

## Prof. NECDET GEREN

### Personal Information

**Office Phone:** [+90 322 338 6084](tel:+903223386084) Extension: 2726

**Email:** gerendr@cu.edu.tr

**Web:** <https://avesis.cu.edu.tr//gerendr>

**Address:** Ç.Ü. Mühendislik-Mimarlık Fakültesi Makine Müh. Bölümü 01330 Balcalı/Adana

### International Researcher IDs

ScholarID: IcwXwTQAAAAJ

ORCID: 0000-0002-9645-0852

Publons / Web Of Science ResearcherID: ISU-9360-2023

ScopusID: 56037662900

Yoksis Researcher ID: 3809

### Education Information

Doctorate, University of Salford, Faculty Of Engineering , Aero. And Mech Eng., United Kingdom 1989 - 1993

Postgraduate, Cukurova University, Mühendislik Mimarlık Fakültesi, Makine Mühendisliği , Turkey 1984 - 1987

Undergraduate, Cukurova University, Mühendislik Mimarlık Fakültesi, Makine Mühendisliği , Turkey 1980 - 1984

### Dissertations

Doctorate, Design and development of the hardware for an automated PCBA inspection and rework cell, University of Salford, Faculty of Engineering, Department of Aeronautical and Mechanical Engineering, 1993

Postgraduate, Karşıt döner silindirli yer fistiği temizleme ve sınıflandırma makinesi tasarımı, Cukurova University, Fen Bilimleri Enstitüsü, Makina Mühendisliği, 1987

### Research Areas

Mechanical Engineering, Construction and Manufacturing, Machine Elements, Machine Design, Non-traditional manufacturing methods, Material, Engineering and Technology

### Academic and Administrative Experience

Rektörlük Stratejik Plan Komisyonu Üyesi, Cukurova University, Mühendislik Fakültesi, 2017 - 2018

Director of the Center, THE SCIENTIFIC AND TECHNOLOGICAL RESEARCH COUNCIL OF TURKEY, Üniversite-Sanayi Ortak Araştırma Merkezleri (ÜSAM) programı, TÜBİTAK-Adana-ÜSAM, 2005 - 2006

Assistant Coordinator, Science Engineering Research Council of Turkey, TÜBİTAK-Adana Üniversite-Sanayi Ortak Araştırma Merkezi, Merkez Danışmanı, 2003 - 2005

Yükseköğretim Kurulu Üyesi, Cukurova University, Adana Meslek Yüksek Okulu, 1999 - 2004

Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Cukurova University, Rektörlük, Endüstriyel ve Tıbbi Elektronik Enstrümantasyon Araştırma ve Uygulama Merkezi, 1994 - 1998

## Courses

### Doctorate

SPECIAL AREA COURSE, Doctorate, 2016 - 2017

SPECIAL AREA COURSE, Doctorate, 2016 - 2017

MANUFACURING ASSEMBLY AND INDUSTRIAL ROBOTS, Doctorate, 2014 - 2015

### Postgraduate

DESIGN PROJECT STUDIES II, Postgraduate, 2019 - 2020, 2014 - 2015

DESIGN PROJECT STUDIES I, Postgraduate, 2019 - 2020, 1994 - 1995

SPECIAL AREA COURSE, Postgraduate, 2016 - 2017

Flexible Manufacturing Cells and Design Methodologies, Postgraduate, 2016 - 2017

SPECIAL AREA COURSE, Postgraduate, 2016 - 2017

Advanced Material Selection, Postgraduate, 2016 - 2017

### Undergraduate

ENGINEERING PROJECT I, Undergraduate, 2016 - 2017

ENGINEERING PROJECT II, Undergraduate, 2016 - 2017

Pneumatic Systems for Automation, Undergraduate, 2014 - 2015

Maachine Elements I, Undergraduate, 2014 - 2015

Industrial Robots and Manufacturing Automation, Undergraduate, 2014 - 2015

Machine Elements II, Undergraduate, 2014 - 2015

## Supervised Theses

Geren N., The development of self-healing functions of composite structures via microvascular channels, Postgraduate, E.KOŞTUR(Student), 2024

Geren N., Parametric modelling and validation for ball joint in Matlab partial differential equation module, Postgraduate, M.ÖZAGİL(Student), 2023

Geren N., The effect of additives on flexural and flame retardant properties of carbon fiber/epoxy sandwich structures, Postgraduate, E.ONUR(Student), 2023

Geren N., Analytical modeling and experimental validation of the flexural behavior of composite face-layered sandwich beams using novel engineering approaches, Doctorate, A.ÇETİN(Student), 2023

Geren N., Development of a new sheet metal forming technique using low melting alloy 3D printers, Doctorate, H.DELİBAŞ(Student), 2022

Geren N., Ratings of various gear design approaches and a translation technique for spiral bevel gear design, Postgraduate, M.ONUR(Student), 2020

Geren N., DEVELOPING AND TESTING OF POLYMER FOAM CORE SANDWICH STRUCTURES WITH HYBRID CARBON FIBER/WIRE MESH SHEET FACINGS, Doctorate, Ç.UZAY(Student), 2020

Geren N., A comparison of approaches to involute helical gear design, Postgraduate, Z.DİCLE(Student), 2019

Geren N., A comparison of approaches to involute bevel gear design, Postgraduate, G.TURĞUT(Student), 2019

Geren N., The effect of additives on the low velocity impact properties of low density fiber sandwich panels, Postgraduate, D.CAN(Student), 2019

Geren N., Investigating the success of a new systematic product design approach on example designs, Postgraduate, M.MERT(Student), 2016

Geren N., Parametric design of automotive ball joint using computer assisted 3d modeling, Postgraduate, O.OKTAY(Student), 2015

Geren N., A comparison of approaches to involute spur gear design, Postgraduate, Ç.UZAY(Student), 2014

Geren N., Systematic design of carton separating machine, Postgraduate, H.Delibas(Student), 2012

Geren N., Redesign of high pressure pipes and connections for water-jet cutting system, Postgraduate, T.KANTARCI(Student), 2010

