

Assoc. Prof. MEHMET BULUT



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International Researcher IDs

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Publons / Web Of Science ResearcherID: I-2318-2019

ScopusID: 56682206200

Dissertations

Doctorate, Investigation of impact behavior of laminated hybrid composite plates, Gaziantep University, fen , 2017

Postgraduate, Free vibration of laminated hybrid composite plates, Gaziantep University, 2013

Research Areas

Engineering and Technology

Academic Titles / Tasks

Associate Professor, Sivas Cumhuriyet University, Sivas Teknik Bilimler Meslek Yüksekokulu, Makine ve Metal Teknolojileri, 2024 - Continues

Academic and Administrative Experience

Head of Department, Hakkari University, Mühendislik Fakültesi, Makine Mühendisliği, 2017 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation of thermal energy storage capacities of phase change material embedded different bio-based materials converted into biochar**
Coşkun B., Temel Ü. N., Bulut M.
PHYSICA SCRIPTA, vol.100, no.3, pp.35001-35007, 2025 (SCI-Expanded)
- II. **Graphene nanoplatelets inclusion effects on mechanical properties of hybrid carbon/glass composites**
Erkliğ A., Bulut M., Al-Ogaidi B. R. Y.
IRANIAN POLYMER JOURNAL (ENGLISH EDITION), vol.34, no.2, pp.1-18, 2025 (SCI-Expanded)
- III. **Graphene nanoplatelets inclusion effects on mechanical properties of the hybrid kevlar/basalt fiber reinforced epoxy composites**
Abdo A. R., Bulut M., Sulaiman B. H., Bozkurt Ö. Y., Erkliğ A.
Physica Scripta, vol.100, no.1, pp.15009-150018, 2025 (SCI-Expanded)

- IV. **Numerical thermo-mechanical analysis of a railway train wheel**
Bulut M., Karagöz N., Ibrahim Acar H. İ., DUMAN N.
Materialpruefung/Materials Testing, vol.65, no.5, pp.733-742, 2023 (SCI-Expanded)
- V. **Vibration damping properties of graphene nanoplatelets filled glass/carbon fiber hybrid composites**
Erkliğ A., Younus B., Doğan N. F., Alsaadi M., BULUT M., Sulaiman B. H.
International Polymer Processing, vol.38, no.2, pp.145-153, 2023 (SCI-Expanded)
- VI. **Effect of olive pomace particles content on mode I and mode II delamination fracture of S-glass fiber reinforced composites**
BULUT M., Alsaadi M., Erkliğ A.
Polymer Composites, vol.43, no.2, pp.1157-1167, 2022 (SCI-Expanded)
- VII. **Effect of nano clay particle inclusion on axial and lateral buckling characteristics of basalt fiber reinforced composites Nano kil parçacık ilavesinin bazalt fiber takviyeli kompozit plakaların aksenel ve yan burkulma özelliklerine etkisi**
BULUT M., Özbek Ö., Bozkurt Ö. Y., Erkliğ A.
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.37, no.4, pp.1985-1995, 2022 (SCI-Expanded)
- VIII. **Effect of graphene nano-platelets on mechanical and impact characteristics of carbon/Kevlar reinforced epoxy hybrid nanocomposites**
Alsaadi M., Younus B., Erklig A., BULUT M., Bozkurt O., Sulaiman B.
Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, vol.235, no.23, pp.7139-7151, 2021 (SCI-Expanded)
- IX. **An experimental investigation on dynamic and mechanical characterization of olive pomace-filled glass/epoxy composite laminates**
Erkliğ A., BULUT M., Shihan A.
Journal of the Brazilian Society of Mechanical Sciences and Engineering, vol.42, no.10, 2020 (SCI-Expanded)
- X. **Low-Velocity Impact Tests on Basalt Fiber/Polypropylene Core Honeycomb Sandwich Composites**
BULUT M.
Mechanics of Composite Materials, vol.56, no.1, pp.121-130, 2020 (SCI-Expanded)
- XI. **Mechanical and Dynamic Properties of Basalt Fiber-Reinforced Composites with Nanoclay Particles**
BULUT M., Bozkurt Ö. Y., Erkliğ A., Yaykaşlı H., Özbek Ö.
Arabian Journal for Science and Engineering, vol.45, no.2, pp.1017-1033, 2020 (SCI-Expanded)
- XII. **A comparative study on the interlaminar shear strength of S-glass/epoxy composites containing borax, perlite and sewage sludge ash particles**
BULUT M., Alsaadi M., Erkliğ A.
Materials Research Express, vol.6, no.9, 2019 (SCI-Expanded)
- XIII. **Mechanical and low velocity impact characterization of carbon/glass hybrid composites with graphene nanoplatelets**
Doğan N. F., BULUT M., Erkliğ A., Bozkurt O. Y.
Materials Research Express, vol.6, no.8, 2019 (SCI-Expanded)
- XIV. **The effects of S-glass fiber hybridization on vibration-damping behavior of intraply woven carbon/aramid hybrid composites for different lay-up configurations**
BULUT M., Alsaadi M., Erkliğ A., Alrawi H.
Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, vol.233, no.9, pp.3220-3231, 2019 (SCI-Expanded)
- XV. **Axial and lateral buckling analysis of fiber reinforced S-glass/epoxy composites containing nano-clay particles**
Bozkurt Ö. Y., BULUT M., Erkliğ A., Faydh W. A.
Composites Part B: Engineering, vol.158, pp.82-91, 2019 (SCI-Expanded)
- XVI. **Vibration-damping characterization of the basalt/epoxy composite laminates containing graphene nanopellets**
BULUT M., Erklig A., Kanmaz P.

