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International Researcher IDs

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Publons / Web Of Science ResearcherID: E-8782-2018

Yoksis Researcher ID: 198356

Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Makina Mühendisliği, Turkey 2014 - 2020

Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Makina Mühendisliği, Turkey 2012 - 2014

Undergraduate Double Major, Cukurova University, Mühendislik Mimarlık, Otomotiv Mühendisliği, Turkey 2009 - 2012

Undergraduate, Cukurova University, Mühendislik Mimarlık, Makine Mühendisliği, Turkey 2007 - 2012

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, DEVELOPING AND TESTING OF POLYMER FOAM CORE SANDWICH STRUCTURES WITH HYBRID CARBON FIBER/WIRE MESH SHEET FACINGS, Cukurova University, Fen Bilimleri Enstitüsü, Makina Mühendisliği, 2020

Postgraduate, A Comparison of Approaches to Involute Spur Gear Design, Cukurova University, Fen Bilimleri, Makine Mühendisliği, 2014

Research Areas

Mechanical Engineering, Construction and Manufacturing, Machine Elements, Computer Aided Design and Manufacturing, Material, Mechanical Properties, Composites, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Cukurova University, Mühendislik Mimarlık, Makine Mühendisliği, 2014 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

1. A proposal to improve the competence of students within the unnecessarily complex mechanical engineering design environment

GEREN N., UZAY Ç., BAYRAMOĞLU M.

INTERNATIONAL JOURNAL OF TECHNOLOGY AND DESIGN EDUCATION, vol.31, no.4, pp.741-770, 2021 (SCI-Expanded)

II. **Effect of stainless-steel wire mesh embedded into fibre-reinforced polymer facings on flexural characteristics of sandwich structures**

UZAY Ç., GEREN N.

Journal of Reinforced Plastics and Composites, vol.39, pp.613-633, 2020 (SCI-Expanded)

III. **Characterization of boronized AISI 1050 steel and optimization of process parameters**

BOZTEPE M. H., BAYRAMOĞLU M., UZAY Ç., Dagsuyu C., KOKANGÜL A., GEREN N.

MATERIALS TESTING, vol.61, no.6, pp.549-553, 2019 (SCI-Expanded)

IV. **Bending behavior of sandwich structures with different fiber facing types and extremely low-density foam cores**

Uzay Ç., Geren N., Bortepe M. H., Bayramoğlu M.

MATERIALS TESTING, vol.61, pp.220-230, 2019 (SCI-Expanded)

V. **Mechanical engineering and issues on teaching mechanical engineering design in Turkey**

GEREN N., UZAY Ç., BAYRAMOĞLU M.

INTERNATIONAL JOURNAL OF TECHNOLOGY AND DESIGN EDUCATION, vol.28, no.3, pp.843-866, 2018 (SCI-Expanded)

VI. **Introducing gear ratings and AGMA conversion factors for the steel spur gear design under bending fatigue**

GEREN N., UZAY Ç., BAYRAMOĞLU M.

MATERIALS TESTING, vol.59, pp.1043-1053, 2017 (SCI-Expanded)

VII. **Effect of post-curing heat treatment on mechanical properties of fiber reinforced polymer (FRP) composites**

Uzay Ç., Boztepe M. H., Bayramoğlu M., Geren N.

MATERIALS TESTING, vol.59, pp.366-372, 2017 (SCI-Expanded)

Articles Published in Other Journals

I. **ADVANCED TECHNOLOGIES FOR FIBER REINFORCED POLYMERCOMPOSITE MANUFACTURING: A REVIEW**

UZAY Ç., GEREN N.

Kahramanmaraş Sütçü İmam Üniversitesi Mühendislik Bilimleri Dergisi, vol.23, no.4, pp.236-248, 2020 (Peer-Reviewed Journal)

II. **Failure Analysis of Low-density Polymer Foam Core Sandwich Structures under Three-point Bending Loading**

UZAY Ç., GEREN N.

Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.35, no.3, pp.813-820, 2020 (Peer-Reviewed Journal)

III. **Alternatif FML Kompozitler için Titanyum ve Elyaf/Epoksi Ara Yüzey Dayanımının İncelenmesi**

BOZTEPE M. H., BAYRAMOĞLU M., UZAY Ç., GEREN N.

Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.35, no.3, pp.813-820, 2020 (Peer-Reviewed Journal)

IV. **Impact Strength of Interply and Intraply Hybrid Laminates Based on Carbon-Aramid/Epoxy Composites**

UZAY Ç., ACER D. C., GEREN N.

European Mechanical Science, vol.3, no.1, pp.1-5, 2019 (Peer-Reviewed Journal)

V. **Design of Composite Sandwich Chassis and Application to Urban Concept Electric Vehicles**

UZAY Ç., ACER D. C., GEREN N., AKILLI H.

International Journal of Mechanical and Production Engineering (IJMPE), vol.6, no.9, pp.41-45, 2018 (Scopus)

- VI. **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)
- VII. **Advanced Material Selection Technique For High Strength and Lightweight Spur Gear Design**
Geren N., Uzay Ç.
European Mechanical Science, vol.1, no.4, pp.133-140, 2017 (Peer-Reviewed Journal)
- VIII. **Improving the Adhesion Bonding Strength for FML Composites by Using a Extremely Thin Mesh Steels**
BOZTEPE M. H., BAYRAMOĞLU M., UZAY Ç., GEREN N.
European Mechanical Science, vol.1, no.4, pp.111-116, 2017 (Peer-Reviewed Journal)
- IX. **Intelligent Use of ISO and AGMA Gear Standards for Cost Effective Spur Gear Design**
UZAY Ç., GEREN N.
Mühendislik Bilimleri ve Tasarım Dergisi, vol.5, no.3, pp.643-655, 2017 (Peer-Reviewed Journal)
- X. **Sandviç Malzeme Geliştirmede Polimer Köpük Çekirdek Kalınlığının Eğilme Dayanımına Etkisinin Deneysel olarak Araştırılması**
GEREN N., UZAY Ç., BOZTEPE M. H., BAYRAMOĞLU M.
ÇUKUROVA ÜNİVERSİTESİ MÜHENDİSLİK MİMARLIK FAKÜLTESİ DERGİSİ, vol.32, no.2, pp.13-22, 2017 (Peer-Reviewed Journal)
- XI. **A comparison of modules by using two different gear design approaches,**
Uzay Ç., Geren N.
Ç.Ü. Journal of Science and Engineering, vol.32, no.4, pp.47-56, 2015 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Enhanced Failure Behavior for Sandwiches with Hybrid Wire Mesh/FRP Face Sheets**
UZAY Ç., GEREN N.
in: Sandwich Composites, Fabrication and Characterization, Krishnasamy Senthilkumar, Muthukumar Chandrasekar , Thiagamani Senthil Muthu Kumar, Rangappa Sanjay Mavinkere, Siengchin Suchart, Editor, Routledge and CRC Press, Boca Raton, pp.191-212, 2022

Refereed Congress / Symposium Publications in Proceedings

- I. **A LIGHTWEIGHT MULTIFUNCTIONAL BATTERY CASE**
Geren N., Gökçiler O. C., İbekci M. B., Uzay Ç., Bayramoğlu M.
20th INTERNATIONAL CONFERENCE ON MACHINE DESIGN AND PRODUCTION- UMTİK 2024, Ankara, Turkey, 14 - 17 August 2024, vol.1, pp.365-379
- II. **Design and Optimization of a Wheel Hub for Lightweight Efficiency Challenge Vehicles**
ACER D. C., UZAY Ç., GEREN N., AKILLI H.
International Advanced Researches Engineering Congress-2017, Osmaniye, Turkey, 16 - 18 November 2017, vol.1, pp.192-200
- III. **Bending Behavior of Sandwich Structures Having Low Density PVC Foam Cores and $\pm 45^\circ$ Carbon/Epoxy Facings**
Uzay Ç., Geren N., Boztepe M. H., Bayramoğlu M.
International Advanced Researches Engineering Congress-2017, Osmaniye, Turkey, 16 - 18 November 2017
- IV. **Manufacturing of Light Weigth Sandwich Structure by Using Polymer Foam Core**
UZAY Ç., GEREN N., BOZTEPE M. H., BAYRAMOĞLU M.
Istanbul International Conference On Progres in Applied Science 2017 – ICPAS 2017, İstanbul, Turkey, 4 - 06 January 2017, vol.1, pp.1-6