Geren N., Optimization of process parameters of drilling using the Taguchi method, Postgraduate, E.KABAKLI(Student), 2009

Geren N., The design of the water-jet cutting machine, intensifier unit, Postgraduate, A.KUNİ(Student), 2008

Geren N., Design of a fully automated flexible PCBA rework system using systematic design techniques, Postgraduate, Ç.SARIGÜL(Student), 2008

Geren N., Modeling of water jet intensifier and materials selection for optimum wall thicknesses, Postgraduate, M.İLTERİŞ(Student), 2004

Geren N., Alternative proposals for automating rework of advanced surface mount components, Postgraduate, M.ÇAKIRCA(Student), 2004

Geren N., Redesign of high pressure water-jet cutting system, Postgraduate, M.TUTAL(Student), 2002

Geren N., Development of expert system for shaft design, Postgraduate, J.HADZİGRAHİC(Student), 2001

Geren N., Expert system development for gearbox design, Postgraduate, M.MURAT(Student), 2000

Geren N., Multi-layer intensifier design and analysis of design parameters, Postgraduate, T.TUNÇ(Student), 2000

Geren N., Design and manufacturing of a double-acting high pressure intensifier, Postgraduate, S.KIRBAŞ(Student), 1999

Geren N., Kanada kavağının liflerine paralel olarak uygun bir kesici takım ve kesme metodu geliştirilerek talaşsız kesilmesi, Postgraduate, E.EKLER(Student), 1998

Geren N., Scara tipi robot kolunun hareketlerinin bilgisayar destekli programlarla kontrolü, Postgraduate, M.ERTÜRK(Student), 1997

## **Published journal articles indexed by SCI, SSCI, and AHCI**

- I. **Effect of Fiber Architecture on the Physical and Mechanical Properties of Carbon Fiber-Reinforced Polymer Composites**  
Çetin A., UZAY Ç., GEREN N.  
Arabian Journal for Science and Engineering, 2025 (SCI-Expanded)
- II. **Evaluating the performance of Bi58Sn42 mold produced by material extrusion additive manufacturing system for agile manufacturing**  
Delibaş H., Geren N.  
RAPID PROTOTYPING JOURNAL, vol.30, no.8, pp.1489-1501, 2024 (SCI-Expanded)
- III. **Predicting the tensile stiffness and strength properties of plain woven carbon fiber/epoxy laminates: a practical analytical approach and experimental validations**  
Uzay Ç., Çetin A., Geren N., Bayramoğlu M., Tütüncü N.  
MECHANICS OF ADVANCED MATERIALS AND STRUCTURES, vol.31, no. 12, pp.2619-2634, 2024 (SCI-Expanded)
- IV. **Predicting the indentation load of FRP facesheet / foam core sandwiches**  
Çetin A., Uzay Ç., Tütüncü N., Geren N.  
STRUCTURES, vol.62, 2024 (SCI-Expanded)
- V. **A practical approach to predict the flexural properties of woven plain carbon fiber/epoxy laminates**  
Çetin A., Uzay Ç., Geren N., Bayramoğlu M., Tütüncü N.  
MECHANICS OF ADVANCED MATERIALS AND STRUCTURES, vol.30, no.9, pp.1801-1811, 2023 (SCI-Expanded)
- VI. **Physical and mechanical properties of laminar composites depending on the production methods: an experimental investigation**  
Uzay Ç., Çetin A., Geren N.  
SADHANA - ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, vol.47, no.4, pp.1-14, 2022 (SCI-Expanded)
- VII. **Automated sizing of automotive steering ball joints in parametric CAD environment using expert knowledge and feature-based computer-assisted 3D modelling**  
Geren N., Akcalı O. O., Ünver E., Allport J.  
ADVANCED ENGINEERING INFORMATICS, vol.52, 2022 (SCI-Expanded)
- VIII. **A method for the optimal design of low-density polymer foam core sandwiches using FEA and multiobjective optimization of design variables**  
Uzay Ç., Acer D. C., Geren N.  
JOURNAL OF POLYMER ENGINEERING, vol.42, no.1, pp.75-84, 2022 (SCI-Expanded)
- IX. **Effect of substrate surface roughness on the wear of molybdenum disulphate coated rolling contact bearings**

Gokce B., GEREN N., İZCİLER M.

MATERIALS TESTING, vol.63, no.9, pp.848-854, 2021 (SCI-Expanded)

- X. **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)
- XI. **The effect of boron carbide additive on the low-velocity impact properties of low-density foam core composite sandwich structures**  
GEREN N., ACER D. C., Uzay C., BAYRAMOĞLU M.  
POLYMER COMPOSITES, vol.42, no.4, pp.2037-2049, 2021 (SCI-Expanded)
- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **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)
- XVII. **Parametric design of automotive ball joint based on variable design methodology using knowledge and feature-based computer assisted 3D modelling**  
GEREN N., AKCALI O. O., BAYRAMOĞLU M.  
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, vol.66, pp.87-103, 2017 (SCI-Expanded)
- XVIII. **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)
- XIX. **EVALUATION OF THE SURFACE ROUGHNESS AND GEOMETRIC ACCURACIES IN A DRILLING PROCESS USING THE TAGUCHI ANALYSIS**  
Kabakli E., BAYRAMOĞLU M., GEREN N.  
MATERIALI IN TEHNOLOGIJE, vol.48, no.1, pp.91-98, 2014 (SCI-Expanded)
- XX. **Systematic mechanical design approach for a flexible printed circuit board assemblies (PCBA) rework cell: part II - conceptual design of soldering and desoldering system**  
GEREN N., SARIGUL C., BAYRAMOĞLU M.  
SOLDERING & SURFACE MOUNT TECHNOLOGY, vol.24, no.3, pp.151-166, 2012 (SCI-Expanded)
- XXI. **Systematic mechanical design approach for a flexible printed circuit board assemblies (PCBA) rework cell: part I - generic mechanical design procedure**  
GEREN N., SARIGUL C., BAYRAMOĞLU M.  
SOLDERING & SURFACE MOUNT TECHNOLOGY, vol.23, no.4, pp.244-256, 2011 (SCI-Expanded)
- XXII. **MATHEMATICAL MODELING FOR PREDICTION AND OPTIMIZATION OF TIG WELDING POOL**

## GEOMETRY

Esme U., KOKANGÜL A., BAYRAMOĞLU M., GEREN N.

