

Assoc. Prof. AFŞIN ALPER CERİT



Personal Information

Office Phone: [+90 352 207 6666](tel:+903522076666) Extension: 32094

Email: acerit@erciyes.edu.tr

Web: <http://www.alpercerit.com.tr>

Address: Erciyes Üniversitesi Mühendislik Fakültesi Endüstriyel Tasarım Mühendisliği Bölümü 38039 Melikgazi - Kayseri



International Researcher IDs

ORCID: 0000-0002-3343-7976

Publons / Web Of Science ResearcherID: F-7436-2013

Yoksis Researcher ID: 18170

Education Information

Post Doctorate, Texas A&M University, College Of Engineering, Mechanical Engineering, United States Of America 2011 - 2012

Doctorate, Erciyes University, Fen Bilimleri Enstitüsü, Makine Mühendisliği, Turkey 2004 - 2010

Postgraduate, Erciyes University, Fen Bilimleri Enstitüsü, Makine Mühendisliği, Turkey 2001 - 2004

Undergraduate, Erciyes University, Mühendislik Fakültesi, Makine Mühendisliği, Turkey 1997 - 2001

Associate Degree, Erciyes University, Bilgisayar Teknolojileri, Bilgisayar Programcılığı, Turkey 1994 - 1996

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Metal Matrisli Kompozitlerin Kam Malzemesi Olarak Kullanılabilirliğinin Araştırılması, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği, 2010

Postgraduate, Partikül ve Fiber Takviyeli Alüminyum Matrisli Kompozitin Balistik Performansının İncelenmesi, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği, 2004

Research Areas

Technical Sciences, Mechanical Engineering, Construction and Manufacturing, Tribology, Metallurgical and Materials Engineering, Material science and engineering, Mechanical Properties, Composites, Production Metallurgy, Powder Metallurgy

Academic Titles / Tasks

Associate Professor, Erciyes University, Mühendislik Fakültesi, Endüstriyel Tasarım Mühendisliği, 2017 - Continues
Assistant Professor, Erciyes University, Mühendislik Fakültesi, Endüstriyel Tasarım Mühendisliği, 2013 - 2018
Assistant Professor, Aksaray University, Mühendislik Fakültesi, Makine Mühendisliği, 2011 - 2013
Research Assistant, Aksaray University, Mühendislik Fakültesi, Makine Mühendisliği, 2010 - 2011
Research Assistant, Erciyes University, Mühendislik Fakültesi, Makine Mühendisliği, 2005 - 2010
Research Assistant, Niğde Üniversitesi, Aksaray Mühendislik Fakültesi, Makine Mühendisliği, 2004 - 2005

Academic and Administrative Experience

assistant Secretary General, Erciyes University, Rektörlük, Rektörlük, 2023 - Continues
Vice Dean, Erciyes University, Mühendislik Fakültesi, ---, 2023 - 2023
Deputy Head of Department, Erciyes University, Mühendislik Fakültesi, Endüstriyel Tasarım Mühendisliği, 2013 - 2023
Fakülte Yönetim Kurulu Üyesi, Erciyes University, Mühendislik Fakültesi, Endüstriyel Tasarım Mühendisliği, 2019 - 2021
Aksaray Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, 2012 - 2013

Courses

İleri Kompozit Malzemeler, Doctorate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
Mühendislikte Malzeme Seçimi, Undergraduate, 2021 - 2022, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017
İleri Teknolojik Malzemeler, Postgraduate, 2022 - 2023, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
Toz Metalurjisi, Postgraduate, 2021 - 2022
Malzeme Bilgisi, Undergraduate, 2021 - 2022, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016
Tasarımda Yeni Malzemeler, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018
Endüstriyel Tasarım ve Uygulama Projesi - II, Undergraduate, 2019 - 2020
Girişimcilik-I, Undergraduate, 2019 - 2020, 2018 - 2019
Genel Tasarım İlkeleri, Postgraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2013 - 2014