- Science and Engineering of Composite Materials, vol.26, no.1, pp.147-153, 2019 (SCI-Expanded)
- XVII. **Nano-silica inclusion effects on mechanical and dynamic behavior of fiber reinforced carbon/Kevlar with epoxy resin hybrid composites**
Alsaadi M., BULUT M., Erkliğ A., Jabbar A.
Composites Part B: Engineering, vol.152, pp.169-179, 2018 (SCI-Expanded)
- XVIII. **An experimental investigation on damage characteristics of laminated hybrid composites subjected to low velocity impact**
BULUT M., Erkliğ A.
Polymer Composites, vol.39, no.9, pp.3129-3139, 2018 (SCI-Expanded)
- XIX. **Mixed-mode I/III fracture toughness of polymer matrix composites toughened with waste particles**
Alsaadi M., Erkliğ A., BULUT M.
Science and Engineering of Composite Materials, vol.25, no.4, pp.679-687, 2018 (SCI-Expanded)
- XX. **Tensile and impact characterization of S-glass/epoxy composite laminates containing microscale borax, perlite, and sewage sludge ash particles**
BULUT M., Alsaadi M., Erkliğ A.
Journal of the Brazilian Society of Mechanical Sciences and Engineering, vol.40, no.4, 2018 (SCI-Expanded)
- XXI. **Toughening Effect of Microscale Particles on the Tensile and Vibration Properties of S-Glass-Fiber-Reinforced Epoxy Composites**
Erkliğ A., BULUT M., Fayzulla B.
Mechanics of Composite Materials, vol.54, no.1, pp.119-128, 2018 (SCI-Expanded)
- XXII. **The investigation of quasi-static indentation effect on laminated hybrid composite plates**
BULUT M., Erkliğ A.
Mechanics of Materials, vol.117, pp.225-234, 2018 (SCI-Expanded)
- XXIII. **A comparative study on the tensile and impact properties of Kevlar, carbon, and S-glass/epoxy composites reinforced with SiC particles**
BULUT M., Alsaadi M., Erkliğ A.
Materials Research Express, vol.5, no.2, 2018 (SCI-Expanded)
- XXIV. **Hybridization effects on charpy impact behavior of basalt/aramid fiber reinforced hybrid composite laminates**
Bozkurt Ö. Y., Erkliğ A., BULUT M.
Polymer Composites, vol.39, no.2, pp.467-475, 2018 (SCI-Expanded)
- XXV. **Mechanical characterization of Basalt/epoxy composite laminates containing graphene nanopellets**
BULUT M.
Composites Part B: Engineering, vol.122, pp.71-78, 2017 (SCI-Expanded)
- XXVI. **On adhesive properties of perlite and sewage sludge ash with epoxy resin bonded single-strap repairs**
BULUT M., Erkliğ A., Doğan N. F.
Materials Research Express, vol.4, no.8, 2017 (SCI-Expanded)
- XXVII. **Effects of stacking sequence on mechanical properties of hybrid composites reinforced with carbon, Kevlar and S-glass fibers**
BULUT M., Erkliğ A., Alsaadi M., Kchany S.
Materialprüfung/Materials Testing, vol.59, no.5, pp.472-479, 2017 (SCI-Expanded)
- XXVIII. **Experimental investigation on tensile and Charpy impact behavior of Kevlar/S-glass/epoxy hybrid composite laminates**
Erkliğ A., BULUT M.
Journal of Polymer Engineering, vol.37, no.2, pp.177-184, 2017 (SCI-Expanded)
- XXIX. **Hybridization effects on quasi-static penetration resistance in fiber reinforced hybrid composite laminates**
BULUT M., Erkliğ A., Yeter E.
Composites Part B: Engineering, vol.98, pp.9-22, 2016 (SCI-Expanded)
- XXX. **Hybridization effects on lateral buckling behavior of laminated composite beams**