METALURGIJA, vol.48, no.2, pp.109-112, 2009 (SCI-Expanded)

- XXIII. **Cost and performance evaluation of different surface treated dies for hot forging process**  
BAYRAMOĞLU M., POLAT H. H., GEREN N.  
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.205, pp.394-403, 2008 (SCI-Expanded)
- XXIV. **Statistical optimization of process parameters to obtain maximum thickness and brightness in chromium plating**  
BAYRAMOĞLU M., ONAT B., GEREN N.  
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.203, pp.277-286, 2008 (SCI-Expanded)
- XXV. **Improvement of a low-cost water jet machining intensifier using reverse engineering and redesign methodology**  
GEREN N., Bayramoglu M., ESME U.  
JOURNAL OF ENGINEERING DESIGN, vol.18, no.1, pp.13-37, 2007 (SCI-Expanded)
- XXVI. **Design of a flexible assembly and remanufacturing cell for advanced SM components: selection of cell design concept based on reflow tools**  
GEREN N., CAKIRCA M., Bayramoglu M.  
SOLDERING & SURFACE MOUNT TECHNOLOGY, vol.18, no.1, pp.29-43, 2006 (SCI-Expanded)
- XXVII. **Simplified design and manufacturing of high pressure components for a low-cost water jet intensifier using redesign methodology**  
GEREN N., Bayramoglu M., TUNC T.  
INTERNATIONAL JOURNAL OF MATERIALS & PRODUCT TECHNOLOGY, vol.21, no.6, pp.505-525, 2004 (SCI-Expanded)
- XXVIII. **Determination and comparison of surface mount component rework cycle times of manual and fully automated robotic rework stations for rework technology selection**  
Geren N.  
IEEE TRANSACTIONS ON ELECTRONICS PACKAGING MANUFACTURING, vol.26, no.2, pp.123-132, 2003 (SCI-Expanded)
- XXIX. **Effects of welding parameters on the quality of resistance spot welded SAE 1010 steel sheet**  
Bayramoglu M., ESME U., GEREN N.  
INTERNATIONAL JOURNAL OF MATERIALS & PRODUCT TECHNOLOGY, vol.19, no.5, pp.362-373, 2003 (SCI-Expanded)
- XXX. **Cost and performance analysis of a robotic rework cell**  
Geren N., REDFORD A.  
INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS, vol.58, no.2, pp.159-172, 1999 (SCI-Expanded)
- XXXI. **Equipment selection, integration and interfacing of a robotic PCBA component rework cell**  
Geren N., Lo E.  
COMPUTER INTEGRATED MANUFACTURING SYSTEMS, vol.11, pp.77-89, 1998 (SCI-Expanded)
- XXXII. **Software architecture of a printed circuit board assembly (PCBA) robotic rework cell**  
Geren N., Chan C., Redford A.  
COMPUTER INTEGRATED MANUFACTURING SYSTEMS, vol.10, no.4, pp.251-259, 1997 (SCI-Expanded)
- XXXIII. **The limits of automating electronic component rework**  
Geren N.  
JOURNAL OF ELECTRONICS MANUFACTURING, vol.7, no.3, pp.225-238, 1997 (SCI-Expanded)
- XXXIV. **Automated rework of printed circuit board assemblies: Methods and procedures**  
Geren N., Redford A.  
INTERNATIONAL JOURNAL OF COMPUTER INTEGRATED MANUFACTURING, vol.9, no.1, pp.48-60, 1996 (SCI-Expanded)
- XXXV. **NONCONTACT TEMPERATURE-MEASUREMENT IN SM COMPONENT REWORK**  
GEREN N.  
JOURNAL OF ELECTRONICS MANUFACTURING, vol.5, no.2, pp.129-136, 1995 (SCI-Expanded)

- XXXVI. **Solder paste dispensing in robotic SMD rework**  
Geren N., EKERE N.  
Soldering and Surface Mount Technology, no.16, pp.21-25, 1994 (SCI-Expanded)

