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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAR-5447-2020

ScopusID: 56496756200

Yoksis Researcher ID: 204061

Learning Knowledge

Doctorate
2015 - Continues

Karadeniz Technical University, -, Makina Mühendisliği, Turkey

Postgraduate
2012 - 2014

Karadeniz Technical University, Mühendislik Fakültesi/Fen Bilimleri Enstitüsü,
Makina Mühendisliği, Turkey

Undergraduate
2004 - 2011

Karadeniz Technical University, Mühendislik Fakültesi, Makina Mühendisliği,
Turkey

Dissertations

Postgraduate, İlk Hidromekanik Derin Çekme Prosesinin Sonlu Elemanlar Analizi ve Parametrik Optimizasyonu,
Karadeniz Technical University, -, Makina Mühendisliği, 2015

Academic Titles / Tasks

Research Assistant
2014 - Continues

Karadeniz Technical University, Fen Bilimleri Enstitüsü

Supported Projects

1. Cora Ö. N., Acar D., Klobčaroc D., Trdan U., TÜBİTAK International Bilateral Joint Cooperation Program Project, Solid-State Welding of Ultrasonically Consolidated Ti-Al Laminated Composites and Aluminum Alloys and Investigations on Tahir Mechanical, Corrosion Performance, and Adhesion Strength Against Laser Shock Impacts, 2022 - 2024
2. Gedikli H., Alemdağ Y., Pürçek G., Sofuoğlu H., Öztürk B., Bacaksız E., Çanakçı A., Budur A. İ., Varol T., Aslan M., et al., Project Supported by Higher Education Institutions, Soğuk püskürtme eklemeli üretim sisteminin tasarımı imalatı ve ileri mühendislik ürünü parça imalatına yönelik uygulamalar için geliştirilmesi, 2021 - 2024

3. GEDİKLİ H., MERİÇ D., BUDUR A. İ., CORA Ö. N., ÖZEN İ., ACAR D., ÇETİN M. E., GÜMRÜK R., Project Supported by Higher Education Institutions, ÖRGÜLÜ ELYAF TAKVİYELİ KOMPOZİT YAPILARIN MEKANİK VE BALİSTİK ÖZELLİKLERİNİN ARAŞTIRILMASI, 2016 - 2018
4. Gedikli H., Sofuoğlu H., Cora Ö. N., Gümrük R., Meriç D., Özen İ., Acar D., Budur A. İ., Kuleyin H., Project Supported by Other Official Institutions, DÜŞÜK ENERJİLİ ÇARPIŞMA ALTINDA AŞINMA KALKANINDA MEYDANA GELEN HASARIN DENEYSEL VE SAYISAL OLARAK İNCELENMESİ (TUSAŞ-TAI/DKTM), 2015 - 2017
5. Gedikli H., Cora Ö. N., Halkacı H. S., TUBITAK Project, İLİK HİDROMEKANİK DERİN ÇEKMEDE SICAKLIK, SIVI BASINCI ve BASKI PLAKASI KUVVETİNİN PROSESE ve ÜRETİLEN PARÇALARA ETKİLERİNİN ARAŞTIRILMASI, 2012 - 2015

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Effect of Friction Stir Process on Hole Expansion Behavior of Dual Phase Steel**
AKTARER S. M., ACAR D., KÜÇÜKÖMEROĞLU T.
Journal of Materials Engineering and Performance, vol.33, no.14, pp.7020-7039, 2024 (SCI-Expanded)
2. **Ballistic performances of Ramor 500, ArmoX Advance and Hardox 450 steels under monolithic, double-layered, and perforated conditions**
Acar D., Canpolat B. H., Cora Ö. N.
ENGINEERING SCIENCE AND TECHNOLOGY, AN INTERNATIONAL JOURNAL, vol.51, no.101653, pp.1-8, 2024 (SCI-Expanded)
3. **Effect of Process Parameters on the Solid Particle Erosion Resistance of Transparent Materials**
Acar D., Danesh M. H., Cora Ö. N.
TRIBOLOGY IN INDUSTRY, vol.45, no.4, pp.604-617, 2023 (SCI-Expanded)
4. **Characterization of Al₂Ti/Al₃Ti-based intermetallic and Al₂O₃/TiO₂-based oxide composite coatings fabricated on Ti6Al4V alloy**
Aktuğ S. L., Acar D., Cora Ö. N., Durdu S.
KOVOVE MATERIALY, vol.65, no.5, pp.339-350, 2023 (SCI-Expanded)
5. **Uniaxial and biaxial deformation characteristics of AA7075-O friction stir welded joints**
ACAR D., Karalı M., CORA Ö. N., Burford D., Koç M.
Welding in the World, vol.64, no.9, pp.1553-1564, 2020 (SCI-Expanded)
6. **On the Formability of Ultrasonic Additive Manufactured Al-Ti Laminated Composites**
Kaya I., CORA Ö. N., ACAR D., KOÇ M.
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, no.10, pp.5051-5064, 2018 (SCI-Expanded)
7. **Warm Hydromechanical Deep Drawing of AA 5754-0 and Optimization of Process Parameters**
ACAR D., Turkoz M., GEDİKLİ H., Halkacı H. S., CORA Ö. N.
JOURNAL OF ENGINEERING MATERIALS AND TECHNOLOGY-TRANSACTIONS OF THE ASME, vol.140, no.1, 2018 (SCI-Expanded)