- Yeter E., Erkliğ A., BULUT M.
Polymer Composites, vol.37, no.8, pp.2511-2521, 2016 (SCI-Expanded)
- XXXI. **Experimental investigation on influence of Kevlar fiber hybridization on tensile and damping response of Kevlar/glass/epoxy resin composite laminates**
BULUT M., Erkliğ A., Yeter E.
Journal of Composite Materials, vol.50, no.14, pp.1875-1886, 2016 (SCI-Expanded)
- XXXII. **Damping and vibration characteristics of basalt-aramid/epoxy hybrid composite laminates**
BULUT M., Bozkurt Ö. Y., Erkliğ A.
Journal of Polymer Engineering, vol.36, no.2, pp.173-180, 2016 (SCI-Expanded)
- XXXIII. **The effect of hybridization and boundary conditions on damping and free vibration of composite plates**
Erkliğ A., BULUT M., Yeter E.
Science and Engineering of Composite Materials, vol.22, no.5, pp.565-571, 2015 (SCI-Expanded)
- XXXIV. **Natural frequency response of laminated hybrid composite beams with and without cutouts**
Erkliğ A., BULUT M., Yeter E.
Journal of Polymer Engineering, vol.34, no.9, pp.851-857, 2014 (SCI-Expanded)
- XXXV. **Hybridization effects on the buckling behavior of laminated composite plates**
Yeter E., Erkliğ A., BULUT M.
Composite Structures, vol.118, no.1, pp.19-27, 2014 (SCI-Expanded)
- XXXVI. **The effects of cut-outs on lateral buckling behavior of laminated composite beams**
Erkliğ A., Yeter E., BULUT M.
Composite Structures, vol.104, pp.54-59, 2013 (SCI-Expanded)
- XXXVII. **Effects of cutouts on natural frequency of laminated composite plates**
Erkliğ A., BULUT M., Yeter E.
Science and Engineering of Composite Materials, vol.20, no.2, pp.179-185, 2013 (SCI-Expanded)