- V. **MANUFACTURING OF LIGHT WEIGHT SANDWICH STRUCTURES BY USING POLYMER FOAM CORE**
UZAY Ç., GEREN N., BOZTEPE M. H., BAYRAMOĞLU M.
ISTANBUL INTERNATIONAL CONFERENCE ON PROGRES IN APPLIED SCIENCE 2017 – ICPAS 2017, 4 - 06 January 2017
- VI. **INVESTIGATION OF THE ADHESION BONDING CAPABILITY BETWEEN DIFFERENT METALS AND FRP COMPOSITE LAYERS**
BOZTEPE M. H., BAYRAMOĞLU M., UZAY Ç., GEREN N.
ISTANBUL INTERNATIONAL CONFERENCE ON PROGRES IN APPLIED SCIENCE 2017 – ICPAS 2017, 4 - 06 January 2017
- VII. **MANUFACTURING OF LIGHT WEIGTH SANDWICH STRUCTURES BY USINGPOLYMER FOAM CORE**
Uzay Ç., Geren N., Boztepe M. H., Bayramoğlu M.
ISTANBUL INTERNATIONAL CONFERENCE ON PROGRES IN APPLIED SCIENCE 2017 ? ICPAS 2017, İstanbul, Turkey, 4 - 06 January 2017, vol.1, no.1, pp.1-6
- VIII. **A TRANSLATION TECHNIQUE: DIMENSIONLESS RATINGS AND CONVERSION FACTORS BETWEEN ISO AND AGMA GEAR STANDARDS**
Geren N., Uzay Ç.
ASME International Mechanical Engineering Congress and Exposition (IMECE2016), Arizona, United States Of America, 11 - 17 November 2016
- IX. **Significant influence of rating the spur gear design results obtained from iso and agma standards**
Uzay Ç., Geren N., Çetin A.
1st International MediterraneanSCIENCE AND ENGINEERING CONGRESS, Adana, Turkey, 26 - 28 October 2016
- X. **Adhesion Surface Bonding Capability of Different Metal Sheets for Fiber Metal Laminate FML Applications**
Uzay Ç., Boztepe M. H., Bayramoğlu M., Geren N.
1st International Mediterranean Science and Engineering Congress, Adana, Turkey, 26 - 28 October 2016
- XI. **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, pp.3864-3870
- XII. **METHOD FOR RATING AND CONVERTING TEXT BOOK SPUR GEAR DESIGN RESULTS TO ISO GEAR STANDARDS**
Uzay Ç., Geren N.
The 17th International Conference on Machine Design and Production, Bursa, Turkey, 12 - 15 July 2016

Supported Projects

AKILLI H., AKSOY M., GEREN N., DURHASAN T., BOZTEPE M. H., UZAY Ç., ÖZKAN G. M., Project Supported by Higher Education Institutions, Yerli Elektrikli Hafif Otomobil Tasarım ve İmalatı, 2016 - 2019

BAYRAMOĞLU M., UZAY Ç., GEREN N., BOZTEPE M. H., Project Supported by Higher Education Institutions, FML Kompozitler de Metal Plakalara Uygulanan Yüzey İşlemlerinin Tutunma Dayanımına Etkilerinin Araştırılması, 2017 - 2018

GEREN N., UZAY Ç., BOZTEPE M. H., BAYRAMOĞLU M., ACER D. C., Project Supported by Higher Education Institutions, Sandviç Panellerin Sonlu Elemanlar Yöntemi ile Modellenmesi Analiz Edilmesi ve Sonuçların Deneysel Verilerle Karşılaştırılması, 2017 - 2018

AKILLI H., UZAY Ç., Project Supported by Higher Education Institutions, Charpy Test Cihazı Onarımı ve Bakımı, 2017 - 2017

BAYRAMOĞLU M., GEREN N., BOZTEPE M. H., UZAY Ç., Project Supported by Higher Education Institutions, FML Kompozitler de Tutunma Yüzeyinin İyileştirilmesi, 2016 - 2016

GEREN N., BOZTEPE M. H., UZAY Ç., BAYRAMOĞLU M., Project Supported by Higher Education Institutions, Elektrikli araç şasisleri için hafif sandviç panel geliştirilmesi, 2016 - 2016

Metrics

Publication: 36

Citation (WoS): 10

Citation (Scopus): 47

H-Index (WoS): 2

H-Index (Scopus): 4

Non Academic Experience

Tensor Mühendislik Arge Danışmanlık San. ve Tic. Ltd. Şti.

Business Establishment Private, TEMSA GLOBAL A.Ş.

TEMSA GLOBAL A.Ş.