## Articles Published in Other Journals

- I. **ENHANCING THERMAL PROPERTIES OF FIBER-REINFORCED POLYMER COMPOSITES TO BE USED IN BATTERY CASINGS: A REVIEW**  
GÖKCİLER O. C., GEREN N.  
KSÜ Mühendislik Bilimleri Dergisi, vol.27, no.4, pp.1633-1646, 2024 (Peer-Reviewed Journal)
- II. **Compressive Performance of the PVC Foam Materials used as Sandwich Panel Core**  
ÇETİN A., GEREN N.  
Çukurova Üniversitesi Mühendislik Fakültesi dergisi, vol.39, no.2, pp.301-307, 2024 (Peer-Reviewed Journal)
- III. **Volume fraction of retained austenite in 1.2842 tool steel as a function of tempering temperature**  
Günerli E., BAYRAMOĞLU M., GEREN N.  
European Mechanical Science, vol.6, 2022 (Peer-Reviewed Journal)
- IV. **Hybrid Taguchi Based Grey Algorithm for Multi Objective Optimization of Gas Metal Arc Welded DP1000 Steel**  
Karataş M., BAYRAMOĞLU M., EŞME U., GEREN N.  
European Mechanical Science, vol.5, no.4, pp.206-213, 2021 (Peer-Reviewed Journal)
- V. **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)
- VI. **Ticari ve Askerî Elektronik Cihazlarda Kullanılan Yüzeyle Montajlı Yeni Nesil Devre Elemanlarının Tamir Sürecindeki Etkili Faktörler**  
GEREN N., ÇAKIRCA M.  
Savunma Bilimleri Dergisi, vol.1, no.38, pp.211-243, 2020 (Peer-Reviewed Journal)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **Impact Energy Absorption Capacity of Fiber Reinforced Polymer Matrix (FRP) Composites**  
Uzay Ç., Boztepe M. H., Geren N.  
International Journal of Arts & Sciences, vol.9, no.1, pp.211-220, 2016 (Peer-Reviewed Journal)
- XVII. **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)
- XVIII. **Systematic design process of cartoon separating machine**  
Delibaş H., GEREN N.  
Ç.Ü. fen ve Mühendislik Bilimleri Dergisi, vol.28, no.5, pp.170-177, 2012 (Peer-Reviewed Journal)
- XIX. **The use of Composite Materials in Automotive Industry**  
Önşen M., Bayramoğlu M., Geren N.  
Ç.Ü. Fen ve Mühendislik Bilimleri Dergisi, vol.24, no.2, pp.165-174, 2010 (Non Peer-Reviewed Journal)
- XX. **TÜBİTAK Sanayi Araştırma Geliştirme Projeleri Destekleme programı ve İlgili yönetmelikte yapılan Değişikler**  
GEREN N.  
ADASO gazetesi, pp.11-17, 2006 (Non Peer-Reviewed Journal)
- XXI. **Endüstriyel sistemlerde kullanılan elektronik kartların tamiri ve kart tamiri hakkında bilinmesi gerekenler**  
Geren N.  
Metal ve Makine, no.155, pp.402-407, 2005 (Non Peer-Reviewed Journal)
- XXII. **3000 bar Çalışma Basıncılı Çift Etkili Basınç Yükseltici Tasarımı ve İmalatı**  
GEREN N., BAYRAMOĞLU M., Ayseven A., SARIGEÇİLİ M. İ.  
Ç. Ü. Müh. Mimarlık Fakültesi Dergisi, pp.49-53, 2003 (Peer-Reviewed Journal)
- XXIII. **Metal Endüstrisinde Aşındırıcılı Su Jeti Kesme Sistemlerinin Kullanımı ve Kesim Karakteristikleri**  
GEREN N., TUNÇ T.  
Makine ve Metal Teknolojisi, no.118, pp.71-76, 2001 (Peer-Reviewed Journal)
- XXIV. **Yapısal Farklılıklar İçeren Su Jeti Kesme Sistemlerinin En Uygununun Belirlenmesi**  
GEREN N., TUNÇ T.  
Mühendis ve Makina, no.500, pp.42-49, 2001 (Peer-Reviewed Journal)
- XXV. **Basıncılı Kap Tasarım Kodları ve Çatlak Analizi**  
Geren N., Tunç T.  
Mühendis ve Makina, vol.40, no.479, pp.15-22, 1999 (Peer-Reviewed Journal)
- XXVI. **Scara Tipi Endüstriyel Robot Hareketlerinin Bilgisayar Destekli Programlarla Kontrolü**  
GEREN N., ERTÜRK M.  
Makina Tasarım ve İmalat Dergisi, vol.3, no.3, pp.128-133, 1997 (Peer-Reviewed Journal)
- XXVII. **Automated removal and replacement of through-hole components in robotic rework**  
GEREN N., Lo E.

- IEEE transactions on components, packaging and manufacturing technology. Part C. Manufacturing, vol.20, no.3, pp.236-248, 1997 (Scopus)
- XXVIII. **Automated removal and replacement of surface mounted devices in electronic assembly**  
GEREN N.  
IEEE transactions on components, packaging and manufacturing technology. Part C. Manufacturing, vol.20, no.3, pp.227-235, 1997 (Scopus)
- XXIX. **Sert Malzemelerde Su Jeti ile Kesme Teknolojisi**  
ŞAHİN B., GEREN N.  
Makina ve Metal Teknolojisi Dergisi,, vol.39, pp.77-79, 1995 (Peer-Reviewed Journal)
- XXX. **Su Jeti ile Kesme Teknolojisi ve Endüstriyel Uygulamaları**  
GEREN N., ŞAHİN B.  
Mühendis ve Makina Dergisi, vol.35, pp.424-428, 1995 (Peer-Reviewed Journal)
- XXXI. **The Significance of Desoldering and Resoldering Methods in Robotic Automated Rework**  
GEREN N., Redford A. H.  
JOURNAL OF ELECTRONICS MANUFACTURING, vol.4, no.1, pp.41-51, 1994 (Peer-Reviewed Journal)
- XXXII. **Computer-Integrated Automatic PCBA Rework**  
Geren N., Chan C., LO E.  
Integrated Manufacturing Systems, vol.3, no.4, pp.38-43, 1992 (Scopus)
- XXXIII. **Karşıt Döner Silindirli Yerfıstığı Temizleme ve Sınıflandırma Makina Tasarımı**  
AKÇALI İ. D., GEREN N.  
Ç.Ü. Müh. Mim. Fak. Dergisi, vol.2, no.1, pp.145-154, 1987 (Peer-Reviewed Journal)

## Books

- 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
- II. **Makine Mühendisliğine Giriş**  
Geren N. (Editor)  
Papatya Yayıncılık, İstanbul, 2017
- III. **Temel Makine Elemanları**  
GEREN N.  
in: Makine Mühendiliğine Giriş, Necdet Geren, Editor, Papatya Yayıncılık Eğitim A. Ş., İstanbul, pp.369-470, 2017
- IV. **Makine Mühendisliği Mesleği**  
GEREN N.  
in: Makine Mühendisliğine Giriş, Necdet Geren, Editor, Papatya Yayıncılık Eğitim A.Ş., İstanbul, pp.1-64, 2017
- V. **Üniversite-Sanayi İşbirliği Ulusal Kongresi -2008 Bildiriler Kitabı**  
Serbest A. (Editor), Geren N. (Editor), Göktan A. G. (Editor), Kara F. (Editor), Kılıç S. E. (Editor)  
Adana, Adana, 2008
- VI. **Model Based Flexible PCBA Rework Cell Design**  
Geren N.  
in: Computer-Aided Design, Engineering and Manufacturing Systems Techniques and Applications, Cornelius Leondes, Editor, CRC, New York , Florida, pp.1-44, 2001
- VII. **Model Based Flexible PCBA Rework Cell Design, Chapter 6**  
GEREN N.  
in: Computer Aided Design and Manufacturing Systems Techniques and Applications Vol. V, The Design of Manufacturing Systems, Cornelius Leondes, Editor, CRC press LLC, Florida, pp.1-44, 2001