Articles Published in Other Journals

1. **Solid particle erosion performance of micro-arc oxidation and electro spark deposition coated Ti6Al4V sheets**
Acar D., Aktuğ S. L., Korkmaz K., Durdu S., Cora Ö. N.
The International Journal of Materials and Engineering Technology, vol.5, no.1, pp.28-32, 2022 (Peer-Reviewed Journal)
2. **Ilık Hidromekanik Derin Çekme Prosesinde Optimum Şekillendirme Parametrelerinin Belirlenmesi**
ACAR D., TÜRKÖZ M., DİLMEÇ M., HALKACI H. S., GEDİKLİ H., CORA Ö. N.
Ordu Üniversitesi Bilim ve Teknoloji Dergisi, vol.6, no.2, pp.38-47, 2016 (Peer-Reviewed Journal)

- 3. The Effect of Thermal Coefficients on Temperature Condition of the Blank in FE Analysis of Warm Hydro mechanical Deep Drawing Process**
TÜRKÖZ M., ACAR D., ÖZTÜRK E., HALKACI H. S.
INTERNATIONAL JOURNAL OF ADVANCED RESEARCH IN ENGINEERING (IJARE), vol.1, no.3, pp.1-5, 2015 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- 1. Solid Particle Erosion Performance of Drone Propeller Materials**
Acar D., Meriç D., Gedikli H., Schulz A., Cora Ö. N.
The 5th International Conference of Materials and Engineering Technology, Trabzon, Turkey, 13 - 15 November 2023, pp.1
- 2. Friction Stir Welding of Ultrasonically Consolidated Laminated Metal Composites with Aluminum Sheets**
Acar D., Klobčar D., Uroš T., Cora Ö. N.
European Conference on Composite Materials ECCM20, Lausanne, Switzerland, 26 - 30 June 2022, pp.1
- 3. Investigation on the Solid Particle Erosion of Some Glass and Polymeric Transparent Materials**
Danesh M. H., Acar D., Cora Ö. N.
The International Conference of Materials and Engineering Technology, Gaziantep, Turkey, 5 - 06 November 2021, pp.1
- 4. Effect of Surface Texturing on Tribological Behavior of SAE 600 Bearing Bronze**
Acar D., Tan H. O., Cora Ö. N.
The International Conference of Materials and Engineering Technology, Gaziantep, Turkey, 5 - 06 November 2021, pp.1
- 5. Erosive Wear Performance of Ti6Al4V Coated with Micro Arc Oxidation and Electro Spark Deposition**
Acar D., Aktuğ S. L., Korkmaz K., Durdu S., Cora Ö. N.
The International Conference of Materials and Engineering Technology (TICMET'20), Gaziantep, Turkey, 5 - 07 November 2020, pp.328-335
- 6. Ballistic Performance of Ultra-High Strength Armor Steels Under Different Conditions**
ACAR D., CANPOLAT B. H., USTA E., CORA Ö. N.
The International Conference of Materials and Engineering Technology, TICMET 19, Gaziantep, Turkey, 10 - 12 October 2019, pp.10
- 7. Effect of Surface Texturing on Tribological Behaviour**
ACAR D., TAN H. O., CORA Ö. N.
International Conference on Agriculture Technology, Engineering and Sciences, ICATES 2019, Lviv, Ukraine, 18 - 20 September 2019, pp.1-20
- 8. Investigation on Formability of Varied Aluminum Alloys Through Warm Closed-die Hydroforming**
ACAR D., TAN H. O., CORA Ö. N.
International Conference on Agriculture Technology, Engineering and Sciences, ICATES 2019, Lviv, Ukraine, 18 - 20 September 2019, pp.1-20
- 9. Surface Texture Application on UHMWE for Medical Applications**
ACAR D., TAN H. O., CORA Ö. N.
International Conference on Agriculture Technology, Engineering and Sciences, ICATES 2019, Lviv, Ukraine, 18 - 20 September 2019, pp.1-20
- 10. Solid Particle Erosion Performance of Ti-6Al-4V as Erosion Shield Material**
ACAR D., CORA Ö. N.
1st International Symposium on Light Alloys and Composite Materials (ISLAC'18), Karabük, Turkey, 22 - 24 March 2018, pp.109-110
- 11. Solid Particle Erosion Performance Evaluation of Ti-6Al-4V as Erosion Shield Material of a**

