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### **Personal Information**

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### **International Researcher IDs**

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Publons / Web Of Science ResearcherID: F-1573-2018

Yoksis Researcher ID: 3081

### **Education Information**

Doctorate, The University of Birmingham, School Of Manufacturing And Mechanical Engineering, Mechanical Engineering, United Kingdom 1988 - 1992

Postgraduate, Cukurova University, Mühendislik Mimarlık Fakültesi, Makine Mühendisliği, Turkey 1982 - 1984

Undergraduate, Middle East Technical University, Gaziantep Mühendislik Fakültesi, Makine Mühendisliği, Turkey 1977 - 1982

### **Foreign Languages**

English, C1 Advanced

### **Dissertations**

Doctorate, Systematic Investigation on the Use of Simple Tooling on CNC EDM Machines, The University of Birmingham, School Of Manufacturing And Mechanical Engineering, Mechanical Engineering, 1992

Postgraduate, Petro-Kimya Tesislerinde Korozyon ve Önlenmesi, Cukurova University, Mühendislik Mimarlık Fakültesi, Makine Mühendisliği, 1984

### **Research Areas**

Mechanical Engineering, Computer Aided Design and Manufacturing, Non-traditional manufacturing methods, Welding Methods, Material, Plastic Forming Methods, Machining Methods, Engineering and Technology

### **Academic Titles / Tasks**

Professor, Cukurova University, Mühendislik Fakültesi, Makina Müh., 2003 - Continues

Associate Professor, Cukurova University, Mühendislik Fakültesi, Makina Müh., 1997 - 2003

Assistant Professor, Cukurova University, Mühendislik Fakültesi, Makina Müh., 1993 - 1997

## Academic and Administrative Experience

Cukurova University, Mühendislik Mimarlık, Makine, 2013 - Continues

Cukurova University, Mühendislik Mimarlık, Makine Mühendisliği, 1993 - 2013

Cukurova University, Mühendislik Mimarlık, Makine Mühendisliği, 2003 - 2006

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

- I. **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)
- II. **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, no. , pp.1-16, 2023 (SCI-Expanded)
- III. **Combined impacts of thickness and bending angle on springback of 1000DP steel sheets**  
KARALAR M., BAYRAMOĞLU M.  
IRONMAKING & STEELMAKING, vol.49, no.7, pp.693-698, 2022 (SCI-Expanded)
- IV. **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)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **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)
- XII. **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-MATERIALS AND COMPONENTS TECHNOLOGY AND APPLICATION, vol.59, no.4, pp.366-371, 2017 (SCI-Expanded)

- XIII. **EVALUATION OF THE SURFACE ROUGHNESS AND GEOMETRIC ACCURACIES IN A DRILLING PROCESS USING THE TAGUCHI ANALYSIS**  
Kabaklı E., BAYRAMOĞLU M., GEREN N.  
MATERIALI IN TEHNOLOGIJE, vol.48, no.1, pp.91-98, 2014 (SCI-Expanded)
- XIV. **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)
- XV. **MULTI-OBJECTIVE OPTIMIZATION OF THE CUTTING FORCES IN TURNING OPERATIONS USING THE GREY-BASED TAGUCHI METHOD**  
KAZANÇOĞLU Y., EŞME U., BAYRAMOĞLU M., GÜVEN O., ÖZGÜN S.  
MATERIALI IN TEHNOLOGIJE, vol.45, no.2, pp.105-110, 2011 (SCI-Expanded)
- XVI. **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)
- XVII. **Temperature Distribution of Multipass TIG Welded AISI 304 L Stainless Steel**  
Esme U., Bayramoglu M., Serin H., Guven O., Aydin H., Kazancoglu Y.  
MATERIALS TESTING, vol.53, pp.42-47, 2011 (SCI-Expanded)
- XVIII. **OPTIMIZATION OF WELD BEAD GEOMETRY IN TIG WELDING PROCESS USING GREY RELATION ANALYSIS AND TAGUCHI METHOD**  
Esme U., BAYRAMOĞLU M., Kazancoglu Y., Ozgun S.  
MATERIALI IN TEHNOLOGIJE, vol.43, no.3, pp.143-149, 2009 (SCI-Expanded)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **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)
- XXIII. **Design of a flexible assembly and remanufacturing cell for advanced SM components: selection of cell design concept based on reflow tools**  
GEREN N., ÇAKIRCA M., Bayramoglu M.  
SOLDERING & SURFACE MOUNT TECHNOLOGY, vol.18, no.1, pp.29-43, 2006 (SCI-Expanded)
- XXIV. **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)
- XXV. **Improvements on surface quality of EDMED surfaces**

- Bayramoglu M., DUFFILL A.  
SURFACE ENGINEERING, vol.19, no.1, pp.70-74, 2003 (SCI-Expanded)
- XXVI. **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)
- XXVII. **A systematic investigation on the use of force ratios in tool condition monitoring for turning operations**  
Bayramoglu M., DUNGEL U.  
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, vol.20, no.2, pp.92-97, 1998 (SCI-Expanded)
- XXVIII. **MANUFACTURING LINEAR AND CIRCULAR CONTOURS USING CNC EDM AND FRAME TYPE TOOLS**  
BAYRAMOĞLU M., DUFFILL A.  
INTERNATIONAL JOURNAL OF MACHINE TOOLS & MANUFACTURE, vol.35, no.8, pp.1125-1136, 1995 (SCI-Expanded)
- XXIX. **SYSTEMATIC INVESTIGATION ON THE USE OF CYLINDRICAL TOOLS FOR THE PRODUCTION OF 3D COMPLEX SHAPES ON CNC EDM MACHINES**  
BAYRAMOĞLU M., DUFFILL A.  
INTERNATIONAL JOURNAL OF MACHINE TOOLS & MANUFACTURE, vol.34, no.3, pp.327-339, 1994 (SCI-Expanded)