Advising Theses

Cerit A. A., Kişiyeye özel kafatası implant tasarımı ve prototip üretimi, Postgraduate, M.KARAGÖZ(Student), 2019
Cerit A. A., Pişirici Mutfak Ürünleri Tasarımına Küresel ve Yerel Kültürün Etkilerinin Araştırılması: Fırın ve Ocak Tasarımı Uygulamaları, Postgraduate, F.Zerdeli(Student), 2018
Cerit A. A., MÜHENDİSLİK TASARIM YÖNTEMLERİNİN İNCELENMESİ VE NC KONTROLLÜ TAŞLAMA TEZGAHI TASARIMINDA UYGULANMASI, Postgraduate, O.Çavuş(Student), 2018

Jury Memberships

Post Graduate, Post Graduate, Karadeniz Teknik Üniversitesi, September, 2022
Post Graduate, Post Graduate, Karadeniz Teknik Üniversitesi, July, 2022
Post Graduate, Tez Savunma Jürisi, Cumhuriyet Üniversitesi, January, 2018
Competition, 3. Metalik Fikirler Ar-Ge Proje Pazarı, Türkiye İhracatçılar Meclisi, October, 2014
Competition, III. Ar-Ge Proje Pazarı, Kahramanmaraş Sütçü İmam Üniversitesi, June, 2014
Post Graduate, Yüksek Lisans, Aksaray Üniversitesi, December, 2013

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Comparison of the surface morphologies of ceramic reinforced metal matrix composite cams after wear tests under dry and wet conditions**
Cerit A. A., Nair F., Zafar H. M., Karamiř M.
Journal of Composite Materials, vol.57, no.9, pp.1541-1556, 2023 (SCI-Expanded)
- II. **Microstructural and mechanical characterization of functionally graded Fe/Fe₂B (Fe/B₄C) materials fabricated by in-situ powder metallurgy method**
Hamamcı M., Nair F., Cerit A. A.
CERAMICS INTERNATIONAL, vol.49, no.11, pp.18786-18799, 2023 (SCI-Expanded)
- III. **Analyzing the Influence of Simultaneously Austenitization and Multi-Directional Boriding on the Surface and Subsurface of H13 Tool Steel**
NAİR F., Zafar H. M. N., CERİT A. A., Karamiř M. B.
Journal of Materials Engineering and Performance, vol.31, no.12, pp.9791-9801, 2022 (SCI-Expanded)
- IV. **Effect of sintering parameters on the microstructure and micromechanical properties of in-situ synthesized boride phases (Fe₂B-FeB) in iron matrix composites reinforced with B₄C particles**
Hamamci M., CERİT A. A., NAİR F.
MATERIALS CHARACTERIZATION, vol.191, 2022 (SCI-Expanded)
