

Arş. Gör. BERKAY KARAÇOR

Kişisel Bilgiler

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Publons / Web Of Science ResearcherID: J-2845-2018

Yoksis Araştırmacı ID: 283408

Eğitim Bilgileri

Doktora, Çukurova Üniversitesi, Mühendislik Fakültesi, Otomotiv Mühendisliği, Türkiye 2020 - Devam Ediyor

Yüksek Lisans, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Otomotiv Mühendisliği, Türkiye 2017 - 2020

Lisans, Çukurova Üniversitesi, Mühendislik Fakültesi, Otomotiv Mühendisliği, Türkiye 2012 - 2017

Yabancı Diller

İngilizce, B2 Orta Üstü

Sertifika, Kurs ve Eğitimler

Mesleki Eğitim, INTRODUCTION TO ANSYS MECHANICAL, ANOVA, 2018

İş Sağlığı ve Güvenliği, İş Sağlığı ve Güvenliği Uzmanı-C Sınıfı, İris Akademi, 2017

Mesleki Eğitim, Taşlama ve Kesme Taşlarının Güvenli ve Verimli Kullanımı, PFERD Aşındırıcı Takımlar, 2016

Mesleki Eğitim, 3DS MAX Eğitimi, CEO Kariyer Geliştirme ve Planlama Merkezi, 2014

Mesleki Eğitim, CATIA Eğitimi, CEO Kariyer Geliştirme ve Planlama Merkezi, 2013

Yaptığı Tezler

Yüksek Lisans, The Usage of Natural Fiber Reinforced Hybrid Composite Materials as an Alternative to Automobile Interior Plastics, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Otomotiv Mühendisliği, 2020

Araştırma Alanları

Metalurji ve Malzeme Mühendisliği, Malzeme Bilimi ve Mühendisliği, Kompozitler, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Araştırma Görevlisi, Çukurova Üniversitesi, Mühendislik Fakültesi, Otomotiv Mühendisliği, 2018 - Devam Ediyor

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **The influence of hybridization and different manufacturing methods on the mechanical properties of the composites reinforced with basalt, jute, and flax fibers**
KARAÇOR B., ÖZCANLI M., SERİN H.
Iranian Polymer Journal (English Edition), cilt.33, sa.3, ss.289-304, 2024 (SCI-Expanded)
- II. **Hybrid jute/carbon fiber composites: optimum post-curing time**
Karaçor B., Özcanlı M., Kumlu U.
IRANIAN POLYMER JOURNAL (ENGLISH EDITION), cilt.32, ss.1443-1454, 2023 (SCI-Expanded)
- III. **Properties of basalt/aramid fiber reinforced hybrid composites compared to carbon fiber composites**
Çelik O., Yaşar A., Karaçor B.
POLYMER COMPOSITES, cilt.44, sa.6, ss.3509-3521, 2023 (SCI-Expanded)
- IV. **Thermal and mechanical characteristic investigation of the hybridization of basalt fiber with aramid fiber and carbon fiber**
KARAÇOR B., ÖZCANLI M.
POLYMER COMPOSITES, cilt.43, sa.11, ss.8529-8544, 2022 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **A Short Review: The Use and Application of Matrix Resins Formed with Some Plant-Based Oils in Bio-Composite Materials**
Karaçor B., Özcanlı M.
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, cilt.12, sa.3, ss.1315-1333, 2024 (Hakemli Dergi)
- II. **Investigation of the Use of Hybrid Composite Materials Formed Using Two Different Resins in Vehicle Bumpers**
Yalçın F., Özcanlı M., Karaçor B.
Osmaniye Korkut Ata Üniversitesi Fen Bilimleri Enstitüsü Dergisi (Online), cilt.7, sa.2, ss.751-766, 2024 (Hakemli Dergi)
- III. **Türkiye’de Makine Mühendisliği Eğitimi Veren Üniversitelerin Mevcut Durumunun Araştırılması**
KARACOR B.
Üniversite Araştırmaları Dergisi (Online), cilt.6, sa.2, ss.191-198, 2023 (Hakemli Dergi)
- IV. **Analysis of Mechanical Properties of Flax/Carbon Fiber Reinforced Hybrid Composites Produced Using Two Different Production Methods**
Karaçor B., Özcanlı M.
Journal of Engineering Sciences and Design, cilt.11, sa.2, ss.459-473, 2023 (Hakemli Dergi)
- V. **Examination of Fiber Reinforced Composite Materials**
Karaçor B., Özcanlı M.
GAZI UNIVERSITY JOURNAL OF SCIENCE, cilt.36, sa.1, ss.301-320, 2023 (Scopus)
- VI. **Characterization Of Jute/Aramid Hybrid Composite Materials with Using Different Resins**
Karaçor B., Özcanlı M.
SAKARYA UNIVERSITY JOURNAL OF SCIENCE, cilt.26, sa.5, ss.915-930, 2022 (Hakemli Dergi)
- VII. **Evaluation of Mechanical Properties of Intraply Hybrid Carbon/Aramid Composite Materials**
Karaçor B., Özcanlı M.
Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, cilt.27, sa.2, ss.537-556, 2022 (Hakemli Dergi)
- VIII. **Post curing temperature effect on mechanical characterization of jute/basalt fiber reinforced hybrid composites**
Karaçor B., Özcanlı M.
International Advanced Researches and Engineering Journal, cilt.6, sa.2, ss.90-99, 2022 (Hakemli Dergi)
- IX. **The effect of use of different types of matrix material on mechanical characteristics in jute/carbon**