## Articles Published in Other Journals

- I. **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)
- II. **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)
- 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. **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)
- V. **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)
- VI. **3000 bar Çalışma Basıncılı Çift Etkili Basıncı 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)
- VII. **Development of A Computer Program For the Optimization ofCutting Parameters in Turning Operations**  
BAYRAMOĞLU M., Özbaran O.  
A.M.S.E. Advances in Modelling & Analysis, vol.56, no.4, 2001 (Peer-Reviewed Journal)
- VIII. **Dalma elektro erozyon tezgahları ve nümerik kontrol**

## Refereed Congress / Symposium Publications in Proceedings

- I. **THE EFFECT OF USING STEEL MESH ON THE INTERLAMINAR FRACTURE TOUGHNESS OF FML COMPOSITES**  
Akeloğlu M. A., Bayramoğlu M.  
The 3rd International Conference of Materials and Engineering Technology (TICMET'21), Gaziantep, Turkey, 5 - 06 November 2021, pp.109-116
- II. **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, vol.1, pp.165-172
- 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. **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
- V. **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
- VI. **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
- VII. **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
- VIII. **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
- IX. **THE EFFECT OF PROCESS PARAMETERS ON THE ABRASIVE WEAR RESISTANCE OF BORONIZED AISI 1050 STEEL**  
BOZTEPE M. H., BAYRAMOĞLU M.  
ASME International Mechanical Engineering Congress and Exposition (IMECE2016), Arizona, United States Of America, 11 - 17 November 2016
- X. **INVESTIGATION OF TENSILE BEHAVIOR OF WOVEN CARBON GLASS AND HYBRID FIBER COMPOSITES**  
BOZTEPE M. H., UZAY Ç., BAYRAMOĞLU M.  
International Journal of Arts & Sciences (IJAS), 11 - 14 April 2016, vol.9, pp.191-196
- XI. **The Effect Of Processes Parameter On The Abrasive Wear Resistance Of Boronized AISI 1050 Steel**  
BOZTEPE M. H., BAYRAMOĞLU M.

- XII. **Adhesion Surface Bonding Capability of Different Metal Sheets for Fiber Metal Laminate (FML) Applications**  
BAYRAMOĞLU M., GEREN N., BOZTEPE M. H., UZAY Ç.  
International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Turkey, 26 - 28 October 2016, pp.3877-3883
- XIII. **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
- XIV. **Optimization of process parameter of boronized AISI 10150 steel using the Taguchi analysis**  
BOZTEPE M. H., BAYRAMOĞLU M.  
17th International Conference on Machine Design and Production, 12 - 15 July 2016, pp.2015-217
- XV. **Galetaj İşleminin Taguchi Tabanlı Gri İlişki Çözümlemesi ile Optimizasyonu**  
EŞME U., BAYRAMOĞLU M., AYDIN H.  
2. Mühendislik ve Teknoloji Sempozyumu, Ankara, Turkey, 30 April - 01 May 2009, pp.205-216
- XVI. **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
- XVII. **TIG KAYNAGINDA KAYNAK DAYANIMININ TAGUCHI METODUYLA OPTİMİZASYONU**  
EŞME U., BAYRAMOĞLU M., GEREN N., SERİN H.  
TMAK-Tasarım İmalat Analiz Kongresi, Turkey, 26 - 28 April 2006, pp.335-343
- XVIII. **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
- XIX. **TIG Kaynağındaki Elektrot Uç Geometrisinin Kaynak Havuz Şekline Etkileri**  
Eşme U., BAYRAMOĞLU M., GEREN N., SERİN H.  
Kaynak Teknolojisi V. Ulusal Kongresi, Kocaeli, Turkey, 11 - 12 November 2005, pp.1-7
- XX. **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
- XXI. **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
- XXII. **Integration of Computer Aided Design and Computer Aided Manufacturing**  
BAYRAMOĞLU M., BİRCAN D. A.  
2nd International Conference on Responsive Manufacturing, Gaziantep, Turkey, 26 - 28 June 2002, pp.187-198
- XXIII. **The Use of Genetic Algorithm in Computer Aided Process Planning of Rotational Parts**  
BAYRAMOĞLU M., BİRCAN D. A.  
II. Makine Malzemesi ve İmalat Teknolojisi Sempozyumu, Manisa, Turkey, 7 - 09 November 2001, pp.723-731
- XXIV. **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
- XXV. **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
- XXVI. **Why Computerized Numerical Control (CNC) Electro Discharge Machine (EDM)**  
Duffill A. W., BAYRAMOĞLU M.

Advances in Manufacturing Technology IX, Leicester, United Kingdom, 12 - 14 September 1995, pp.7-11

XXVII. **Production of 3 dimensional shapes using computational electro discharge machinin (EDM)**

BAYRAMOĞLU M., Duffill A. W.

Proceedings of the twenty-ninth international Matador conference, Londrina, Brazil, 6 - 07 April 1992, pp.107-114

## **Supported Projects**

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

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

## **Metrics**

Publication: 66

Citation (WoS): 178

Citation (Scopus): 291

H-Index (WoS): 7

H-Index (Scopus): 9

## **Non Academic Experience**

Çukurova Üniversitesi