Articles Published in Other Journals

- I. **Stress and deformation analysis of a connecting rod by using ANSYS**
BULUT M., CİHAN Ö.
International Journal of Automotive Engineering and Technologies, 2020 (Peer-Reviewed Journal)
- II. **CFD Analysis of Exhaust Manifold for Different Designs**
CİHAN Ö., BULUT M.
European Mechanical Science, vol.3, no.4, pp.147-152, 2019 (Peer-Reviewed Journal)
- III. **Torsional behavior of thin section glass fiber/epoxy composite filament wound tubes: Numerical modelling**
BULUT M.
European Mechanical Science, vol.3, no.2, pp.52-55, 2019 (Peer-Reviewed Journal)
- IV. **A numerical investigation on vibration analysis of fiber reinforced and truncated conical hollow shells with different fiber orientations**
BULUT M.
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.8, pp.259-269, 2018 (Peer-Reviewed Journal)
- V. **Vibration analysis of carbon and Kevlar fiber reinforced composites containing SiC particles**
BULUT M.
SAKARYA UNIVERSITY JOURNAL OF SCIENCE, vol.22, no.5, pp.1423-1431, 2018 (Peer-Reviewed Journal)
- VI. **Charpy Impact Response of Glass Fiber Reinforced Composite with Nano Graphene Enhanced Epoxy**
ERKLİĞ A., DOĞAN N. F., BULUT M.
Periodicals of Engineering and Natural Sciences, vol.5, no.3, 2017 (Scopus)
- VII. **The Influence of Fiber Orientation Angle on Damping and Vibration Properties of Basalt Fiber Reinforced Composite Laminates**

BOZKURT Ö. Y., ÖZBEK Ö., BULUT M.

Journal of Civil, Structural and Transportation Engineering (JCSTE), vol.2, pp.12-16, 2016 (Peer-Reviewed Journal)

VIII. **Yapıştırma ile Birleştirilmiş Cam Elyaf Takviyeli Kompozit Tabakaların Sönümlenme ve Titreşim Davranışları**

BOZKURT Ö. Y., ÖZBEK Ö., BULUT M.

Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.31, no.ÖS1, pp.61-68, 2016 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Investigation of natural frequency using Ansys in a connecting rod**
CİHAN Ö., BULUT M.
4. International Conference on Material Science and Technology in Kızılcahamam/ANKARA(IMSTEC), Ankara, Turkey, 18 - 20 October 2019, pp.455-457
- II. **Static stress and deformation analysis of a connecting rod by using Ansys**
BULUT M., CİHAN Ö.
4. International Conference on Material Science and Technology in Kızılcahamam/ANKARA(IMSTEC), Ankara, Turkey, 18 - 20 October 2019, pp.446-450
- III. **KEVLAR VE KARBON FİBER İLE GÜÇLENDİRİLMİŞ HİBRİT KOMPOZİTLERİN TİTREŞİM ÖZELLİKLERİNİN DENEYSEL MODAL ANALİZ VE SONLU ELEMANLAR KULLANARAK BELİRLENMESİ**
BULUT M.
III. ULUSLARARASI MESLEKİ VE TEKNİK BİLİMLER KONGRESİ, 21 - 22 June 2018
- IV. **Torsional behaviour of thin section glass fiber/epoxy composite filament wound tubes: Numerical modelling**
BULUT M.
1st International Conference on Materials Engineering Science, 8 - 09 August 2018
- V. **Vibration Properties of Intraply Woven Carbon/Aramid Fiber Reinforced Composites with Nano Clay Particles**
ERKLİĞ A., BULUT M., DOĞAN N. F.
ICAIE 2017- International Conference on Advances and Innovations in Engineering, 10 - 12 May 2017
- VI. **Impact Performance of Intraply-Woven Carbon/Aramid Hybrid Composites with Nano-Clay Particles**
BULUT M., ERKLİĞ A., BOZKURT Ö. Y.
ICAIE 2017- International Conference on Advances and Innovations in Engineering, 10 - 12 May 2017
- VII. **İç İçe Dokunmuş Karbon/Aramid ve Epoksi Kompozitlerin Darbe Davranışına Hibritleşmenin Etkileri**
BOZKURT Ö. Y., ERKLİĞ A., BULUT M.
2.ULUSLARARASI SAVUNMA SANAYİ SEMPOZYUMU2017 ONUR KURULU, 6 - 08 April 2017
- VIII. **Nano Silika Katkısının İç İçe Dokunmuş Karbon/Aramid Hibrit Fiber Takviyeli Kompozitlerin Düşük Hızlı Darbe Davranışına Etkileri**
BOZKURT Ö. Y., ERKLİĞ A., BULUT M.
2.ULUSLARARASI SAVUNMA SANAYİ SEMPOZYUMU2017 ONUR KURULU, 6 - 08 April 2017
- IX. **Charpy Impact Response of Glass Fiber Reinforced Composite with Nano Graphene Enhanced Epoxy Resin**
ERKLİĞ A., DOĞAN N. F., BULUT M.
3rd INTERNATIONAL CONFERENCE ONENGINEERING AND NATURAL SCIENCES, 3 - 07 May 2017
- X. **On the Vibration Behavior of Intraply Woven Carbon/Kevlar Reinforced Composites with Nano Silica Particle**
ERKLİĞ A., DOĞAN N. F., BULUT M.
3rd INTERNATIONAL CONFERENCE ONENGINEERING AND NATURAL SCIENCES, 3 - 07 May 2017
- XI. **KEVLAR VE S CAMI İLE GÜÇLENDİRİLMİŞ HİBRİT KOMPOZİTLERİN TİTREŞİM ÖZELLİKLERİNİN BELİRLENMESİ**

