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Personal Information

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Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri, Makina Mühendisliği, Turkey 2006 - 2012

Post Graduate, Karadeniz Technical University, Fen Bilimleri, Makina Mühendisliği, Turkey 2001 - 2005

Under Graduate, Karadeniz Technical University, Mühendislik Fakültesi, Makina Mühendisliği, Turkey 1997 - 2001

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, SEÇİCİ LAZER ERGİTME YÖNTEMİ İLE ÜRETİLEN MİKRO KAFES YAPILARIN MEKANİK DAVRANIŞLARININ İNCELENMESİ, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Makina Mühendisliği, 2012

Post Graduate, ŞEKİL VERME İŞLEMİNİN ÇARPMA PERFORMANSINA ETKİLERİNİN SONLU ELEMENLAR YÖNTEMİ İLE İNCELENMESİ, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Makina Mühendisliği, 2006

Research Areas

Mechanical Engineering, Mechanical, Solid Mechanics, Finite Element Methods, Mechanical Testing, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Karadeniz Technical University, Mühendislik Fak., Makine Müh., 2017 - Continues

Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Makina Mühendisliği, 2013 - Continues

Advising Theses

GÜMRÜK R., BASINÇLANDIRILMIŞ İNCE CİDARLI TÜPLERİN ÇARPMA PERFORMANSLARININ BELİRLENMESİ, Post Graduate, H.KULEYİN(Student), 2018

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

1. Investigation of wear resistance of the porcelain tile bodies by solid particle impingement using

alumina particles

Aydin T., Bican O., GÜMRÜK R.

JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY, vol.56, is.2, pp.525-531, 2020 (Journal Indexed in SCI)

- II. **Investigation of mechanical properties of electroless nickel plated micro-lattice structures**
GÜMRÜK R., UŞUN A.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.35, is.4, pp.1783-1798, 2020 (Journal Indexed in SCI)
- III. **Pressure wave propagation in pressurized thin-walled circular tubes under axial impact**
KULEYİN H., GÜMRÜK R.
INTERNATIONAL JOURNAL OF IMPACT ENGINEERING, vol.130, pp.138-152, 2019 (Journal Indexed in SCI)
- IV. **The mechanical compression performance of ultra-fine grained stainless steel pyramidal lattice core**
KULEYİN H., GÜMRÜK R., YANAR H., Demirtaş M., PÜRÇEK G.
MECHANICS OF ADVANCED MATERIALS AND STRUCTURES, 2019 (Journal Indexed in SCI)
- V. **Determination of Strain Rate Sensitivity of Micro-struts Manufactured Using the Selective Laser Melting Method**
GÜMRÜK R., Mines R. A. W. , Karadeniz S.
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, vol.27, is.3, pp.1016-1032, 2018 (Journal Indexed in SCI)
- VI. **COMPRESSIVE MECHANICAL BEHAVIORS OF HYBRID COMPOSITE MATERIALS BASED ON MICRO LATTICE STRUCTURE AND RUBBERLIKE MATERIALS**
GÜMRÜK R., Mazlum U., Mines R. A. W.
RUBBER CHEMISTRY AND TECHNOLOGY, vol.88, is.1, pp.147-162, 2015 (Journal Indexed in SCI)
- VII. **A numerical investigation of dynamic plastic buckling behaviour of thin-walled cylindrical structures with several geometries**
Gumruk R.
THIN-WALLED STRUCTURES, vol.85, pp.388-397, 2014 (Journal Indexed in SCI)
- VIII. **Static mechanical behaviours of stainless steel micro-lattice structures under different loading conditions**
GÜMRÜK R., Mines R. A. W. , Karadeniz S.
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, vol.586, pp.392-406, 2013 (Journal Indexed in SCI)
- IX. **Compressive behaviour of stainless steel micro-lattice structures**
GÜMRÜK R., Mines R. A. W.
INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, vol.68, pp.125-139, 2013 (Journal Indexed in SCI)
- X. **The influences of the residual forming data on the quasi-static axial crash response of a top-hat section**
GÜMRÜK R., KARADENİZ S.
INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, vol.51, is.5, pp.350-362, 2009 (Journal Indexed in SCI)
- XI. **A numerical study of the influence of bump type triggers on the axial crushing of top hat thin-walled sections**
GÜMRÜK R., KARADENİZ S.
THIN-WALLED STRUCTURES, vol.46, is.10, pp.1094-1106, 2008 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Enhancement of the Mechanical Performance of Stainless Steel Micro Lattice Structures Using Electroless Plated Nickel Coatings**
GÜMRÜK R., UŞUN A., Mines R. A.
Proceedings, vol.2, is.8, pp.494, 2018 (Non-Refreed Journal)
- II. **Experimental Investigation of MR Effect to RTV Silicone Rubber-based Magneto-rheological**

Materials

MAZLUM U., GÜMRÜK R.

