

Lect. PhD MUSTAFA ALBAYRAK

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Firat University, Faculty Of Engineering, Department Of Mechanical Engineering, Turkey 2016 - 2022

Postgraduate, Firat University, Faculty Of Engineering, Department Of Mechanical Engineering, Turkey 2010 - 2013

Undergraduate, Firat University, Faculty Of Engineering, Department Of Mechanical Engineering, Turkey 2006 - 2010

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Eğri yüzeylere sahip kauçuk takviyeli kompozitlerin darbe davranışlarının araştırılması, Firat University, Science, Mechanical engineering, 2022

Postgraduate, Tabakalı Kompozit Levhalarda Düşük Hızlı Darbe Etkisinin Sayısal Analizi, Firat University, Faculty Of Engineering, Department Of Mechanical Engineering, 2013

Research Areas

Engineering and Technology

Courses

Mesleki Yabancı Dil, Associate Degree, 2018-2019

Teknik Resim, Associate Degree, 2018-2019

Ölçme ve Kontrol, Associate Degree, 2018-2019

Malzeme Teknolojisi, Associate Degree, 2018-2019

Endüstriyel elektrik bilgisi, Associate Degree, 2018-2019

Bilgisayar Destekli Tasarım 1 (CAD), Associate Degree, 2018-2019

Tamir Bakım Kaynağı, Associate Degree, 2018-2019

Temel Elektrik ve Elektronik, Associate Degree, 2018-2019

Birleştirme Teknolojisi, Associate Degree, 2013-2014

Statik ve Mukavemet, Associate Degree, 2013-2014

Demirdışı metallerin üretimi, Associate Degree, 2013-2014
Metalurjiye Giriş , Associate Degree, 2013-2014
Bilgisayar Destekli Tasarım , Associate Degree, 2013-2014
Mekanik Metalurji 1, Associate Degree, 2013-2014
Polimerik Malzemeler, Associate Degree, 2013-2014
Seramik malzemeler, Associate Degree, 2013-2014
Döküm Prensipleri Ve Teknolojileri, Associate Degree, 2013-2014
Matematik 2, Associate Degree, 2013-2014
Korozyon, Associate Degree, 2013-2014
ingilizce 2, Associate Degree, 2013-2014
Mekanik Metalurji 2, Associate Degree, 2013-2014
Klavye teknikleri, Associate Degree, 2013-2014
İşletme Yönetimi ve İmalat Teknolojileri, Associate Degree, 2013-2014
Kompozit Malzemeler, Associate Degree, 2013-2014
Sistem Analizi, Associate Degree, 2013-2014

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Low-velocity impact behaviours of sandwiches manufactured from fully carbon fiber composite for different cell types and compression behaviours for different core types**
Bozkurt I., Kaman M. O., Albayrak M.
MATERIALPRUEFUNG/MATERIALS TESTING, vol.65, no.9, pp.1349-1372, 2023 (SCI-Expanded)
- II. **Investigation of the mechanical response of laminated composites reinforced with different type wire mesh**
Alev K. I., Kaman M. O., Albayrak M., Yanen C.
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.45, no.9, pp.475, 2023 (SCI-Expanded)
- III. **The effect of lamina configuration on low-velocity impact behaviour for glass fiber/rubber curved composites**
Albayrak M., Kaman M. O., Bozkurt I.
JOURNAL OF COMPOSITE MATERIALS, vol.57, no.11, pp.1875-1908, 2023 (SCI-Expanded)
- IV. **Experimental and Numerical Investigation of the Geometrical Effect on Low Velocity Impact Behavior for Curved Composites with a Rubber Interlayer**
Albayrak M., Kaman M. O., Özer N.
APPLIED COMPOSITE MATERIALS, vol.30, no.2, pp.1-2, 2023 (SCI-Expanded)
- V. **Effect of nonlinear material behavior on progressive failure analysis of pin-joint composites**
Cayir S., Kaman M. O., Albayrak M.
MECHANICS BASED DESIGN OF STRUCTURES AND MACHINES, vol.45, no.9, pp.120-123, 2023 (SCI-Expanded)