fiber reinforced hybrid composites

Karaçor B., Özcanlı M.

Niğde Üniversitesi Mühendislik Bilimleri Dergisi, cilt.11, sa.2, ss.439-448, 2022 (Hakemli Dergi)

- X. **Effect of Various Matrix Materials on Mechanical Properties of Basalt/Jute/Glass Fiber Reinforced Hybrid Composites**
Karaçor B., Özcanlı M.
Çukurova Üniversitesi Mühendislik Fakültesi dergisi, cilt.36, sa.4, ss.941-954, 2021 (Hakemli Dergi)
- XI. **Different Curing Temperature Effects on Mechanical Properties of Jute/Glass Fiber Reinforced Hybrid Composites**
Karaçor B., Özcanlı M.
International Journal of Automotive Science and Technology, cilt.5, sa.4, ss.358-371, 2021 (Hakemli Dergi)
- XII. **Feasibility of a Composite Material Formed with a Waste Granular Rubber Tire on Racing Vehicle Aerodynamic Wings**
Karaçor B., Akar M. A., Özcanlı M., Serin H., Baş O.
Osmaniye Korkut Ata Üniversitesi Fen Bilimleri Enstitüsü Dergisi, cilt.3, sa.2, ss.26-31, 2020 (Hakemli Dergi)
- XIII. **Investigation of Use of Hybrid Composite Materials in Automobile Interior**
Karaçor B., Özcanlı M.
International Journal of Automotive Engineering and Technologies, cilt.9, sa.4, ss.214-228, 2020 (Hakemli Dergi)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **The Effect of Using Different Materials in Electric Vehicle Rims on Vibration Behavior**
Karaçor B., Gökçe Y. E., Özcanlı M.
6. International Mediterranean Scientific Research Congress, Rome, İtalya, 13 - 15 Ağustos 2024, ss.210-211
- II. **Fatigue Analysis of the Rim Designed for Mini Electric Vehicle**
Karaçor B., Kaysadı K., Özcanlı M.
6. International Mediterranean Scientific Research Congress, Rome, İtalya, 13 - 15 Ağustos 2024, ss.208-209
- III. **Effect of Different Geometric Designs and Change of Materials on Piston Head Thermal Analysis**
Karaçor B., Avkan İ., Özcanlı M.
10. International European Congress on Advanced Studies in Basic Sciences , Amsterdam, Hollanda, 26 - 28 Temmuz 2024, ss.386-401
- IV. **Weight Reduction Using Ultra High Strength Steel (UHSS) in Semi Trailer Chassis**
Talas T., Karaçor B., Özcanlı M.
10. International European Congress on Advanced Studies in Basic Sciences , Amsterdam, Hollanda, 26 - 28 Temmuz 2024, ss.1112-1128
- V. **A Modal Analysis Study Using Different Materials in the Formula Student Car Chassis**
Karaçor B., Elçim M. M., Özcanlı M.
6th International Conference on Global Practice of Multidisciplinary Scientific Studies, Lisbon, Portekiz, 9 - 16 Nisan 2024, ss.1982-2005
- VI. **An Optimization Study: Examining Different Materials Usage in the Truck Chassis**
Karaçor B., Aslan A., Özcanlı M., Kılınç Ö.
6th International Conference on Global Practice of Multidisciplinary Scientific Studies, Lisbon, Portekiz, 9 - 16 Nisan 2024, ss.2006-2033
- VII. **A Case Study: Examining Vibration Analysis of Leaf Springs with Design Optimization**
Karaçor B., Özcanlı M., Elçim M. M.
Ankara International Congress on Scientific Research-IX, Ankara, Türkiye, 26 Aralık 2023, ss.199-212
- VIII. **Investigation of fatigue analysis in different designs and materials of commercial vehicle brake discs**
Karaçor B., Özcanlı M., Çeliktöpus Ç.
Ankara International Congress on Scientific Research-IX, Ankara, Türkiye, 26 - 29 Aralık 2023, ss.179-198
- IX. **Examination of different material designs through finite element analysis on the military vehicle**