## Papers Published in Refereed Scientific Meetings

- I. **THERMAL MANAGEMENT OF A MULTI-FUNCTIONAL BATTERY CASE**  
Diker İ., Gökciler O. C., Özkan G. M., Acer D. C., Çetin A., Geren N.  
20th INTERNATIONAL CONFERENCE ON MACHINE DESIGN AND PRODUCTION- UMTIK 2024, Ankara, Turkey, 14 - 17 August 2024, vol.1, pp.153-169
- II. **A LIGHTWEIGHT MULTIFUNCTIONAL BATTERY CASE**  
Geren N., Gökciler O. C., İbekci M. B., Uzay Ç., Bayramoğlu M.  
20th INTERNATIONAL CONFERENCE ON MACHINE DESIGN AND PRODUCTION- UMTIK 2024, Ankara, Turkey, 14 - 17 August 2024, vol.1, pp.365-379
- III. **Qualitative Data-Driven Generative Design for Personalized Wearable Scalp Cooling Devices**  
Binder J., UNVER E., Olaosun D., GEREN N.  
Proceedings of CAD'24, Eger, Hungary, July 8-10, 2024, 39-44, 2024 U-turn Press LLC, <http://www.cad-conference.net>, Eger, Hungary, 8 - 10 July 2024, pp.39-44
- IV. **3D PRINTING OF LOW TEMPERATURE FUSIBLE METAL ALLOY IN FDM TYPE 3D PRINTER**  
Delibaş H., Geren N.  
3rd International Congress on 3D Printing (Additive Manufacturing) Technologies and Digital Industry 2018, Antalya, Turkey, 19 - 21 April 2018
- V. **Investigating the Success of a New Systematic Product Design Approach on Example Designs**  
Geren N., Sarıgül Ç., Kavuzlu M. M.  
2nd International Mediterranean Science and Engineering Congress (IMSEC 2017), Adana, Turkey, 25 - 27 October 2017, vol.1, pp.2346-2356
- VI. **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
- VII. **Bending Behavior of Sandwich Structures Having Low Density PVC Foam Cores and  $\pm 450$  Carbon/Epoxy Facings**  
UZAY Ç., GEREN N., BOZTEPE M. H., BAYRAMOĞLU M.  
International Advanced Researches Engineering Congress-2017, Osmaniye, Turkey, 16 - 18 November 2017, vol.1, pp.165-172
- VIII. **Advanced Material Selection Technique For High Strength and Lightweight Spur Gear Design**  
DELİBAŞ H., UZAY Ç., GEREN N.  
IMSEC 2017, Adana, Turkey, 25 - 27 October 2017
- IX. **Bending Behavior of Sandwich Structures Having Low Density PVC Foam Cores and  $\pm 450$  Carbon/Epoxy Facings**  
Uzay Ç., Geren N., Boztepe M. H., Bayramoğlu M.  
International Advanced Researches Engineering Congress-2017, Osmaniye, Turkey, 16 - 18 November 2017
- X. **Improving the Adhesion Bonding Strength for FML Composites by Using Extremely Thin Mesh Steel**  
Boztepe M. H., Bayramoğlu M., Uzay Ç., Geren N.  
2nd International Mediterranean Science and Engineering Congress (IMSEC 2017), Adana, Turkey, 25 - 27 October 2017
- XI. **Impact Strength of Interply and Intraply Hybrid Laminates Based on Carbon-Aramid/Epoxy Composites**  
Uzay Ç., Acer D. C., Geren N.  
2nd International Mediterranean Science and Engineering Congress (IMSEC 2017), Adana, Turkey, 25 - 27 October 2017
- XII. **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

- XIII. **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
- XIV. **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
- XV. **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
- XVI. **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
- XVII. **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
- XVIII. **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
- XIX. **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
- XX. **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
- XXI. **Impact Energy Absorption Capacity of Fiber Reinforced Polymer Matrix FRP Composites**  
Uzay Ç., Boztepe M. H., Geren N.  
Conference of the International Journals of Arts & Sciences, Paris, France, 11 - 14 April 2016, vol.1, pp.211-220
- XXII. **OPTIMUM MATERIAL SELECTION FOR WATER-JET INTENSIFIER**  
Sarıgeçili M. İ., Geren N.  
15th International Materials Symposium (IMSP?2014), Denizli, Turkey, 15 - 17 October 2014, pp.800-810
- XXIII. **Üniversite Sanayi etkileşimi için oluşturulan kurumsal ve model mekanizmalar Bir karşılaştırma**  
Sezer Ç., İŞLER A., Balcı H., Arıcan E., GEREN N.  
USİS 2007, Üniversite-sanayi İşbirliği Sempozyumu, Ana Tema: Yenilik, Patent, Marka ve Rekabet stratejileri, Sakarya, Turkey, 5 - 07 June 2007, vol.1, pp.304-314
- XXIV. **TÜBİTAK Adana Üniversite Sanayi Ortak Araştırma Merkezinde Yaratılan Değerler**  
GEREN N.  
TMMOB Tekstil Mühendisleri Odası Adana Şubesi ve TÜBİTAK Adana ÜSAM, Adana, Turkey, 31 October 2006, vol.1, pp.2-7
- XXV. **TIG KAYNAGINDA KAYNAK DAYANIMININ TAGUCH METODUYLA OPTMZASYONU**  
EŞME U., BAYRAMOĞLU M., GEREN N., SERİN H.  
TMAK-Tasarım malat Analiz Kongresi, Turkey, 26 - 28 April 2006, pp.335-343
- XXVI. **TIG Kaynağında Kaynak Dayanımının Taguchi Metoduyla Optimizasyonu**