Helicopter Rotor Blade

ACAR D., CORA Ö. N.

1st International Symposium on Light Alloys and Composite Materials, Karabük, Turkey, 22 - 24 March 2018, vol.1, no.1, pp.1-2

12. Formability Enhancement of AA5754-O Aluminium Alloy via Double-sided Hydroforming

ACAR D., CORA Ö. N.

1st International Symposium on Light Alloys and Composite Materials, Karabük, Turkey, 22 - 24 March 2018, pp.107-108

13. Experimental investigations on particle erosion behavior of AA 6061 alloy

ACAR D., MERİÇ D., BUDUR A. İ., GÜMRÜK R., SOFUOĞLU H., GEDİKLİ H., CORA Ö. N.

9th Anakara International Aerospace Conference, Ankara, Turkey, 20 - 22 September 2017, pp.1-10

14. Effect of Surface Texturing on Tribological Performance of Ultra-High Molecular Weight Polyurethane

ACAR D., TAN H. O., CORA Ö. N.

3rd International Conference on Engineering and Natural Sciences, ICENS, Budapeşte, Hungary, 3 - 05 May 2017

15. Hydroformability of Advanced High Strength Steels Through FEA

ACAR D., CORA Ö. N.

3rd International Iron and Steel Symposium, Karabük, Turkey, 3 - 05 April 2017, pp.74-78

16. Investigation on the Optimal Geometrical Parameters for Cylindrical Cups in Warm Hydromechanical Deep Drawing Process

TÜRKÖZ M., Acar D., Dilmeç M., HALKACI H. S.

8th International Conference on Mechanical and Aerospace Engineering (ICMAE), Prague, Czech Republic, 22 - 25 July 2017, pp.155-159

17. Helikopter Palinin Aşınma Kalkanında Meydana Gelen Katı Parçacık Erozyonunun İncelenmesi İçin Bir Test Düzeneği Tasarımı ve İmalatı

ACAR D., MERİÇ D., SOFUOĞLU H., GÜMRÜK R., CORA Ö. N., GEDİKLİ H.

VI. Ulusal Havacılık ve Uzay Kongresi 2016, Kocaeli, Turkey, 28 - 30 September 2016, pp.1082-1094

18. AA 5754-O Alaşımının Hidroşekillendirilmesinde Etkin Parametrelerin Optimizasyonu

ACAR D., CORA Ö. N.

8. OTOMOTİV TEKNOLOJİLERİ KONGRESİ, Bursa, Turkey, 23 - 24 May 2016, vol.1, no.1, pp.153-158

19. The Effect of Thermal Coefficients on Temperature Condition of the Blank in FE Analysis of Warm Hydro mechanical Deep Drawing Process

TÜRKÖZ M., ACAR D., ÖZTÜRK E., HALKACI H. S.

3rd International Conference On Innovative Trends In Science, Engineering and Management 2015 (ICITSEM 2015), Dubai, United Arab Emirates, 28 - 29 October 2015, vol.1, no.3, pp.1-5

20. AA 5754 O Alaşımının İlk Hidroşekillendirilmesinde Etkin Olan Parametrelerin Optimizasyonu

ACAR D., CORA Ö. N.

BIAS Mühendislik Kullanıcı Konferansı 2015, İstanbul, Turkey, 12 - 13 May 2015

21. Finite element analysis and experimental validation of warm hydromechanical deep drawing process

Acar D., Turkoz M., Gedikli H., Cora Ö. N.