- V. **Interfacial study of NiTi-Ti₃SiC₂ solid state diffusion bonded joints**
KOTHALKAR A., CERİT A. A., Proust G., BASU S., RADOVIC M., KARAMAN I.
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, vol.622, pp.168-177, 2015 (SCI-Expanded)
- VI. **WEAR BEHAVIOUR OF ALUMINUM MATRIX SIC PARTICLE REINFORCED COMPOSITE CAM PROFILE UNDER DRY SLIDING CONDITION**
CERİT A. A., NAİR F., KARAMIř M. B.
JOURNAL OF THE BALKAN TRIBOLOGICAL ASSOCIATION, vol.21, no.1, pp.186-194, 2015 (SCI-Expanded)
- VII. **EFFECTS OF DUAL PARTICLE SIZES ON WEAR PROPERTIES OF PARTICLE REINFORCED METAL MATRIX COMPOSITES**
Cerit A. A.
JOURNAL OF THE BALKAN TRIBOLOGICAL ASSOCIATION, vol.21, no.2, pp.257-268, 2015 (SCI-Expanded)
- VIII. **WEAR PROPERTIES OF CERAMIC PARTICLE REINFORCED METAL MATRIX COMPOSITES**
NAİR F., CERİT A. A., KARAMIř M. B.
JOURNAL OF THE BALKAN TRIBOLOGICAL ASSOCIATION, vol.21, no.2, pp.356-361, 2015 (SCI-Expanded)
- IX. **Investigation of the low-speed impact behavior of dual particle size metal matrix composites**
Cerit A. A.
MATERIALS & DESIGN, vol.57, pp.330-335, 2014 (SCI-Expanded)
- X. **The effects of different ceramics size and volume fraction on wear behavior of Al matrix composites (for automobile cam material)**
KARAMIř M. B., Cerit A. A., Selcuk B., NAİR F.
WEAR, vol.289, pp.73-81, 2012 (SCI-Expanded)
- XI. **The metallurgical and deformation behaviours of laminar metal matrix composites after ballistic impact**
KARAMIř M. B., NAİR F., CERİT A. A.
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.209, no.10, pp.4880-4889, 2009 (SCI-Expanded)
- XII. **FAILURE AND DAMAGE ANALYSES OF Al-7075 MATRIX COMPOSITE REINFORCED WITH SiCp AFTER BALLISTIC IMPACT**
KARAMIř M. B., CERİT A. A., NAİR F.
OXIDATION COMMUNICATIONS, vol.32, no.1, pp.130-140, 2009 (SCI-Expanded)
- XIII. **Mutual Action Between MMCS Structure and Projectile After Ballistic Impact**
KARAMIř M. B., CERİT A. A., NAİR F.
JOURNAL OF COMPOSITE MATERIALS, vol.42, no.23, pp.2483-2498, 2008 (SCI-Expanded)
- XIV. **EFFECT OF REINFORCEMENT PARTICLE SIZE AND VOLUME FRACTION ON WEAR BEHAVIOUR OF METAL MATRIX COMPOSITES**