- Eşme U., BAYRAMOĞLU M., GEREN N., SERİN H.  
TİMAK-Tasarım İmalat Analizi Kongresi, Balıkesir, Turkey, 26 - 28 April 2006, pp.335-343
- XXVII. **Direnç Nokta Kaynağında Kaynak Parametrelerinin Taguchi Metoduyla Analizi**  
Eşme U., BAYRAMOĞLU M., GEREN N., SERİN H.  
11th International Materials Symposium, Denizli, Turkey, 19 - 21 April 2006, pp.24-28
- XXVIII. **TIG Kaynağındaki Elektrot Uç Geometrisinin Kaynak Havuz Şekline Etkileri**  
Eşme U., BAYRAMOĞLU M., GEREN N., SERİN H.  
Kaynak Teknolojisi V. Ulusal Kongresi1, Kocaeli, Turkey, 11 - 12 November 2005, pp.1-7
- XXIX. **Tıbbi Alet İmalatında Paslanmaz Çelik Kullanımı**  
EŞME U., BAYRAMOĞLU M., GEREN N.  
I. Ulusal Tıbbi Cihazlar İmalatı Sanayi Kongre ve Sergisi, TMMOB Makina Mühendisleri Odası, Samsun, Turkey, 30 September - 02 October 2005, vol.1
- XXX. **Direnç Nokta Kaynağında Elektrot Baskı Kuvveti ve Uç Geometrisinin Temas Direncine Etkileri**  
EŞME U., BAYRAMOĞLU M., GEREN N.  
TMMOB Makina Mühendisleri Odası Konya Şubesi, III. Makina Tasarım ve İmalat Teknolojileri Kongresi, Konya, Turkey, 16 - 17 September 2005, vol.1, pp.311-319
- XXXI. **Makine Parçalarının Tasarımında Yüzey Kaplama Tekniklerinin Yorulma Dayanımına olan Etkilerinin İncelenmesi**  
GEREN N., Baysal M. M.  
4. GAP Mühendislik Kongresi, Şanlıurfa, Turkey, 6 - 08 June 2002, vol.1, pp.394-400
- XXXII. **Su Jeti Kesme Teknolojisindeki Son Gelişmeler Yeni Yönelimler ve Ülkemizdeki Durumu**  
GEREN N., Tural M.  
4. GAP Mühendislik Kongresi, Şanlıurfa, Turkey, 6 - 08 June 2002, vol.1, pp.386-393
- XXXIII. **Uzman Sistem Geliştirme Araçları ve Mühendislik Uygulamalarında Seçimi**  
GEREN N., Baysal M. M.  
MATİT (Makine Tasarım ve İmalat Teknolojileri Kongresi, Konya, Turkey, 2 - 03 November 2001, vol.1, pp.241-252
- XXXIV. **Makina Mühendisliğinde Kullanılan Ticari ve Prototip Uzman Sistem Yazılımları**  
Baysal M. M., GEREN N.  
Makine Tasarım ve İmalat Teknolojileri Kongresi (MATİT), Konya, Turkey, 2 - 03 November 2001, vol.1, pp.241-251
- XXXV. **Su jeti Kesme Sistemlerinde Kullanılan Basınç Arttırıcılarda Gerilme Analizleri ve Tasarım Sınırları**  
Geren N.  
UMTİK 2000 - 9. Uluslar arası Makina Tasarım ve İmalat Kongresi, Ankara, Turkey, 13 - 15 September 2000, vol.1, no.1, pp.1-10
- XXXVI. **Integration and Automation of a Water Jet Cutting System**  
Geren N., Bayramoğlu M., Şahin B., Baysal M., Tunç T.  
8. International Conference on Manufacturing and Design, Ankara, Turkey, 9 - 11 September 1998, pp.619-628
- XXXVII. **Jet Cutting System and its Problems**  
Geren N., Şahin B., Bayramoğlu M., Kırbaş S.  
8. International Conference on Manufacturing and Design, Ankara, Turkey, 1 - 03 January 1998, pp.619-628
- XXXVIII. **Ç Ü Makine Mühendisliği Bölümünde Öğretim ve Araştırmanın Dünü Bugünü ve Geleceği**  
Şahin B., Yılmaz T., Geren N.  
TMMOB Makina Müh. Odası, III Ulusal Makina Mühendisliği ve Eğitimi Sempozyumu, İstanbul, Turkey, 16 - 17 October 1997, pp.126-139
- XXXIX. **Sistem Model Temelli Esnek Tamir sistemi Tasarımı**  
Geren N.  
ZIS 96, Birinci Ulusal Zeki İmalat Sistemleri Sempozyumu, Sakarya, Turkey, 30 - 31 May 1996, vol.1, no.1, pp.38-54
- XL. **Integration and Interfacing of a Robotic PCBA Rework Cell**  
GEREN N., REDFORD A.  
6 th International Machine Design and Production Conference, Ankara, Turkey, 21 - 23 September 1994, pp.397-406

- XLI. Karşıt Döner Silindirli Yerfıstığı Temizleme ve Sınıflandırma Makinası Tasarımı**  
AKÇALI İ. D., GEREN N.  
Ç.Ü. Müh. Mim. Fak. Seminer Haftası, Adana, Turkey, 1 - 03 June 1987
- XLII. Kuvvet Büyüten Bir Dört-Çubuk Mekanizmasının Bilgisayarla Tasarımı**  
AKÇALI İ. D., GEREN N.  
2. Ulusal Makine Tasarım ve İmalat Kongresi, ODTÜ, Ankara, Turkey, 1 - 03 September 1986, pp.71-81