Cumhuriyet Science Journal, vol.38, is.3, pp.563-571, 2017 (Other Refereed National Journals)

III. Experimental investigation of the effect of ferromagnetic particles addition on mechanical properties of magneto-rheological materials

MAZLUM U., GÜMRÜK R.

PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.23, is.4, pp.417-421, 2017 (Journal Indexed in ESCI)

IV. INVESTIGATION OF DYNAMICS MECHANICAL BEHAVIOUR OF STAINLESS STEEL STRUCTURES PRODUCED BY THE SELECTIVE LASER MELTING TECHNIQUE

GÜMRÜK R., KULEYİN H., RAW M.

International Journal of Engineering, Technology and Natural Sciences, vol.1, is.1, pp.23-30, 2016 (Non-Refreed Journal)

V. MANYETO REOLOJİK ETİLEN PROPİLEN DİEN MONOMER VE DOĞAL KAUÇUK TÜRÜ SENTETİK KAUÇUKLARIN İZOTROP VE ANİZOTROP DURUMDA MEKANİK ÖZELLİKLERİNİN İNCELENMESİ

MAZLUM U., GÜMRÜK R.

Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, vol.21, is.8, pp.371-375, 2015 (Other Refereed National Journals)

VI. INVESTIGATION OF MECHANICAL PROPERTIES OF MAGNETO-RHEOLOGICAL ETHYLENE PROPYLENE DIENE MONOMER AND NATURAL RUBBER TYPE SYNTHETIC RUBBERS FOR BOTH ISOTROPIC AND ANISOTROPIC SITUATIONS

MAZLUM U., GÜMRÜK R.

PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.21, is.8, pp.371-375, 2015 (Journal Indexed in ESCI)

Refereed Congress / Symposium Publications in Proceedings

I. ENERGY ABSORPTION PERFORMANCE OF PRESSURIZED THIN-WALLED TUBES

KULEYİN H., GÜMRÜK R.

The International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology, Nevşehir, Turkey, 21 - 23 June 2019

II. BASINÇLANDIRILMIŞ İNCE CİDARLI TÜPLERİN ADAPTİF ENERJİ SÖNÜMLEYİCİ OLARAK KULLANIMI

KULEYİN H., GÜMRÜK R.

The International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology, Nevşehir, Turkey, 21 - 23 June 2019

III. INVESTIGATION OF WEAR RESISTANCE OF THE PORCELAIN TILE BODIES BY SOLID PARTICLE IMPINGEMENT USING ALUMINA PARTICLES

AYDIN T., BİCAN O., GÜMRÜK R.

SERES 2018, 10 - 12 October 2018, pp.81-88

IV. Düşük Basınçta Karbondioksit Kullanarak RTV Silikon Köpük Malzemesi Elde Edilmesi

MAZLUM U., GÜMRÜK R.

International Conference on Advanced Engineering Technologies, 21 - 23 October 2017

V. Harmonik Yükleme Altında Manyeto-reolojik Elastomerlerin Kesme Davranışının Belirlenmesi

MAZLUM U., GÜMRÜK R.

International Conference on Advanced Engineering Technologies, 21 - 23 October 2017

VI. Experimental investigations on particle erosion behavior of AA 6061 alloy

ACAR D., MERİÇ D., BUDUR A. İ. , GÜMRÜK R., SOFUOĞLU H., GEDİKLİ H., CORA Ö. N.

9th Ankara International Aerospace Conference, Ankara, Turkey, 20 - 22 September 2017, pp.1-10

VII. MANYETO REOLOJİK MALZEMELERE FERROMANYETİK TOZ İLAVESİNİN MEKANİK ÖZELLİKLERE ETKİSİNİN DENEYSEL OLARAK İNCELENMESİ

MAZLUM U., GÜMRÜK R.

