

Res. Asst. AHMET ÇALIK

Personal Information

Email: acalik@cu.edu.tr

International Researcher IDs

ORCID: 0000-0001-7425-4546

Publons / Web Of Science ResearcherID: D-2817-2014

ScopusID: 57190217334

Yoksis Researcher ID: 39646

Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, Turkey 2010 - Continues

Postgraduate, Bülent Ecevit Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği Bölümü, Turkey 2005 - 2008

Undergraduate, Bülent Ecevit Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 2001 - 2005

Dissertations

Postgraduate, Tek Tesirli Yapıştırıcı bağlantılarda gerilme analizi, Bülent Ecevit Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, 2008

Research Areas

Mechanical Engineering, Mechanical, Solid Mechanics, Finite Element Methods, Biomechanics, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Cukurova University, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği Bölümü, 2011 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Estimation of depth-dependent material properties of biphasic soft tissues through finite element optimization and sensitivity analysis**
ÜN M. K., ÇALIK A.
MEDICAL ENGINEERING & PHYSICS, vol.74, pp.73-81, 2019 (SCI-Expanded)
- II. **Artificial intelligence techniques for the vibration, noise, and emission characteristics of a hydrogen-enriched diesel engine**
YILDIRIM S., TOSUN E., ÇALIK A., ULUOCAK İ., AVŞAR E.
ENERGY SOURCES, PART A: RECOVERY, UTILIZATION, ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.41, no.18, pp.2194-2206, 2019 (SCI-Expanded)
- III. **Using HHO (Hydroxy) and hydrogen enriched castor oil biodiesel in compression ignition engine**
ÖZCANLI M., AKAR M. A., Calik A., SERİN H.

- INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.36, pp.23366-23372, 2017 (SCI-Expanded)
- IV. **Evaluation of vibration characteristics of a hydroxyl (HHO) gas generator installed diesel engine fuelled with different diesel-biodiesel blends**
Uludamar E., TOSUN E., Tuccar G., YILDIZHAN Ş., Çalik A., YILDIRIM S., SERİN H., ÖZCANLI M.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.36, pp.23352-23360, 2017 (SCI-Expanded)
- V. **Effect of adherend recessing on bi-adhesively bonded single-lap joints with spew fillet**
Çalik A., YILDIRIM S.
SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, vol.42, no.3, pp.317-325, 2017 (SCI-Expanded)
- VI. **Failure load prediction of single lap adhesive joints using artificial neural networks**
TOSUN E., ÇALIK A.
ALEXANDRIA ENGINEERING JOURNAL, vol.55, no.2, pp.1341-1346, 2016 (SCI-Expanded)
- VII. **Relevance of inhomogeneous-anisotropic models of human cortical bone: a tibia study using the finite element method**
Un K., ÇALIK A.
BIOTECHNOLOGY & BIOTECHNOLOGICAL EQUIPMENT, vol.30, no.3, pp.538-547, 2016 (SCI-Expanded)
- VIII. **An investigation on the effect of parallel slot in bi-adhesive single lap joints with spew fillet**
ÇALIK A., YILDIRIM S.
JOURNAL OF ENGINEERING RESEARCH, vol.3, no.4, pp.95-110, 2015 (SCI-Expanded)