## Supported Projects

- GEREN N., TÜRKGENÇ O., Project Supported by Higher Education Institutions, Çeşitli mikro kanal kesit geometrilerine sahip Karbon Elyaf Takviyeli kompozitlerin darbe ve eğilme davranışlarının belirlenmesi (Determination of Impact and Flexural Behaviors of Carbon Fiber Reinforced Composites with Various Micro Channel Section Geometry), 2024 - Continues
- GEREN N., GÖKCİLER O. C., GÖKCİLER O. C., Project Supported by Higher Education Institutions, Çeşitli kanal çaplarına sahip kompozitlerin darbe ve eğilme dayanımı davranışları Impact and bending behaviours of composites with various channel diameters, 2024 - Continues
- GEREN N., GÖKCİLER O. C., ÇETİN A., BAYRAMOĞLU M., UZAY Ç., ÖZKAN G. M., ACER D. C., DİKER İ., İBEKÇİ M. B., Project Supported by Higher Education Institutions, GÜVENLİ VE SÜRDÜRÜLEBİLİR ENERJİ DEPOLAMA İÇİN KENDİ KENDİNİ TAMİR EDEBİLEN VE AKTİF TERMAL YÖNETİM SİSTEMİNİ BÜNYESİNDE BARINDIRAN BİR BATARYA PAKET SİSTEMİNİN GELİŞTİRİLMESİ, 2024 - Continues
- GEREN N., KARALAR M., UZAY Ç., İbekçi M. B., ÇETİN A., ACER D. C., BAYRAMOĞLU M., Project Supported by Higher Education Institutions, Farklı çekirdek yoğunluğuna sahip sandviç yapıların tasarımı üretimi ve çevresel koşullara bağlı olarak mekanik özelliklerinin araştırılması, 2023 - Continues
- GEREN N., ACER D. C., Project Supported by Higher Education Institutions, The Effect of Wire Mesh Sheets on the Fatigue Properties of CFRP/PVC Foam Sandwich Panels, 2022 - 2025
- GEREN N., TURGUT G., Project Supported by Higher Education Institutions, Evolvent konik dişli tasarım yaklaşımlarının kıyaslanması (A Comparison of Approaches To Involute Bevel Gear Design), 2017 - 2025
- GEREN N., Koştur E., Project Supported by Higher Education Institutions, Development of Self Healing and Electrical Conductivity Functions of Composite Structures with Nanomaterial Additives, 2022 - 2024
- GEREN N., ERCAN E. O., Project Supported by Higher Education Institutions, The effect of additives on flexural and flame retardant properties of carbon fiberepoxy sandwich structures, 2022 - 2023
- GEREN N., Üzer A., Project Supported by Higher Education Institutions, INVESTIGATION OF MATERIAL SHAPE FACTOR EFFECTS ON STRUCTURE OF A SIDE BODY OF A BUS, 2021 - 2023
- GEREN N., UZAY Ç., BAYRAMOĞLU M., ÇETİN A., ACER D. C., UZAY Ç., TÛTÛNCÛ N., Project Supported by Higher Education Institutions, Sanviç Panellerin Eğilme Yükleri Altındaki Mekanik Özelliklerinin Analitik Yöntemlerle ve Deneysel Testlerle Belirlenmesi, 2020 - 2023
- GEREN N., DELİBAŞ H., Project Supported by Higher Education Institutions, Yeni bir sac metal şekillendirme tekniğinin düşük erime noktasına sahip alaşımlar ve 3D yazıcı kullanarak geliştirilmesi, 2015 - 2022
- GEREN N., Oğulata M. O., Project Supported by Higher Education Institutions, EĞRİSEL KONİK DIŞLI TASARIMI İÇİN ÇEŞİTLİ DIŞLI TASARIM YAKLAŞIMLARININ ORANLANMASI VE DÖNÜŞÜM FAKTÖRLERİNİN BULUNMASI (RATINGS OF VARIOUS GEAR DESIGN APPROACHES AND A TRANSLATION TECHNIQUE FOR SPIRAL BEVEL GEAR DESIGN), 2018 - 2020
- GEREN N., ACER D. C., Project Supported by Higher Education Institutions, Katkı Malzemelerinin Düşük Yoğunluklu Fiber Sandviç Panellerdeki Düşük Hızlı Darbe Özelliklerine Etkisi (The Effect of Additives on the Low Velocity Impact Properties of Low Density Fiber Sandwich Panels), 2018 - 2020
- GEREN N., TOPAL Z. D., Project Supported by Higher Education Institutions, Helisel dişli tasarımı yaklaşımlarının karşılaştırılması (A Comparison of Approaches To Involute Helical Gear Design), 2017 - 2020
- 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

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

GEREN N., KAVUZLU M. M., Project Supported by Higher Education Institutions, Yeni bir sistematik ürün tasarım yaklaşımı başarısının örnek tasarımlar ile incelenmesi, 2016 - 2016

## Patent

Geren N., Kendini Tamir Etme Özellikli, Polimer Matrisli, Elyaf Takviyeli Kompozit Basınçlı Kap/Tank Ve Rüzgar Türbini Kanatlarının Üretim Yöntemi, Patent, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: 2024/007689 , Standard Registration, 2025

Geren N., PRODUCTION METHOD FOR SELF-REPAIRING, POLYMER MATRIX, FIBRE REINFORCED COMPOSITE PRESSURE VESSEL/TANK AND WIND TURBINE BLADES, Patent, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: PCT/TR2024/050885 , Standard Registration, 2025

Geren N., Aslan F., İş Makinaları için Yaylı Enerji Geri Dönüşüm Tertibatı, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2020/19189 , Standard Registration, 2024

Geren N., Koştur E., WEAVING OF FILAMENT YARNS TO FORM MICROVASCULAR CHANNELS IN FIBER FABRIC FOR FIBER REINFORCED POLYMER COMPOSITE PRODUCTION, Patent, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: PCT/TR2023/051362 , Standard Registration, 2024

Geren N., Bayramoğlu M., Özkan G. M., Uzay Ç., Çetin A., Acer D. C., Diker İ., İbekci M. B., Termal Yönetim Ve Kendini İyileştirme (Tamir Etme) Özellikli Kompozit Batarya Muhafaza Kutusu, Patent, CHAPTER H Electricity, The Invention Registration Number: 2024/002940 , Standard Registration, 2024

Geren N., Bayramoğlu M., Özkan G. M., Uzay Ç., Çetin A., Acer D. C., Diker İ., İbekci M. B., COMPOSITE BATTERY ENCLOSURE WITH THERMAL MANAGEMENT AND SELF-HEALING (REPAIRING) FEATURES, Patent, CHAPTER H Electricity, The Invention Registration Number: PCT/TR2024/050272 , Standard Registration, 2024