16th International Materials Symposium IMSP'2016, 12 - 14 October 2016

VIII. **MANYETO REOLOJİK MALZEMELER ÜZERİNDEKİ MULLİNS ETKİSİ PARAMETRESİNİN DENEYSEL OLARAK BELİRLENMESİ**

MAZLUM U., GÜMRÜK R.

International Conference on Material Science and Technology in Cappadocia (IMSTEC 2016), 6 - 08 April 2016

IX. **Helikopter Pali Aşınma Kalkanında Meydana Gelen Katı Parçacık Erozyonunun İncelenmesi İçin Bir Test Düzeneği Tasarım ve İmalatı**

Acar D., Meriç D., Sofuoğlu H., Gümrük R., Cora Ö. N. , Gedikli H.

VI. ULUSAL HAVACILIK VE UZAY KONFERANSI, Kocaeli, Turkey, 28 - 30 October 2016

X. **Helikopter Palinin Aşınma Kalkanında Meydana Gelen Katı Parçacık Erozyonunun İncelenmesi İçin Bir Test Düzeneği ve Tasarımı**

ACAR D., MERİÇ D., SOFUOĞLU H., GÜMRÜK R., CORA Ö. N. , GEDİKLİ H.

Ulusal Havacılık ve Uzay Kongresi 2016, Kocaeli, Turkey, 28 - 30 September 2016, pp.1082-1094

XI. **Helikopter Palinin Aşınma Kalkanında Meydana Gelen Katı Parçacık Erozyonunun İncelenmesi İçin Bir Test Düzeneği Tasarımı ve İmalatı**

ACAR D., MERİÇ D., SOFUOĞLU H., GÜMRÜK R., CORA Ö. N. , GEDİKLİ H.

VI. Ulusal Havacılık ve Uzay Kongresi 2016, Kocaeli, Turkey, 28 - 30 September 2016, pp.1082-1094

XII. **INVESTIGATION OF DYNAMICS MECHANICAL BEHAVIOUR OF STAINLESS STEEL STRUCTURES PRODUCED BY THE SELECTIVE LASER MELTING TECHNIQUE**

GÜMRÜK R., KULEYİN H., RAW M.

MECHATECH '16 / International Mechanical Engineering and Technologies Conference, 17 - 18 May 2016

XIII. **DETERMINATION OF DYNAMIC MATERIALS DATA FOR MICRO LATTICE STRUTS USING A TENSILE HOPKINSON BAR**

RAW M., GÜMRÜK R., KARADENİZ S.

17th International Conference on Experimental Mechanics (ICEM 17), 3 - 07 July 2016

XIV. **Investigation Of Mechanical Properties Of Magneto Rheological EPDM And NR Synthetic Rubbers For Both Isotropic And Anisotropic Situations**

MAZLUM U., GÜMRÜK R.

15th International Materials Symposium (IMSP'2014), 15 - 17 October 2014

XV. **An investigation of mechanical properties of constrained stainless steel BCC micro lattice structures**

GÜMRÜK R., RAW M., SOZOS T.

13th International Materials Symposium (IMSP'2010), 13 - 15 October 2010, vol.147

XVI. **The effects of the sheet metal forming process on the crash performance**

GÜMRÜK R., KARADENİZ S.

11th. Conference for Computer-Aided Engineering and System Modeling, 13 - 15 September 2006

Other Publications

I. **Enhancement of the Mechanical Performance of Stainless Steel Micro Lattice Structures Using Electroless Plated Nickel Coatings**

GÜMRÜK R., UŞUN A., MINES R.

Other, pp.494, 2018

II. **Enhancement of the Mechanical Performance of Stainless Steel Micro Lattice Structures Using Electroless Plated Nickel Coatings**

GÜMRÜK R., UŞUN A., MINES R.

Other, pp.494, 2018

Supported Projects

GEDİKLİ H., MERİÇ D., BUDUR A. İ. , CORA Ö. N. , ÖZEN İ., ACAR D., ÇETİN M. E. , GÜMRÜK R., Project Supported by Higher Education Institutions, ÖRGÜLÜ ELYAF TAKVİYELİ KOMPOZİT YAPILARIN MEKANİK VE BALİSTİK ÖZELLİKLERİNİN ARAŞTIRILMASI, 2016 - 2018

Citations

Total Citations (WOS):221

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