

Prof. YUSUF ARMAN

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International Researcher IDs

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Publons / Web Of Science ResearcherID: P-9051-2019

ScopusID: 14521970400

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Education Information

2003 - 2008	Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Mekanik (Dr), Turkey
2000 - 2003	Postgraduate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Mekanik (YI) (Tezli), Turkey
1995 - 1999	Undergraduate, Dokuz Eylul University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey

Foreign Languages

English, B2 Upper Intermediate

Dissertations

2008	Optimization of human tooth crown in terms of stresses occurred after firing process, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Mekanik (Dr), Doctorate
2003	Circular delamination effects on buckling behaviour of the laminated composite plates with circular hole, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Mekanik (YI) (Tezli), Postgraduate

Research Areas

Solid Mechanics, Finite Element Methods, Biomechanics, Mechanical Testing

Academic Titles / Tasks

2019 - Continues	Professor, Dokuz Eylul University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü
2014 - 2019	Associate Professor, Dokuz Eylul University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü
2012 - 2014	Assistant Professor, Dokuz Eylul University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü
2008 - 2012	Research Assistant PhD, Dokuz Eylul University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü
2001 - 2008	Research Assistant, Dokuz Eylul University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü

Academic and Administrative Experience

2019 - 2023	Head of Department, Dokuz Eylul University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü
2021 - 2022	Director of the Center, Dokuz Eylul University, Rektörlük, Bioizmir Uluslararası Sağlık Teknolojileri Geliştirici ve Hızlandırıcı Uygulama ve Araştırma Merkezi
2016 - 2019	Deputy Head of Department, Dokuz Eylul University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü
2013 - 2016	Deputy Head of Department, Dokuz Eylul University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü

Courses

2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013	SEMINAR, Postgraduate
2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012	THESIS, Postgraduate
2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018	THESIS, Doctorate

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation failure behaviours of notched composite plates repaired with using adhesive and patch**
Çelik A., Turan K., ARMAN Y.
Mechanics of Advanced Materials and Structures, 2024 (SCI-Expanded)
- II. **Investigation of patch application failure behaviors according to fiber orientation difference at notched composite plates**
Celik A., Turan K., ARMAN Y.
Mechanics of Advanced Materials and Structures, 2024 (SCI-Expanded)
- III. **Effect of impactor nose form on the impact behavior of reinforced composite materials**
Dogan S., ARMAN Y., DOĞAN A.
MATERIALS TESTING, vol.65, no.8, pp.1254-1262, 2023 (SCI-Expanded)
- IV. **Investigation of effective coating of the Ti-6Al-4V alloy and 316L stainless steel with graphene or carbon nanotubes with finite element methods**
TÜMER D., Gungorurler M., HAVITÇIOĞLU H., ARMAN Y.
JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, vol.9, no.6, pp.15880-15893, 2020 (SCI-Expanded)