Articles Published in Other Journals

- I. **Effect of Extensometer Usage on Obtaining the Force-Displacement Curve of the Adhesively Single Lap Joint**
ÇALIK A., AKPINAR S.
European Mechanical Science, vol.3, no.4, pp.142-146, 2019 (Peer-Reviewed Journal)
- II. **İnovasyon, İcat, Teknoloji ve Bilim Kavramları Üzerine**
GÜNAY D., ÇALIK A.
Üniversite Araştırmaları Dergisi, 2019 (Peer-Reviewed Journal)
- III. **Hidrojen ile Yakıt Zenginleştirmenin Dizel Motorun Motor Performansı ve Emisyon Özelliklerine Etkisi**
ÇALIK A.
Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.33, no.3, pp.255-262, 2018 (Peer-Reviewed Journal)
- IV. **Pamuk yağı Biyodizelinin motor ses seviyesine olan etkilerinin incelenmesi**
ÇALIK A.
Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.32, no.4, pp.147-152, 2017 (Peer-Reviewed Journal)
- V. **Investigation of Stress and Displacement Distribution in Advanced Steel Rims**
DEDE G., YILDIZHAN Ş., ÖKTEN K., ÇALIK A., ULUDAMAR E., ÖZCANLI M.
International Journal of Automotive Engineering and Technologies, pp.34-37, 2017 (Peer-Reviewed Journal)
- VI. **Fuel properties, performance and emission characterization of waste cooking oil (WCO) in a variable compression ratio (VCR) diesel engine**
YILDIZHAN Ş., ULUDAMAR E., ÇALIK A., DEDE G., ÖZCANLI M.
European Mechanical Science, vol.1, no.2, pp.56-62, 2017 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Influences of Iron Oxide Nanomaterial and Hydrogen Addition into Sunflower Biodiesel/Diesel Powered Diesel Engine Performance and Emissions**

ÖZCANLI M., TOSUN E., ÇALIK A.

5th International Conference on Design and Technologies for Polymeric and Composites Products (POLCOM), Bucharest, Romania, 24 - 27 November 2021, vol.404

- II. **Çekmeye Maruz Köşeleri Yuvarlatılmış Basamaklı Bindirme Bağlantısının Gerilme Analizi**
ÇALIK A., ÖZER H.
3rd International Mediterranean Science and Engineering Congress (IMSEC 2018), 24 - 26 October 2018
- III. **Finite Element Optimization for Estimating Inhomogeneous Material Properties of Biphasic Soft Tissues**
ÇALIK A., ÜN M. K.
9th International Biomechanics Congress, Eskişehir, Turkey, 12 - 22 September 2018, pp.448-451
- IV. **Prediction of in-cylinder pressure in biodiesel-diesel operated diesel engine by use of artificial neural network**
ÇALIK A.
International Conference on Science, Technology, Engineering and Management (ICSTEM), Paris, France, 25 - 26 August 2018
- V. **A Numerical Investigated of Human Femur During Gait and Running**
ÇALIK A.
17th International Eastern Mediterranean Family Medicine Congress, Turkey, 10 - 13 May 2018, pp.1003
- VI. **Bo-composte materials: a review of recent trends, mechanical and chemical properties, and applications**
YILDIZHAN Ş., ÇALIK A., ÖZCANLI M., SERİN H.
2nd International Mediterranean Science and Engineering Congress (IMSEC 2017), 25 - 27 October 2017, pp.198-1198
- VII. **Comparison of diesel fuel atomization characteristics of hydrogen gas and air in a special injection device**
TÜCCAR G., YILDIRIM S., ÇALIK A., ULUDAMAR E., SERİN H., ÖZCANLI M., AYDIN K.
2nd International Mediterranean SCIENCE AND ENGINEERING CONGRESS, 25 - 27 October 2017
- VIII. **İki Yapışkanlı Bindirme Bağlantısının Serbest Titreşim Analizi**
ÇALIK A.
2nd International Mediterranean Science and Engineering Congress (IMSEC 2017), 25 - 27 October 2017, pp.996
- IX. **Comparison of diesel fuel atomization characteristics of hydrogen gas and air in a special injection device**
TÜCCAR G., YILDIRIM S., ÇALIK A., Uludamar E., SERİN H., ÖZCANLI M., AYDIN K.
2nd International Mediterranean Science and Engineering Congress (IMSEC 2017), Adana, Turkey, 25 - 27 October 2017, pp.1321
- X. **Energy and exergy analysis of biodiesel**
ÖZCANLI M., SERİN H., Çalik A., ÇELEBİ K., AKAR M. A.
European Biotechnology Congress, Dubrovnik, Croatia, 25 - 27 May 2017, vol.256
- XI. **Finite Element Optimization for Estimating the Depth-dependent Material Properties of Biphasic Soft Tissue**
ÜN M. K., ÇALIK A.
23 Congress of European Society of Biomechanics, Sevilla, Spain, 2 - 05 July 2017
- XII. **Finite element optimization for estimating depth-dependent material properties of biphasic soft tissues**
ÜN M. K., ÇALIK A.
The 23rd Congress of the European Society of Biomechanics, Sevilla, Spain, 2 - 05 July 2017
- XIII. **Fuel properties, performance and emission characterization of waste cooking oil (WCO) in a variable compression ratio (VCR) diesel engine**
YILDIZHAN Ş., ULUDAMAR E., ÇALIK A., Dede G., ÖZCANLI M.
1st International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Turkey, 26 - 28 October 2016, pp.2658-2665
- XIV. **Investigation of stress and displacement distribution in advanced steel rims**