- BULUT M., ERKLİĞ A., EYÜP Y.
XIX. ULUSAL MEKANİK KONGRESİ, Trabzon, Turkey, 24 - 28 August 2015
- XII. **TABAKALI KOMPOZİT PLAKALARIN YARI STATİK PENETRASYON YÜKLERİ ALTINDAKİ DAVRANIŞLARININ ARAŞTIRILMASI**
BULUT M., MERVE Ş., ERKLİĞ A., YURTCU N., DAŞTAN T.
XIX. ULUSAL MEKANİK KONGRESİ, Trabzon, Turkey, 24 - 28 August 2015
- XIII. **Influence of perlite particle inclusion with adhesively bonded single strap repairs on tensile properties of S-glass/epoxy composite laminates**
ERKLİĞ A., BULUT M.
3rd International Conference on Advanced Technology Sciences (ICAT 2016), 1 - 03 September 2016
- XIV. **The effect of micro particle reinforced adhesive on tensile strength of double lap joints**
ERKLİĞ A., Al Ani Y. J., BULUT M., kütük M. A.
2nd International Conference on Engineering and Natural Sciences (ICENS 2016), 24 - 28 May 2016
- XV. **The Influence of Borax Filler Addition on Damping and Vibration Response of S glass epoxy Composite Laminates**
ERKLİĞ A., BULUT M.
International congress on Civil, Structural, and Environmental Engineering, 30 - 31 March 2016
- XVI. **Effect of Fibre Orientations on Damping and Vibration Characteristics of Basalt Epoxy Composite Laminates**
BOZKURT Ö. Y., BULUT M., ÖZBEK Ö.
International congress on Civil, Structural, and Environmental Engineering, 30 - 31 March 2016
- XVII. **Tek tesirli yapıştırma bağlantılarında epoksi yapıştırıcı içerisindeki mikro boyuttaki perlitin hasar yüküne etkileri**
ERKLİĞ A., BULUT M.
International Conference on Welding Technologies and Exhibition (ICWET'xx16), 11 - 13 May 2016
- XVIII. **Damping and Vibration Behavior of Adhesively Bonded Composite Laminates**
BOZKURT Ö. Y., ÖZBEK Ö., BULUT M.
International Conference on Welding Technologies and Exhibition (ICWET 16), 11 - 13 May 2016
- XIX. **Free Vibration of Composite Plates With Cut outs**
BULUT M., ERKLİĞ A., KARACALI T., ÇAVUŞOĞLU B., ORAL E. A., ÖZBEK İ. Y.
2nd International Conference on Computation for Science and Technology, 16 - 18 September 2012

Supported Projects

Bozkurt Ö. Y., Erkliğ A., TUBITAK Project, Elyaf Sarma İşleminde Üretim Hızını Ve Esnekliğini Artırmaya Yönelik Yeni Bir Yöntem Uygulaması, 2015 - 2018

Bulut M., Project Supported by Higher Education Institutions, Tabakalı hibrit kompozitlerin darbe davranışlarının araştırılması, 2014 - 2016

Metrics

Publication: 64

Citation (Scopus): 959

H-Index (Scopus): 18