CERİT A. A., Karamis M. B., NAİR F., YILDIZLI K.

JOURNAL OF THE BALKAN TRIBOLOGICAL ASSOCIATION, vol.14, no.4, pp.482-489, 2008 (SCI-Expanded)

XV. Surface characteristics of projectiles after frictional interaction with metal matrix composites under ballistic condition

Karamis M. B., Cerit A. A., Nair F.

WEAR, vol.261, no.7-8, pp.738-745, 2006 (SCI-Expanded)

XVI. Thermal and geometrically non-linear stress analyses of an adhesively bonded composite tee joint

Apalak M. K., Gunes R., Turaman M. Ö., Cerit A. A.

COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING, vol.34, no.2, pp.135-150, 2003 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Piştirici Ürün Tasarımına Küresel ve Yerel Kültürlerin Etkileri**
CERİT A. A., ZERDELİ F.
3. International Symposium on Industrial Design Engineering, 22 - 24 November 2018
- II. **NC Kontrollü Taşlama Tezgahı Kavramsal Tasarımı**
ÇAVUŞ O., CERİT A. A.
3. International Symposium on Industrial Design Engineering, 22 - 24 November 2018
- III. **Mühendislik Tasarım Kriterlerinin İncelenmesi ve Uygulanması**
CERİT A. A., ÇAVUŞ O.
3. International Symposium on Industrial Design Engineering, 22 - 24 November 2018
- IV. **INVESTIGATION OF MICROSTRUCTURE AND MICROMECHANICAL PROPERTIES OF FUNCTIONALLY GRADED Fe/B4C MATERIALS AFTER DIFFERENT THERMAL CYCLES**
HAMAMCI M., NAİR F., CERİT A. A., GÜNEŞ R.
IV. INTERNATIONAL EGE COMPOSITE MATERIALS SYMPOSIUM, İzmir, Turkey, 6 - 08 September 2018, vol.1, no.1, pp.430-443
- V. **Demir Matrisli Bor Takviyeli Kompozitlerin (Fe/B) Düşük Hızlı Darbe Davranışlarının İncelenmesi**
HAMAMCI M., NAİR F., CERİT A. A., GÜNEŞ R.
2nd International Conference on Material Science and Technology in Cappadocia (IMSTEC'17), Nevşehir, Turkey, 11 - 13 October 2017, vol.1, no.1, pp.134-141
- VI. **Friction and Wear Characteristics of Fe/B4C-Fe/B Composites Produced by In-Situ Method**
HAMAMCI M., NAİR F., CERİT A. A.
9. International Conference on Tribology (BalkanTRib'17), Nevşehir, Turkey, 13 - 15 September 2017, vol.1, no.1, pp.550-561
- VII. **Microstructural Properties and Impact Behaviours of B4C Particle Reinforced Iron Matrix Composites**
HAMAMCI M., CERİT A. A., NAİR F., GÜNEŞ R.
9. International Conference on Tribology (BalkanTRib'17), Nevşehir, Turkey, 13 - 15 September 2017, vol.1, no.1, pp.562-575
- VIII. **Fe/B4C-B Kompozitlerin Üretiminde Sinterleme Süresinin Metalografik ve Mekanik Özellikler Üzerine Etkisinin Araştırılması**
HAMAMCI M., CERİT A. A., NAİR F.
16. International Materials Symposium, Denizli, Turkey, 12 - 14 October 2016, vol.1, no.1, pp.234-243
- IX. **Experimental Investigation of Microstructural and Micromechanical Properties of Fe/B4C-Fe/B Functionally Graded Materials**
HAMAMCI M., NAİR F., CERİT A. A.
14. International Symposium on Functionally Graded Materials, Bayreuth, Germany, 18 - 21 September 2016, vol.1, no.1, pp.182-185
- X. **KİŞİYE ÖZEL İMPLANT TASARIMLARININ 3 BOYUTLU YAZICILARLA ÜRETİLMESİ**
KARAGÖZ M., CERİT A. A.

3B BASKI TEKNOLOJİLERİ ULUSLARARASI SEMPOZYUMU (INTERNATIONAL SYMPOSIUM ON 3D PRINTING TECHNOLOGIES), İstanbul, Turkey, 5 - 07 May 2016, pp.311-317