Articles Published in Other Journals

- I. **Numerical Investigation of the Effect of Deltoid Radius on Tensile Load in T-joints**
albayrak m.
Firat University journal of experimental and computational engineering (Online), vol.3, no.2, pp.216-226, 2024 (Peer-Reviewed Journal)
- II. **Experimental and numerical determination of interlayer shear strength of glass fiber-reinforced epoxy composites**
ALBAYRAK M., AŞAN A. M., KAMAN M. O., BOZKURT İ.
Journal of Structural Engineering & Applied Mechanics (Online), vol.5, no.4, pp.289-299, 2022 (Peer-Reviewed)

Journal)

- III. **Effect of repair parameters on composite plates under low velocity impact**
ALBAYRAK M., GÜR M., KAMAN M. O.
European Mechanical Science, vol.6, pp.58-67, 2022 (Peer-Reviewed Journal)
- IV. **Production of Curved Surface Composites Reinforced with Rubber Layer**
ALBAYRAK M., KAMAN M. O.
European Journal of Technique, vol.11, no.1, pp.19-22, 2021 (Peer-Reviewed Journal)
- V. **Charpy darbe testinin deneysel ve sayısal analizi**
ALBAYRAK M., KAMAN M. O.
Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, vol.10, no.3, pp.945-957, 2019 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Meso-Mechanic Analysis of Laminated Composites Reinforced with Aluminum Mesh**
İŞGÖR ALEV K., KAMAN M. O., YANEN C., ALBAYRAK M.
INTERNATIONAL CONFERENCE ON ADVANCES AND INNOVATIONS IN ENGINEERING, Malatya, Turkey, 21 - 23 September 2023, pp.420-425
- II. **100Cr6 ÇELİĞİNİN TEĞETSEL SİLİNDİRİK TAŞLAMA YÖNTEMİ İLE İŞLENMESİNDE YÜZEY PÜRÜZLÜĞÜNÜN ARAŞTIRILMASI**
BALLIKAYA H., ALBAYRAK M.
2. ULUSLARARASI MALZEME MÜHENDİSLİĞİ VE İLERİ İMALAT TEKNOLOJİLERİ KONGRESİ (IMEAMTC'23), İstanbul, Turkey, 12 - 13 January 2023, pp.47-53
- III. **Determination of LS-DYNA MAT162 Material Input Parameters for Low Velocity Impact Analysis of Layered Composites**
ALBAYRAK M., KAMAN M. O., BOZKURT İ.
International Conference on Mechanics of Fatigue and Fracture February 17-18, 2022 in Paris, France, Paris, France, 17 February 2022, vol.17, pp.39-43
- IV. **LS-DYNA MAT162 Finding Material Inputs and Investigation of Impact Damage in Carbon Composite Plates. In Conference Proceedings, Paris France February**
ALBAYRAK M., KAMAN M. O., BOZKURT İ.
Mechanics of Fatigue and Fracture, February 17-18, 2022 - France, Paris, Paris, France, 17 February 2022, vol.17, pp.44-46
- V. **LOW VELOCITY IMPACT BEHAVIOR OF ALUMINUM SANDWICH PLATES HAVING RUBBER CORE**
ALBAYRAK M., KAMAN M. O.
4nd International Conference on Material Science and Technology in Kızılcahamam (IMSTEC'19), October 18-20, 2019, Ankara/TURKEY, Ankara, Turkey, 18 - 20 October 2019
- VI. **NUMERICAL ANALYSIS OF HYPER ELASTIC RUBBER PLATES UNDER LOW VELOCITY IMPACT LOADING**
ALBAYRAK M., KAMAN M. O.
Internatınonal Conference on Materials Science Mechanical and Automation Engineerings and Technology, 21 - 23 June 2019

Metrics

Publication: 16