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Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Makina Mühendisliği, Turkey 2018 - 2024

Research Areas

Machine Elements, Machine Design, Fracture Mechanics, Finite Element Methods

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Predicting the tensile stiffness and strength properties of plain woven carbon fiber/epoxy laminates: a practical analytical approach and experimental validations**
Uzay Ç., Çetin A., Geren N., Bayramoğlu M., Tütüncü N.
MECHANICS OF ADVANCED MATERIALS AND STRUCTURES, vol.31, no. 12, pp.2619-2634, 2024 (SCI-Expanded)
- II. **Predicting the indentation load of FRP facesheet / foam core sandwiches**
Çetin A., Uzay Ç., Tütüncü N., Geren N.
Structures, vol.62, 2024 (SCI-Expanded)
- III. **Utilizing almond shell filler to improve strength and sustainability of jute fiber composites**
Çetin A.
Polymer Composites, 2024 (SCI-Expanded)
- IV. **A practical approach to predict the flexural properties of woven plain carbon fiber/epoxy laminates**
Çetin A., Uzay Ç., Geren N., Bayramoğlu M., Tütüncü N.
MECHANICS OF ADVANCED MATERIALS AND STRUCTURES, vol.30, no.9, pp.1801-1811, 2023 (SCI-Expanded)
- V. **Physical and mechanical properties of laminar composites depending on the production methods: an experimental investigation**
Uzay Ç., Çetin A., Geren N.
SADHANA - ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, vol.47, no.4, pp.1-14, 2022 (SCI-Expanded)
- VI. **3D pull-out finite element simulation of the pedicle screw-trabecular bone interface at strain rates**
Çetin A., Bircan D. A.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART H-JOURNAL OF ENGINEERING IN MEDICINE, vol.236, no.1, pp.134-144, 2022 (SCI-Expanded)
- VII. **Experimental investigation of pull-out performance of pedicle screws at different polyurethane (PU) foam densities**

Çetin A., Bircan D. A.

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART H-JOURNAL OF ENGINEERING IN MEDICINE, vol.235, no.6, pp.709-716, 2021 (SCI-Expanded)

VIII. **ASSESSMENT OF CRACK INITIATION AND PROPAGATION IN BONE USING ACOUSTIC EMISSION (AE) TECHNIQUES**

KARADUMAN D., BİRCAN D. A., ÇETİN A.

JOURNAL OF MECHANICS IN MEDICINE AND BIOLOGY, vol.18, no.3, 2018 (SCI-Expanded)

Articles Published in Other Journals

I. **Evaluation of Flexural Stiffness for the Lightweight Polymer Foam Core Sandwich Structures**

UZAY Ç., ACER D. C., GEREN N., ÇETİN A.

International Journal of Mechanical and Production Engineering (IJMPE), vol.6, no.9, pp.36-40, 2018 (Peer-Reviewed Journal)

II. **AKUSTİK EMİSYON (AE) YÖNTEMİNİN BİYOMEDİKAL ALANDA ALTERNATİF BİR METOT OLARAK UYGULANMASI**

Bircan D. A., Karaduman D., Çetin A.

Adıyaman Üniversitesi Mühendislik Bilimleri Dergisi, vol.6, pp.34-41, 2017 (Peer-Reviewed Journal)

III. **Non-Destructive examination of underground pressure vessels using acoustic emission (AE) techniques**

Karaduman D., Bircan D. A., Çetin A.

European Mechanical Science, vol.1, no.1, pp.1-8, 2017 (Peer-Reviewed Journal)

IV. **Pull Out Performance of Medical Screws Used in Orthopaedic Surgeries**

BİRCAN D. A., ÇETİN A.

Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.31, pp.221-228, 2016 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **Finite Element Simulations of Cortical and Trabecular Bone to Assess Constitutive Material Modelling Parameters**

ÇETİN A., BİRCAN D. A., KARADUMAN D.

Third International Congress On Natural And Engineering Sciences, Belgrade, Serbia And Montenegro, 21 - 25 June 2017, pp.12

II. **Significant influence of rating the spur gear design results obtained from iso and agma standards**

Uzay Ç., Geren N., Çetin A.

1st International Mediterranean SCIENCE AND ENGINEERING CONGRESS, Adana, Turkey, 26 - 28 October 2016

III. **Non-Destructive Examination of Underground Pressure Vessels Using Acoustic Emission (AE) Techniques**

KARADUMAN D., BİRCAN D. A., ÇETİN A.

1st International Mediterranean Science And Engineering Congress (IMSEC2016), Adana, Turkey, 26 - 28 October 2016, pp.438

IV. **Pull out performance of medical screws used in orthopaedic surgeries**

BİRCAN D. A., ÇETİN A.

1st International Mediterranean Science And Engineering Congress (IMSEC2016), Adana, Turkey, 26 - 28 October 2016, pp.318

V. **Biomedical Considerations in Fracture Fixation Using Orthopaedic Implants**

BİRCAN D. A., ÇETİN A., KARADUMAN D.

International Conference on Advanced Technology & Sciences (ICAT'16), Konya, Turkey, 1 - 03 September 2016, pp.33-41

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