- V. **Experimental study on spall behavior of single and multi-plate composites behind armor subjected to shaped charge**
Toksoy A. K., ARIKAN V., KARAKUZU R., ARMAN Y., GÖREN A.
JOURNAL OF COMPOSITE MATERIALS, vol.54, no.24, pp.3491-3499, 2020 (SCI-Expanded)
- VI. **The effect of hygrothermal aging and UV radiation on the low-velocity impact behavior of the glass fiber-reinforced epoxy composites**
Dogan A., ARMAN Y.
IRANIAN POLYMER JOURNAL, vol.28, no.3, pp.193-201, 2019 (SCI-Expanded)
- VII. **Experimental investigation of transverse loading on composite panels coated with different gelcoat colors subjected to UV radiation and hygrothermal aging**
Dogan A., ARMAN Y., ÖZDEMİR O.
MATERIALS RESEARCH EXPRESS, vol.6, no.2, 2019 (SCI-Expanded)
- VIII. **Effects of temperature and impactor nose diameter on the impact behavior of PA6 and PP thermoplastic composites**
Dogan A., ARMAN Y.
JOURNAL OF ELASTOMERS AND PLASTICS, vol.51, no.1, pp.64-74, 2019 (SCI-Expanded)
- IX. **The effect of delamination size and location to buckling behavior of composite materials**
Ipek G., ARMAN Y., Celik A.
COMPOSITES PART B-ENGINEERING, vol.155, pp.69-76, 2018 (SCI-Expanded)
- X. **The Effect of Hygrothermal Aging on the Glass and Carbon Reinforced Epoxy Composites for Different Stacking Sequences**
Dogan A., ARMAN Y.
MECHANIKA, vol.24, no.1, pp.19-25, 2018 (SCI-Expanded)
- XI. **Numerical investigation of residual stresses in high temperature ZrO₂ insulation coatings on Ag tape substrate for magnet technologies**
ARMAN Y., ÖZGÜL M., Celik E.
JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY, vol.53, no.2, pp.855-861, 2017 (SCI-Expanded)
- XII. **An experimental and numerical investigation on low velocity impact behavior of composite plates**
Berk B., KARAKUZU R., Icten B. M., Arikan V., ARMAN Y., Atas C., GÖREN A.
JOURNAL OF COMPOSITE MATERIALS, vol.50, no.25, pp.3551-3559, 2016 (SCI-Expanded)
- XIII. **The effects of repeated transverse impact load on the burst pressure of composite pressure vessel**
Demir I., Sayman O., Dogan A., Arikan V., ARMAN Y.
COMPOSITES PART B-ENGINEERING, vol.68, pp.121-125, 2015 (SCI-Expanded)
- XIV. **Effect of interface crack on lateral buckling behavior and free vibration response of a sandwich composite beam**
TOYGAR E. M., KIRAL Z., Sayman O., ARMAN Y., Ozen M.
JOURNAL OF COMPOSITE MATERIALS, vol.47, no.15, pp.1843-1851, 2013 (SCI-Expanded)
- XV. **EFFECT OF WASHER TYPE ON BEARING STRENGTH OF BOLTED-JOINT LAMINATED COMPOSITES**
ARMAN Y.
ADVANCED COMPOSITES LETTERS, vol.21, no.6, pp.145-151, 2012 (SCI-Expanded)
- XVI. **THE EFFECT OF STACKING SEQUENCE AND TEMPERATURE ON THE MECHANICAL AND LOW VELOCITY IMPACT RESPONSE OF GLASS/EPDXY LAMINATES**
Benli S., Sayman O., ARMAN Y.
ADVANCED COMPOSITES LETTERS, vol.19, no.4, pp.146-154, 2010 (SCI-Expanded)
- XVII. **The effect of stacking sequence and temperature on the mechanical and low velocity impact response of glass/epoxy laminates**
Benli S., Sayman O., ARMAN Y.
Advanced Composites Letters, vol.19, no.4, pp.146-154, 2010 (SCI-Expanded)
- XVIII. **Elastic-plastic finite elements analysis of transient and residual stresses in ceramo-metal restorations**
ARMAN Y., ZOR M., GÜNGÖR M. A., Akan E., Aksoy S.

- JOURNAL OF BIOMECHANICS, vol.42, no.13, pp.2104-2110, 2009 (SCI-Expanded)
- XIX. **Evaluating the bond strength of opaque material on porcelain fused to metal restorations (PFM) alloys by scratch test method**
Culha O., Zor M., GÜNGÖR M. A., ARMAN Y., Toparli M.
MATERIALS & DESIGN, vol.30, no.8, pp.3225-3228, 2009 (SCI-Expanded)
- XX. **Compression-after impact behavior of laminated composite plates subjected to low velocity impact in high temperatures**
AKTAŞ M., KARAKUZU R., ARMAN Y.
COMPOSITE STRUCTURES, vol.89, no.1, pp.77-82, 2009 (SCI-Expanded)
- XXI. **Thermal stress analysis of Wc-Co/Cr-Ni multilayer coatings on 316L steel substrate during cooling process**
Sayman O., Sen F., Celik E., ARMAN Y.
MATERIALS & DESIGN, vol.30, no.3, pp.770-774, 2009 (SCI-Expanded)
- XXII. **Hole effects on lateral buckling of laminated cantilever beams**
Eryigit E., ZOR M., ARMAN Y.
COMPOSITES PART B-ENGINEERING, vol.40, no.2, pp.174-179, 2009 (SCI-Expanded)
- XXIII. **The effect on residual stresses of porosity and surface roughness in high temperature insulation coatings on Ag tape for magnet technologies**
ARMAN Y., Sayman O., Celik E., Aksoy S., Hascicek Y. S.
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.206, pp.241-248, 2008 (SCI-Expanded)
- XXIV. **Investigation of the influence on residual stresses of porosity in high temperature ZrO₂ coatings on Ag tape for magnet technologies**
ARMAN Y., Aktas M., Celik E., Mutlu I. H., Sayman O.
MATERIALS & DESIGN, vol.28, no.9, pp.2544-2548, 2007 (SCI-Expanded)
- XXV. **Determination of critical delamination diameter of laminated composite plates under buckling loads**
ARMAN Y., Zor M., Aksoy S.
COMPOSITES SCIENCE AND TECHNOLOGY, vol.66, no.15, pp.2945-2953, 2006 (SCI-Expanded)
- XXVI. **Thermal stresses in a thermoplastic composite disc under a steady state temperature distribution**
Sayman O., ARMAN Y.
JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, vol.25, no.16, pp.1709-1722, 2006 (SCI-Expanded)