Dede G., YILDIZHAN Ş., Kökten K., ÇALIK A., ULUDAMAR E., ÖZCANLI M.

1st International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Turkey, 26 - 28 October 2016, pp.2899

XV. Compression ratio effect on performance and emissions of a diesel engine fuelled with plastic oil and diesel fuel

YILDIZHAN Ş., ÇALIK A., ÖZCANLI M., SERİN H.

1st International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Turkey, 26 October - 28 December 2016, pp.2087

XVI. A Numerical Study of Adherend Geometry on the Stress Distribution in Adhesively Lap Joint

ÇALIK A.

International Conference on Natural Science and Engineering (ICNASE'16), Kilis, Turkey, 19 - 20 March 2016, pp.383-388

XVII. Comparison of Isotropic and Inhomogeneous-Anisotropic Models of Cortical Bone: A Tibia Example using the Finite Element Method

ÜN M. K., ÇALIK A.

The 7th Asian Pacific Conference on Biomechanics, Seoul, South Korea, 28 - 31 August 2013, pp.52

Other Publications

I. Preface to the special issue section on ?International Mediterranean Science and Engineering Congress (IMSEC 2017), 25?27 October 2017, Adana, Turkey?

ÖZCANLI M., SERİN H., ÇALIK A.

Other, pp.17969, 2018

Supported Projects

SERİN H., ÖZCANLI M., AKAR M. A., ÇALIK A., Project Supported by Higher Education Institutions, 2st International Mediterranean Science and Engineering Congress IMSEC 2017, 2017 - 2017

ÖZCANLI M., SERİN H., ÇALIK A., AKAR M. A., Project Supported by Higher Education Institutions, 1st International Mediterranean Science and Engineering Congress (IMSEC 2016), 2016 - 2017

Scientific Refereeing

International Academy of Industrial, Mechanical & Aeronautical Engineering, Other journals, November 2015

Journal of Mechanical Science and Technology, SCI Journal, August 2014

Journal of Mechanical Science and Technology, SCI Journal, July 2014

Metrics

Publication: 32

Citation (WoS): 141

Citation (Scopus): 163

H-Index (WoS): 5

H-Index (Scopus): 4

Congress and Symposium Activities

International Conference on Natural Science and Engineering (ICNASE 16), Attendee, Kilis, Turkey, 2016
The 7th Asian Pacific Conference on Biomechanics (APCB2013), Attendee, Seoul, South Korea, 2013
Uluslararası Yükseköğretim Kongresi: Yeni Yönelişler ve Sorunlar (UYK-2011), Attendee, İstanbul, Turkey, 2011
Uluslararası Isıtma, Soğutma, Klima, Havalandırma, Yalıtım, Pompa, Vana, Tesisat, Su Arıtma ve Güneş Enerjisi Sistemleri Fuarı, (ISK-SODEX), Attendee, İstanbul, Turkey, 2008
II.Türk Bilim ve Teknoloji Tarihi Kongresi, TBTK-SDÜ, Süleyman Demirel Üniversitesi, Attendee, Isparta, Turkey, 2006

Awards

ÇALIK A., Yayın Teşvik Ödülü, TÜBİTAK, December 2015

Non Academic Experience

YÜKSEKÖĞRETİM KURULU BAŞKANLIĞI

YÜKSEKÖĞRETİM KURULU BAŞKANLIĞI

Aslan İnşaat Ltd. Şti.