2014 5th International Conference on Information Technology for Manufacturing Systems, ITMS 2014, Singapore, Singapore, 16 - 17 September 2014, vol.686, pp.535-539

Scientific Refereeing

JOURNAL OF ALLOYS AND COMPOUNDS, Journal Indexed in SCI-E, August 2024

INTERMETALLICS, Journal Indexed in SCI-E, August 2024

MATERIALS LETTERS, Journal Indexed in SCI-E, June 2024

INTERMETALLICS, Journal Indexed in SCI-E, April 2024

WEAR, Journal Indexed in SCI-E, January 2024

JOURNAL OF ALLOYS AND COMPOUNDS, Journal Indexed in SCI-E, November 2023
JOURNAL OF ALLOYS AND COMPOUNDS, SCI Journal, October 2023
Emerging Materials Research, Journal Indexed in SCI-E, July 2023
Emerging Materials Research, Journal Indexed in SCI-E, May 2023
GREEN MATERIALS, Journal Indexed in SCI-E, April 2023
Emerging Materials Research, Journal Indexed in SCI-E, April 2023
WEAR, SCI Journal, April 2023
Uluslararası Mühendislik Araştırma ve Geliştirme Dergisi, Other Indexed Journal, November 2022
Emerging Materials Research, Journal Indexed in SCI-E, November 2022
International Journal of Thermodynamics, Journal Indexed in ESCI, October 2022
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, Other Indexed Journal, August 2022
Journal of Science, Technology and Engineering Research, Other Indexed Journal, July 2022
European Journal of Technique, Other Indexed Journal, July 2022
Journal of Science, Technology and Engineering Research, Other Indexed Journal, February 2022
Mühendis ve Makina, National Scientific Refreed Journal, September 2021
Mühendis ve Makina, National Scientific Refreed Journal, August 2021
International Journal of Thermodynamics, Journal Indexed in ESCI, July 2021
Journal of Materials and Mechatronics: A, Other Indexed Journal, May 2021
International Journal of Automotive Science And Technology, Other Indexed Journal, March 2021
International Journal Of Thermodynamics, Journal Indexed in ESCI, March 2021
ENGINEERING SCIENCE AND TECHNOLOGY-AN INTERNATIONAL JOURNAL-JESTECH, Journal Indexed in SCI-E, February 2021
Mühendis ve Makina, National Scientific Refreed Journal, February 2021
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, SCI Journal, February 2021
Karadeniz Fen Bilimleri Dergisi, National Scientific Refreed Journal, May 2019
ENGINEERING SCIENCE AND TECHNOLOGY-AN INTERNATIONAL JOURNAL-JESTECH, Journal Indexed in ESCI, April 2018
Engineering Science and Technology, an International Journal, JESTECH, Journal Indexed in ESCI, March 2018
Engineering Science and Technology, an International Journal, JESTECH, Journal Indexed in ESCI, March 2018
Engineering Science and Technology, an International Journal, JESTECH, Journal Indexed in ESCI, February 2018
Engineering Science and Technology, an International Journal, JESTECH, Journal Indexed in ESCI, January 2018
Turkish Journal of Electromechanics & Energy, Other Indexed Journal, December 2017
Engineering Science and Technology, an International Journal, JESTECH, Journal Indexed in ESCI, December 2017
International Journal of Advances on Automotive Technology, Other Indexed Journal, October 2017

Metrics

Publication: 35
Citation (WoS): 25
Citation (Scopus): 29
H-Index (WoS): 2
H-Index (Scopus): 3

Congress and Symposium Activities

1st International Symposium on Light Alloys and Composite Materials, Attendee, Karabük, Turkey, 2018
9th Ankara International Aerospace Conference, Attendee, Ankara, Turkey, 2017
3rd International Iron and Steel Symposium, Attendee, Karabük, Turkey, 2017

VI. Ulusal Havacılık ve Uzay Kongresi, Attendee, Kocaeli, Turkey, 2016
TAI - I. Genç Arařtırmacılar alıřtayı, Attendee, Ankara, Turkey, 2016
8. Otomotiv Teknolojileri Kongresi, Attendee, Bursa, Turkey, 2016
BİAS Kullanıcı Konferansı 2015, Attendee, İstanbul, Turkey, 2015

Research Areas

Mechanical Engineering, Construction and Manufacturing, Machine Design, Computer Aided Design and Manufacturing, Non-traditional manufacturing methods, Plastic Forming Methods, Mechanical, Solid Mechanics, Fracture Mechanics, Finite Element Methods, Mechanical Testing, Continuous Mechanics, Engineering and Technology

Non Academic Experience

Other, Türkiye Bilimsel Ve Teknolojik Arařtırma Kurumu
Business Establishment Private, olakođlu Mühendislik Makina
OLAKOĐLU MÜHENDİSLİK MAKİNA SAN. TİC. LTD. ŐTİ