Articles Published in Other Journals

- I. **Effect of fiber orientation and loading direction on the compressive response of E-glass/Epoxy laminated composites used in modern helicopter blades submitted to high strain rate**
Çelik A., ARMAN Y.
Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, vol.13, no.4, pp.693-700, 2022 (Peer-Reviewed Journal)
- II. **İnsan Bacak Hareketleri İçin Prototip Dış iskelet Robotik Sisteminin Mekanik Tasarımı ve Hareket Verilerinin Yapay Sinir Ağları ile Elde Edilmesi**
ÖZKURT A., TOYGAR E. M., ŞENOL Y., OLCAY T., KIRAL Z., ARMAN Y., AKKAN T., GÖREN KIRAL B.
Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.16, no.3, pp.234-248, 2012 (Peer-Reviewed Journal)
- III. **Failure load of composite single-lap bolting joint under traction force and bending moment**
Ghanbari E., Sayman O., Ozen M., ARMAN Y.
Australian Journal of Basic and Applied Sciences, vol.6, no.9, pp.683-692, 2012 (Scopus)
- IV. **İnsan Bacak Hareketleri İçin Prototip Dış İskelet Robotik Sisteminin Mekanik Tasarımı ve Hareket Verilerinin Yapay Sinir Ağları İle Elde Edilmesi**
Toygara E. M., Özkurt A., Kırall Z., Çakmakçı M., Gören Kırall B., Şenoll Y., Akkan T., Arman Y., Olcay T., Dağhan N. M., et al.
Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.16, no.3, pp.234-248, 2012 (Peer-Reviewed Journal)