- XI. **Farklı Sinterleme Sıcaklıklarında Üretilmiş Fe/B4C-B Kompozitlerin Metalografik ve Mekanik Özelliklerinin İncelenmesi**
HAMAMCI M., NAİR F., CERİT A. A.
International Conference on Material Science and Technology, Nevşehir, Turkey, 6 - 08 April 2016, vol.1, no.1, pp.158-163
- XII. **INVESTIGATION OF THE METALLOGRAPHIC AND MECHANICAL PROPERTIES OF Fe/B4C-B COMPOSITES PRODUCED AT DIFFERENT SINTERING TEMPERATURES**
HAMAMCI M., NAİR F., CERİT A. A.
International Conference on Material Science and Technology in Cappadocia (IMSTEC'16), Nevşehir, Turkey, 6 - 08 April 2016, pp.158-163
- XIII. **WEAR BEHAVIOUR OF THE CERAMIC PARTICLE REINFORCED METAL MATRIX COMPOSITE CAMS**
CERİT A. A., KARAMIŞ M. B., NAİR F., Selçuk B.
1st International Conference on Tribology, İstanbul, Turkey, 7 - 09 October 2015, pp.1-10
- XIV. **Wear Behaviour of the Ceramic Particle Reinforced Metal Matrix Composite Cams**
CERİT A. A., KARAMIŞ M. B., NAİR F., SELÇUK B.
1st International Conference on Tribology, 07 October 2014 - 09 October 2015
- XV. **WEAR BEHAVIOUR OF THE METAL MATRIX CERAMIC PARTICLE REINFORCED COMPOSITE CAMS**
CERİT A. A., KARAMIŞ M. B., NAİR F., SELÇUK B.
1 St International Conference On Tribology - Turkeytrib '15, İstanbul, Turkey, 7 - 09 October 2015, vol.1, no.1, pp.1
- XVI. **AA 2124 Matrisli SiCp Takviyeli Kompozit Kamların Mevcut Kamlarla (GGG40) Aşınma Performansi Açısından Karşılaştırılması**
CERİT A. A., KARAMIŞ M. B., NAİR F., Selçuk B.
II. Ulusal Ege Kompozit Malzemeler Sempozyumu, İzmir, Turkey, 7 - 09 November 2013, pp.1
- XVII. **AA2124 Matrisli Sicp Takviyeli Kompozit Kamların Mevcut Kamlarla Ggg40 Aşınma Performansi Açısından Karşılaştırılması**
CERİT A. A., KARAMIŞ M. B., NAİR F., SELÇUK B.
II. Ulusal Ege Kompozit Malzemeler Sempozyumu, Aydın, Turkey, 7 - 09 November 2013, vol.1, pp.1
- XVIII. **Interpenetrating Shape Memory Alloy (SMA)- MAX Phase Composites and Interface**
Kothalkar A., Hu L., CERİT A. A., Özsoy Ö., Radovic M., Karaman İ., Reddy J. N.
International Institute for Multifunctional Materials for Energy Conversion, United States Of America, 1 - 04 August 2012, pp.1
- XIX. **Interpenetrating Ceramic - Functional Metal Alloy Composites and Interfaces**
Kothalkar A., Hu L., CERİT A. A., Radovic M., Karaman İ.
The International Institute for Multifunctional Materials for Energy Conversion (IIMEC), United States Of America, 1 - 04 January 2012, pp.1
- XX. **Ballistic characterization of laminated metal matrix composites**
CERİT A. A., NAİR F., KARAMIŞ M. B., Yıldızlı k.
11th International Materials Symposium, Turkey, 1 - 04 April 2006, pp.536-541
- XXI. **Erosive behavior of SiCp reinforced aluminum matrix composites**
Yıldızlı K., NAİR F., KARAMIŞ M. B., CERİT A. A.
6th International Fracture Conference, Turkey, 1 - 04 September 2003, pp.517-524

Supported Projects

SİNANOĞLU C., ÖZMEN Ö., AKGÜL E., CERİT A. A., Project Supported by Higher Education Institutions, 3D optik tarayıcı (CMM) doğruluğunun tarama parametreleri optimizasyonu ve fotogrametri desteği ile artırılması, 2017 - 2023
CERİT A. A., ZERDELİ F., Project Supported by Higher Education Institutions, PİŞİRİCİ MUTFAK ÜRÜNLERİ TASARIMINA KÜRESEL VE YEREL KÜLTÜR ETKİLERİNİN ARAŞTIRILMASI: FIRIN VE OCAK TASARIMI UYGULAMALARI, 2018 - 2022

Cerit A. A., Sinanoğlu C., KOSGEB, İlk ve Orta Dereceli Öğretim İçin Enerji Kaynak ve Kavramlarını Öğreten Uygulamalı Eğitim Seti Tasarımı ve Prototip İmalatı, 2019 - 2020

NAİR F., GÜNEŞ R., CERİT A. A., Duman İ., TUBITAK Project, Fonksiyonel Derecelendirilmiş Fe/B4C-B Kompozit Yapıların Üretimi, Metalografik Ve Termo-Mekanik Davranışlarının İncelenmesi , 2018 - 2020

Cerit A. A., Sinanoğlu C., EU Supported Other Project, Strategic Partnerships for Embodiment Design Methodology in Vocational Education (Yellow Tulip), 2016 - 2019

CERİT A. A., NAİR F., GÜNEŞ R., KARAMIŞ M. B., HAMAMCI M., Project Supported by Higher Education Institutions, Fe matrisli B-B4C takviyeli fonksiyonel kademelenendirilmiş kompozitin üretimi, içyapı ve mekanik özelliklerinin karakterizasyonu, 2014 - 2017