platform

Kumlu U., Karaçor B., Kılınç Ö., Aslan A.

IV. International Siirt Conference on Scientific Research, Siirt, Türkiye, 17 - 18 Kasım 2023, ss.268-286

- X. **Crashworthiness analysis of circular and elliptical cross-sectional beams in vehicle door**
Kumlu U., Karaçor B., Özkeser B., Aslan A.
IV. International Siirt Conference on Scientific Research, Siirt, Türkiye, 17 - 18 Kasım 2023, ss.287-300
- XI. **Investigation of fatigue life using finite element method with the use of different materials in leaf spring design**
Karaçor B., Hükümdar Ö., Özcanlı M.
9th International Black Sea Coastline Countries Scientific Research Conference, Ankara, Türkiye, 10 - 11 Ağustos 2023, ss.140-154
- XII. **A case study: Vibration analysis by finite element method in electric micro vehicle chassis**
Karaçor B., Hükümdar Ö., Özcanlı M.
9th International Black Sea Coastline Countries Scientific Research Conference, Ankara, Türkiye, 10 - 11 Ağustos 2023, ss.412-426
- XIII. **Thermal analysis on brake disc structures of different geometric design shapes and material usage**
Karaçor B., Hükümdar Ö., Özcanlı M.
4th International Black Sea Modern Scientific Research Congress, Rize, Türkiye, 06 Haziran 2023, ss.1634-1648
- XIV. **Effects of using different materials on the crankshaft in modal analysis**
Karaçor B., Hükümdar Ö., Özcanlı M.
4th International Black Sea Modern Scientific Research Congress, Rize, Türkiye, 06 Haziran 2023, ss.1611-1633
- XV. **A case study: Fatigue analysis simulation using different materials on the front axle**
Karaçor B., Özcanlı M., Hükümdar Ö.
3th International Mediterranean Congress, Mersin, Türkiye, 17 - 18 Nisan 2023, ss.568-581
- XVI. **Modal analysis and structural simulation of heavy commercial vehicle chassis**
Karaçor B., Özcanlı M., Hükümdar Ö.
3th International Mediterranean Congress, Mersin, Türkiye, 17 - 18 Nisan 2023, ss.582-602
- XVII. **Thermogravimetric analysis in nitrogen ambient of copper/titania selective catalytic reduction catalyst poisoned with calcium**
Özarslan H., Karaçor B.
3th International Siirt Scientific Research Congress, Siirt, Türkiye, 18 - 19 Kasım 2022, ss.586-595
- XVIII. **Ballistic evaluation of armor plates at different angles**
Kumlu U., Akar M. A., Başer D., Hükümdar Ö., Karaçor B.
2nd International Congress on Multidisciplinary Natural Sciences, Ankara, Türkiye, 01 Aralık 2022, ss.230-240
- XIX. **A case study: Weight reduction studies on an electric micro car using different materials**
Karaçor B., Hükümdar Ö., Göktepe S., Tombuloğlu A. Ç., Özcanlı M.
3th International Siirt Scientific Research Congress, Siirt, Türkiye, 18 Kasım 2022, ss.2835-2848
- XX. **The effect of the use of different materials and design optimization in the connecting rod on fatigue analysis**
Karaçor B., Duman A. K., Özcanlı M.
2nd International Congress on Multidisciplinary Natural Sciences(ICOMNAS 2022), 1 - 02 Aralık 2022, ss.219-229
- XXI. **Effect of cerium addition on thermogravimetric analysis of iron/titania catalyst for selective catalytic reduction system**
Özarslan H., Karaçor B.
7th International Mediterranean Science and Engineering Congress(IMSEC 2022), Antalya, Türkiye, 24 - 26 Ekim 2022, ss.189-192
- XXII. **Fatigue analysis and weight reduction studies in rear axle design using different materials**
Karaçor B., Hükümdar Ö., Eşki Ü., Divanoğlu A., Özcanlı M.
7th International Mediterranean Science and Engineering Congress(IMSEC 2022), Antalya, Türkiye, 24 - 26 Ekim 2022, ss.255-262
- XXIII. **Effect of rotational thrust on different geometries in crashing boxes**