Geren N., HAVA VE UZAY ARAÇLARINDA KULLANILAN KOMPOZİT UYGULAMALARI İÇİN YÜKSEK DAYANIMLI ELYAFLA BİRLİKTE MONOFİLAMENT İPLİK İÇEREN ARA KATMANLAR, Patent, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: 2023/016248 , Standard Registration, 2024

Geren N., Koştur E., FİBER TAKVİYELİ POLİMER KOMPOZİT ÜRETİMİNDE MİKROVASKÜLER KANAL OLUŞTURAN İPLİKLERİN ELYAF İÇİNE DOKUNMASI, Patent, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: 2022/021969 , Standard Registration, 2024

Geren N., HIGH STRENGTH FIBER USED IN AIR AND SPACE VEHICLES CONTAINING MONOFILAMENT YARN INTERLAYERS FOR COMPOSITE APPLICATIONS, Patent, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: TR2023/051491 , Standard Registration, 2024

## Contractual Researches

Geren N., Koştur E., Türk Uçak Sanayii Anonim Ortaklığı (TUSAŞ), Nano Malzeme Katkılı Çok Fonksiyonlu Kompozit Yapıların Geliştirilmesi, 2022 - 2023

## Activities in Scientific Journals

## Metrics

Publication: 118

Citation (WoS): 108

Citation (Scopus): 223

H-Index (WoS): 7

H-Index (Scopus): 8

## Scholarships

YÖK yurtdışı lisansüstü eğitim Bursu, YOK, 1988 - 1993

YÖK Yurt Dışı Yabancı Dil Eğitim Bursu, YOK, 1988 - 1988

## Awards

Çetin A., Uzay Ç., Tütüncü N., Geren N., Uluslararası Bilimsel Yayınları teşvik programı/Predicting the indentation load of FRP facesheet / foam core sandwiches, Tübitak, January 2025

Geren N., TÜBİTAK-ULAKBİM Uluslararası Bilimsel Yayınları Teşvik Programı/, Automated sizing of automotive steering ball joints in parametric CAD environment using expert knowledge and feature-based computer-assisted 3D modelling, Ulakbim Tübitak, July 2023

Geren N., Bayramoğlu M., Akçalı O. O., Parametric design of automotive ball joint based on variable design methodology using knowledge and feature-based computer assisted 3D modelling, Tübitak-Ulakhim Uluslararası Bilimsel Yayınları Teşvik Programı, March 2018

Geren N., Bayramoğlu M., Sarıgül Ç., Systematic mechanical design approach for a flexible printed circuit board assemblies (PCBA) rework cell: part II - conceptual design of soldering and desoldering system, Tübitak-Ulakhim Uluslararası Bilimsel Yayınları Teşvik Programı, May 2013

Geren N., Bayramoğlu M., Sarıgül Ç., Systematic mechanical design approach for a flexible printed circuit board assemblies (PCBA) rework cell: part I - generic mechanical design procedure, Tübitak-Ulakhim Uluslararası Bilimsel Yayınları Teşvik Programı, December 2011

Geren N., Bayramoğlu M., Onad B., Statistical optimization of process parameters to obtain maximum thickness and brightness in chromium plating, Tübitak-Ulakhim Uluslararası Bilimsel Yayınları Teşvik Programı, July 2008

Geren N., Bayramoğlu M., Polat H., Cost and performance evaluation of different surface treated dies for hot forging process, Tübitak-Ulakhim Uluslararası Bilimsel Yayınları Teşvik Programı, July 2008

Geren N., Bayramoğlu M., Eşme U., Improvement of a low-cost water jet machining intensifier using reverse engineering and redesign methodology, Tübitak-Ulakhim Uluslararası Bilimsel Yayınları Teşvik Programı, June 2007

Geren N., Bayramoğlu M., Çakırca M., Design of a flexible assembly and remanufacturing cell for advanced SM components: selection of cell design concept based on reflow tools, Tübitak-Ulakhim Uluslararası Bilimsel Yayınları Teşvik Programı, June 2006

Geren N., Bayramoğlu M., Tunç T., Simplified design and manufacturing of high pressure components for a low-cost water jet intensifier using redesign methodology, Tübitak-Ulakhim Uluslararası Bilimsel Yayınları Teşvik Programı, December 2004

Geren N., Eşme U., Bayramoğlu M., Effects of Welding Parameters on the Quality of Resistance Spot Welded SAE 1010 Steel Sheet, Tübitak-Ulakhim Uluslararası Bilimsel Yayınları Teşvik Programı, July 2003

Geren N., Cost and performance analysis of a Robotic Rework Cell, Tübitak-Ulakhim Uluslararası Bilimsel Yayınları Teşvik Programı, April 1999

Geren N., Equipment Selection, Integration and Interfacing of a Robotic PCBA Component Rework Cell, Tübitak-Ulakhim

Uluslararası Bilimsel Yayınları Teşvik Programı, November 1998

Geren N., Software Architecture of a Printed Circuit Board Assembly (PCBA) Robotic Rework Cell, Tübitak-Ulakbim

Uluslararası Bilimsel Yayınları Teşvik Programı, June 1998

Geren N., Automated Rework of Printed Circuit Board Assemblies: Methods and Procedures, Tübitak-Ulakbim

Uluslararası Bilimsel Yayınları Teşvik Programı, December 1996

Geren N., Non-Contact Temperature Measurement in SM Component Rework, Tübitak-Ulakbim Uluslararası Bilimsel Yayınları Teşvik Programı, November 1995

Geren N., Overseas Research Student Award, The Committee Of Vice-Chancellors And Principal Of The Universities Of The United Kingdom, July 1991

## **Non Academic Experience**

Ç.Ü. Teknokent / Adana ÜSAM, Proje koordinatör yardımcısı

TÜBİTAK Adana Üniversite-Sanayi Ortak Araştırma Merkezi, Merkez Müdürü

TÜBİTAK Adana Üniversite-Sanayi Ortak Araştırma Merkezi, Merkez danışmanı