- V. **İnsan Bacak Hareketleri İçin Prototip Dış İskelet Robotik Sisteminin Mekanik Tasarımı Ve Hareket Verilerinin Yapay Sinir Ağları İle Elde Edilmesi**
Toygar E. M., Özkurt A., Kırıl Z., Çakmakçı M., Gören Kırıl B., Şenol Y., Akkan T., Arman Y., Olcay T., Dağhan N. M., et al.
SAKARYA UNIVERSITY JOURNAL OF SCIENCE, vol.16, no.3, pp.234-248, 2012 (Peer-Reviewed Journal)
- VI. **Dental Porselen Pişirme Fırınlarında Eşdeğer Taşınım Katsayısının Belirlenmesi**
ARMAN Y., AKSOY S.
Machinery MakinaTek, vol.127, pp.136-140, 2008 (Non Peer-Reviewed Journal)
- VII. **Elastic Plastic Stress Analysis of Symmetric Reinforced Thermoplastic Matrix Laminated Beams under a Bending Moment**
ÇALLIOĞLU H., AKSOY S., TOPÇU M., ARMAN Y.
International Journal of Applied Mechanics and Engineering, vol.8, no.4, pp.559-575, 2003 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **Analysis of Different Fixation Methods in Cranial Implants by Finite Element Method**
Giziroğlu M., ARMAN Y., HÜSEMOĞLU R. B.
IV. International Science and Innovation Congress, Turkey, 27 - 30 July 2023, pp.22
- II. **Comparision of CFRP and GFRP Composites Submitted to High Strain Rate**
ÇELİK A., ARMAN Y.
International Symposium on Automotive Science and Technology, Ankara, Turkey, 08 October 2021
- III. **Taktik Tekerlekli Araç Şasisine Ait Kambur Traversin Mekanik Tasarım İyileştirilmesi ve Sonlu Elemanlar Analizi**
SARI İ., ARMAN Y.
7. Uluslararası Mühendislik Mimarlık ve Tasarım Kongresi, Turkey, 21 - 22 May 2021, pp.543-558
- IV. **Simfizis Pubis Ayrılmasının Plak ile Tespitinin Sonlu Elemanlar Yöntemi İle Analizi**
Emiroğlu M. B., ARMAN Y., KARAKAŞLI A.
3rd International Students Science Congress, İzmir, Turkey, 3 - 04 May 2019, pp.497-503
- V. **Omuz Ekleminde Farklı Kas Gruplarının Sonlu Elemanlar Metodu ile Analizi ve Değerlendirilmesi**
Tümer D., ARMAN Y., Güngörürler M., HAVİTÇIOĞLU H.
3rd International Students Science Congress, İzmir, Turkey, 3 - 04 May 2019, pp.438-444
- VI. **Kompozit ve Çelik Güçlendirme Halkalarının Depolama Tankının Burkulma Yüküne Etkisi**
Çabuk E., ARMAN Y.
3rd International Students Science Congress, İzmir, Turkey, 3 - 04 May 2019, pp.419-424
- VII. **Failure Analysis of Adhesively Patch Repaired Composite Plates**
Çelik A., TURAN K., ARMAN Y.
1st International Symposium on Light Alloys and Composite Materials (ISLAC'18), 22 - 24 March 2018, pp.65
- VIII. **Fiber Kompozit Spall-Liner Tasarımı**
ARIKAN V., TOKSOY A. K., ARMAN Y., GÖREN A., KARAKUZU R.
SAVTEK 2018, 9. SAVUNMA TEKNOLOJİLERİ KONGRESİ, Ankara, Turkey, 27 - 29 June 2018, pp.133-142
- IX. **Farklı Çevresel Koşullara Maruz E-cam/Epoksi Kompozitin Darbe Davranışının Deneysel Olarak İncelenmesi**
DOĞAN A., ARMAN Y.
International Advanced Researches and Engineering Congress, Osmaniye, Turkey, 16 - 18 November 2017, pp.490
- X. **Effects of Hygrothermal Aging on the mechanical Properties of E-glass and Carbon Fiber reinforced Epoxy**
DOĞAN A., ARMAN Y.
25th Annual International Conference on Composites/Nano Engineering, 16 - 22 July 2017
- XI. **CAM FİBER TAKVİYELİ TERMOPLASTİK KOMPOZİTLERDE SICAKLIĞIN DARBE DAVRANIŞINA ETKİSİNİN İNCELENMESİ**

KARAKUZU R., ÖZDEMİR O., ARMAN Y.