Kumlu U., Erdal D., Karaçor B., Akar M. A.

7th International Mediterranean Science and Engineering Congress (IMSEC 2022), Antalya, Türkiye, 24 - 26 Ekim 2022, cilt.1, sa.212, ss.508-514

XXIV. Investigation of high-strength steel usage in Cukurova 885 model backhoe loader boom

Gurbet Z., Karahan Ü., Pesen E., Karaçor B., Özcanlı M.

7th International Mediterranean Science and Engineering Congress(IMSEC 2022), Antalya, Türkiye, 24 - 26 Ekim 2022, ss.574

XXV. The effect of air gap of multi-layered armour configuration during ballistic impact

Kumlu U., Aldatmaz İ., Akar M. A., Karaçor B., Ercan E. S., Erdal D.

7th International Mediterranean Science and Engineering Congress (IMSEC 2022), Antalya, Türkiye, 24 - 26 Ekim 2022, cilt.1, sa.236, ss.565-570

XXVI. Ballistic performance of multi-layered armor steel plates

Karaçor B., Kartal K.

6th International Mediterranean Science and Engineering Congress (IMSEC 2021), Antalya, Türkiye, 25 - 27 Ekim 2021, ss.597-603

XXVII. Investigation of bucket teeth stress-deformation distribution by using ultra high strength material

Gurbet Z., Karaçor B., Özcanlı M.

6th International Mediterranean Science and Engineering Congress (IMSEC 2021), Antalya, Türkiye, 25 - 27 Ekim 2021, ss.590-594

XXVIII. Investigation of modal analysis of connecting rod by using ultra- high strength steel

Karaçor B., Temiz F., Sonat S., Özcanlı M.

6th International Mediterranean Science and Engineering Congress (IMSEC 2021), Antalya, Türkiye, 25 - 27 Ekim 2021, ss.604-608

XXIX. Crashworthiness analysis of heavy truck chassis by using finite element analysis

Karaçor B., Kapulu İ., Kumlu U., Özcanlı M.

6th International Mediterranean Science and Engineering Congress (IMSEC 2021), Antalya, Türkiye, 25 - 27 Ekim 2021, ss.635-642

XXX. A case study: The use of different projectile types to determine the ballistic performance of armored plates

Karaçor B., Kazanlık C.

6th International Mediterranean Science and Engineering Congress (IMSEC 2021), Antalya, Türkiye, 25 - 27 Ekim 2021, ss.669-674

XXXI. Investigation of fatigue behaviour of different materials on crankshaft

Karaçor B., Demirtaş F., Ata F., Özcanlı M.

6th International Mediterranean Science and Engineering Congress (IMSEC 2021), Antalya, Türkiye, 25 - 27 Ekim 2021, ss.579-584

XXXII. Evaluation of ultra-high strength materials in heavy truck chassis

Karaçor B., Hükümdar Ö., Akdağcık D., Özcanlı M.

6th International Mediterranean Science and Engineering Congress (IMSEC 2021), Adana, Türkiye, 25 - 27 Ekim 2021, ss.585-589

XXXIII. Evaluation of ultra-high strength steel as a material for connecting rod

Çalık A., Karaçor B., Tosun E., Özcanlı M.

5th International Mediterranean Science and Engineering Congress (IMSEC 2020), Antalya, Türkiye, 21 - 23 Ekim 2020, ss.249-253

XXXIV. Advanced steel applications for race car protection bars

Karaçor B., Özcanlı M.

5th International Mediterranean Science and Engineering Congress (IMSEC 2020), Antalya, Türkiye, 21 - 23 Ekim 2020, ss.245-248

XXXV. Comparison of stainless steel and ultra-high strength steel usage as a piston head material in internal combustion engines

Özcanlı M., Akar M. A., Karaçor B.

