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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

Patent

Geren N., Bayramođlu M., Özkan G. M., Uzay Ç., Çetin A., Acer D. C., Diker İ., İbekci M. B., COMPOSITE BATTERY ENCLOSURE WITH THERMAL MANAGEMENT AND SELF-HEALING (REPAIRING) FEATURES, Patent, CHAPTER H Electricity, The Invention Registration Number: PCT/TR2024/050272 , Standard Registration, 2024

Geren N., Bayramođlu M., Özkan G. M., Uzay Ç., Çetin A., Acer D. C., Diker İ., İbekci M. B., Termal Yönetim Ve Kendini İyileştirme (Tamir Etme) Özellikli Kompozit Batarya Muhafaza Kutusu, Patent, CHAPTER H Electricity, The Invention Registration Number: 2024/002940 , Standard Registration, 2024

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