AKSU Ö., CERİT A. A., SİNANOĞLU C., AKGÜL E., EU Supported Other Project, MAKİNA TASARIM VE İMALAT ALANINDA MESLEKİ EĞİTİMİN İÇERİĞİNİN VE KALİTESİNİN ARTTIRILMASI (MUSAVVIR) PROJESİ, 2014 - 2015

KARAMIŞ M. B., CERİT A. A., Project Supported by Higher Education Institutions, METAL MATRİSLİ KOMPOZİTTEN MAMUL MAKİNA ELEMANLARININ ÜRETİMİ VE TRİBOLOJİK ÖZELLİKLERİNİN İNCELENMESİ, 2007 - 2009

KARAMIŞ M. B., NAİR F., CERİT A. A., Project Supported by Higher Education Institutions, ALİMÜYUM ESASLI, PARÇACIK VE FİBER TAKVİYELİ METAL MATRİSLİ KOMPOZİTLERİN BASINÇLI DÖKÜM YÖNTEMİYLE ÜRETİLMESİ VE BALİSTİK PERFORMANSININ İNCELENMESİ, 2004 - 2006

Activities in Scientific Journals

JOURNAL OF THE BALKAN TRIBOLOGICAL ASSOCIATION, Publication Committee Member, 2014 - Continues

Memberships / Tasks in Scientific Organizations

Erciyes Tasarım ve İmalat Derneği (ETİMDER), Vice President, 2010 - Continues

Triboloji Derneği, Member, 2002 - Continues

Scientific Refereeing

TUBITAK Project, 1002 - Quick Support Program, Erciyes University, Turkey, October 2022

Turkish National Agency, Erciyes University, Turkey, July 2022

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Erciyes University, Turkey, June 2022

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Erciyes University, Turkey, June 2022

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Erciyes University, Turkey, June 2022

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Erciyes University, Turkey, June 2022

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Erciyes University, Turkey, March 2022

TUBITAK Project, May 2018

TUBITAK Project, May 2018

Journal of The Balkan Tribological Association, SCI Journal, June 2015

Journal of The Balkan Tribological Association , SCI Journal, January 2015

Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi (PAJES), National Scientific Refreed Journal, November 2014

Materials & Design, SCI Journal, October 2014

Indian Journal of Engineering & Materials Sciences, Other Indexed Journal, August 2014

Journal of Materials Processing Technology, SCI Journal, August 2014

International Journal of Materials and Product Technology, SCI Journal, July 2014

Journal of Materials Processing Technology, SCI Journal, June 2014
Journal of The Balkan Tribological Association, SCI Journal, March 2014
TURKISH JOURNAL OF PHYSICS, Other journals, February 2014
Project Supported by Higher Education Institutions, February 2014
Duzce University Journal of Science & Technology, National Scientific Refreed Journal, January 2014
Science and Engineering of Composite Materials, SCI Journal, June 2013
Project Supported by Higher Education Institutions, June 2013
Journal of The Balkan Tribological Association, SCI Journal, May 2013
TUBITAK Project, May 2013
Journal of Materials Processing Technology, SCI Journal, March 2013
Metals, SCI Journal, May 2012
Makine Teknolojileri Elektronik Dergisi, Afyon Kocatepe Üniversitesi, National Scientific Refreed Journal, March 2012
Journal of Materials Processing Technology, SCI Journal, November 2011
Journal of Materials Processing Technology, SCI Journal, April 2011
Journal of Materials Processing Technology, SCI Journal, August 2007
Journal of Materials Processing Technology, SCI Journal, June 2007
Journal of Materials Processing Technology, SCI Journal, April 2007

Metrics

Publication: 37
Citation (WoS): 154
Citation (Scopus): 176
H-Index (WoS): 8
H-Index (Scopus): 7

Congress and Symposium Activities

II. Ulusal Ege Kompozit Malzemeler Sempozyumu - KOMPEGE, Attendee, Kuşadası/AYDIN, Turkey, 2013