK R., Project Supported by Higher Education Institutions, ALUMİX 13 ESASLI METALİK KÖPÜKLERİN TOZ METALURJİSİ YÖNTEMİ İLE ÜRETİMİ, 2015 - 2015

KARABULUT Ş., KALKAN Ö. K., KARAKOÇ H., ÇITAK R., Project Supported by Higher Education Institutions, AA6061B4Cnin tel erozyon tezgında işlenmesinde yüzey pürüzlüğünün yüzey yanıt metodu ile optimizasyonun yapılması, 2015 - 2015

TUBITAK Project, PATLAMA ETKİSİNE KARŞI KORUYUCU ZIRH GELİŞTİRİLMESİ, 2010 - 2011

Metrics

Publication: 27

Citation (WoS): 197

Citation (Scopus): 281

H-Index (WoS): 6

H-Index (Scopus): 8

Non Academic Experience

Hacettepe Üniversitesi Hacettepe ASO 1.0SB Meslek Yüksekokulu

Gazi Üniversitesi OstİM Meslek Yüksekokulu

Gazi Üniversitesi Endüstriyel Ürün Tasarım Öğretmenliği Bölümü

Gazi Üniversitesi Metal Eğitimi Bölümü