IMSP 2016, 12 - 14 October 2016

- XII. **Cam Fiber Takviyeli Termoplastik Kompozitlerde Sıcaklığın Darbe Davranışına Etkisinin İncelenmesi**
KARAKUZU R., ÖZDEMİR O., ARMAN Y.
16th International Materials Symposium, 12 - 14 October 2016, pp.359-365
- XIII. **Investigation of the Mechanical Bonding Effects on Mechanical Performance of the Adhesively Bonded Composite Materials**
Kahvecioğlu Y. E., ARMAN Y.
3rd International Conference on Thermophysical and Mechanical Properties of Advanced Materials (THERMAM 2016), 1 - 03 September 2016, pp.150-157
- XIV. **CAM FİBER TAKVİYELİ TERMOPLASTİK KOMPOZİTLERDE SICAKLIĞIN DARBE DAVRANIŞINA ETKİSİNİN İNCELENMESİ**
KARAKUZU R., ÖZDEMİR O., İÇTEN B. M., ARMAN Y., ATAŞ C.
16th International Materials Symposium IMSP'2016, 12 - 14 October 2016
- XV. **Tabakalı Kompozit Malzemelerin Burkulma Davranışına Çoklu Süreksizlik Bölgesinin Etkisi**
İPEK G., ARMAN Y.
15th International Materials Symposium, Denizli, Turkey, 15 - 17 October 2014, pp.910-917
- XVI. **Experimental and numerical impact analyses of composite plates subjected to low velocity impact**
BERK B., KARAKUZU R., İÇTEN B. M., ARIKAN V., ARMAN Y., ATAŞ C., GÖREN A.
22th Annual International Conference on Composites/Nano Engineering (ICCE-22), Malta, 13 - 19 July 2014
- XVII. **Tabakalı Kompozitlerin Darbe Cevabına Malzeme Tipinin Etkisi**
İÇTEN B. M., ARIKAN V., ARMAN Y., KARAKUZU R.
II. Ulusal Ege Kompozit Malzemeler Sempozyumu, Aydın, Turkey, 7 - 09 November 2013, pp.619-627
- XVIII. **Tek kayma düzlemine sahip civatalı kompozit bağlantılarda delik deplasmanının deneysel olarak incelenmesi**
ARMAN Y., ATAŞ C.
14th International Materials Symposium, Denizli, Turkey, 10 - 12 October 2012, pp.1293-1300
- XIX. **Sandviç kompozit plakların mekanik bağlantı hasarları**
BASMACI A., ATAŞ C., ARMAN Y.
14th International Materials Symposium, Denizli, Turkey, 10 - 12 October 2012, pp.1129-1135
- XX. **Effect of root crack on lateral buckling loads of sandwich composite beams**
ÖZEN M., SAYMAN O., ARMAN Y., ARIKAN V., DOĞAN A.
14th International Materials Symposium, Denizli, Turkey, 10 - 12 October 2012, pp.444-451
- XXI. **Experimental Investigation of Buckling Behavior in Laminated Composite Plates with Elliptical Delamination**
ARMAN Y., AKTAŞ M., KARAKUZU R.
13th International Materials Symposium, Denizli, Turkey, 13 - 15 October 2010, pp.565-572
- XXII. **Kuron ve köprü uygulamalarında fırınlama işlemi sonrası oluşan gerilmeler**
ARMAN Y., ZOR M., AKSOY S., GÜNGÖR M. A.
IV. Ulusal Biyomekanik Kongresi, Erzurum, Turkey, 16 - 17 October 2008, pp.234-246
- XXIII. **Tabakalı kompozit plaklarda eliptik süreksizlik bölgesinin kritik burkulma yükü üzerine etkisi**
ARMAN Y., AKTAŞ M., ATAŞ C., İÇTEN B. M.
XV. Ulusal Mekanik Kongresi, Isparta, Turkey, 3 - 07 September 2007, pp.107-116
- XXIV. **Tabakalı kompozit plakların ağırlık düşürme testi sonrası bası mukavemetlerinin belirlenmesi**
AKTAŞ M., ARMAN Y., KARAKUZU R.
XV. Ulusal Mekanik Kongresi, Isparta, Turkey, 3 - 07 September 2007, pp.69-76
- XXV. **Tabakalı kompozitlerde pim sayısının ve konumunun hasar yükü ve hasar türüne etkisi**
KARAKUZU R., AKTAŞ M., ARMAN Y.
XV. Ulusal Mekanik Kongresi, Isparta, Turkey, 3 - 07 September 2007, pp.533-542
- XXVI. **Evaluating The Effect of Different Cooling Conditions of Ceramic Restorations on Producing Residual Thermal Stresses**

AKAN E., GÜNGÖR M. A., ZOR M., ARMAN Y., ARTUNÇ C.

12 th Congress of the BaSS, 12 - 14 April 2007

XXVII. Elasto Plastic Thermal Stress Analysis In A Thermoplastic Composite Disc Under Linear Temperature Application UsingFEM

ŞEN F., SAYER M., ARMAN Y.

11th International Materials Symposium, Denizli, Turkey, 19 - 21 April 2006, pp.543-547

XXVIII. Kenarlarından Basit Mesnetlendirilmiş Tabakalı Kompozit Plakların Burkulma Yükleri Üzerine Tabakalar Arasında Meydana Gelen Süreksizlik Bölgesinin Etkisi

ARMAN Y., ŞEN F., ZOR M.

11th International Materials Symposium, Denizli, Turkey, 19 - 21 April 2006, pp.649-654

Metrics

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