- 5th International Mediterranean Science and Engineering Congress (IMSEC 2020), Antalya, Türkiye, 21 - 23 Ekim 2020, ss.254-258
- XXXVI. **Advanced steel usage as a crankshaft materials in internal combustion engines; A case study**
Karaçor B., Özcanlı M., Akar M. A.
5th International Mediterranean Science and Engineering Congress (IMSEC 2020), Antalya, Türkiye, 21 - 23 Ekim 2020, ss.240-244
- XXXVII. **Ultra-high strength steel usage in a sedan car chassis: A theoretical study**
Özcanlı M., Karaçor B., Akar M. A., Serin H.
4th International Symposium the Environment and the Industry, SIMI 2019, Bucuresti, Romanya, 25 - 27 Eylül 2019, ss.56-57
- XXXVIII. **Recycled composite usage for race car wing production: Effect of the surface roughness on aerodynamics**
Akar M. A., Karaçor B., Özcanlı M., Serin H.
4th International Symposium the Environment and the Industry, SIMI 2019, Bucuresti, Romanya, 25 - 27 Eylül 2019, ss.55
- XXXIX. **Investigation of stress and displacement distribution in ultra high strength steel car chassis**
Karaçor B., Özcanlı M.
4th International Mediterranean Science and Engineering Congress (IMSEC 2019), Antalya, Türkiye, 25 - 27 Nisan 2019
- XL. **Comparison of St-52 steel and ultra-high strength steel as a of pipe type chassis material for formula student race car**
Karaçor B., Özcanlı M., Akar M. A., Yıldızhan Ş., Serin H.
4th International Mediterranean Science and Engineering Congress (IMSEC 2019), Antalya, Türkiye, 25 - 27 Nisan 2019, ss.671-674
- XLI. **Cotton/Epoxy Bio-Composite usage as an impact attenuator material for formula student race cars**
ÖZCANLI M., KARAÇOR B., YILDIZHAN Ş., SERİN H.
European Biotechnology Congress, Athens, Yunanistan, 26 - 28 Nisan 2018, cilt.280

Desteklenen Projeler

AKAR M. A., KARAÇOR B., Yükseköğretim Kurumları Destekli Proje, Atık Lastik Granül Tabanlı Kompozit Malzemenin Yarış Aracı Aerodinamik Kanatlarında Kullanımının Araştırılması, 2019 - 2020

ÖZCANLI M., KARAÇOR B., Yükseköğretim Kurumları Destekli Proje, Investigation of Advanced High Strength Steel Usage as Chassis Material in Automotive Industry, 2019 - 2020

Metrikler

Yayın: 63

Atıf (Scopus): 2

H-İndeks (Scopus): 1

Kongre ve Sempozyum Katılımı Faaliyetleri

ANKARA INTERNATIONAL CONGRESS ON SCIENTIFIC RESEARCH-IX, Katılımcı, Ankara, Türkiye, 2023

IV. International Siirt Conference on Scientific Research, Katılımcı, Siirt, Türkiye, 2023

9th International Black Sea Coastline Countries Scientific Research Conference, Katılımcı, Ankara, Türkiye, 2023

4th International Black Sea Modern Scientific Research Congress, Katılımcı, Rize, Türkiye, 2023

3th International Mediterranean Congress, Katılımcı, Mersin, Türkiye, 2023

2nd International Congress on Multidisciplinary Natural Sciences (ICOMNAS 2022), Katılımcı, Ankara, Türkiye, 2022
3. Uluslararası Siirt Bilimsel Araştırmalar Kongresi, Katılımcı, Siirt, Türkiye, 2022
7th International Mediterranean Science and Engineering Congress(IMSEC 2022), Katılımcı, Antalya, Türkiye, 2022
6th International Mediterranean Science and Engineering Congress (IMSEC 2021), Katılımcı, Antalya, Türkiye, 2021
5th International Mediterranean Science and Engineering Congress (IMSEC 2020), Katılımcı, Antalya, Türkiye, 2020
INTERNATIONAL SYMPOSIUM THE ENVIRONMENT AND THE INDUSTRY, Katılımcı, Bucuresti, Romanya, 2019
4th INTERNATIONAL MEDITERRANEAN SCIENCE AND ENGINEERING CONGRESS(IMSEC 2019), Katılımcı, Antalya, Türkiye, 2019
European Biotechnology Congress, Katılımcı, Athens, Yunanistan, 2018