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Publons / Web Of Science ResearcherID: Q-1581-2019

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Biography

Lisans eğitimini 1990 yılında Dokuz Eylül Üniversitesi, Makina Mühendisliği Bölümünde tamamlamıştır. 1998 yılında Yardımcı Doç. Dr., 2010 yılında Doçent Dr. ve 2015 yılında Prof. Dr. ünvanlarını almıştır.

Education Information

Doctorate, Dokuz Eylül University, Fen Bilimleri Enstitüsü, Mekanik (Dr), Turkey 1993 - 1998

Postgraduate, Dokuz Eylül University, Fen Bilimleri Enstitüsü, Mekanik (YI) (Tezli), Turkey 1990 - 1993

Undergraduate, Dokuz Eylül University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 1985 - 1990

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Strength mis-match effects on fracture behavior of structural steel welds, Dokuz Eylül University, Fen Bilimleri Enstitüsü, Mekanik (Dr), 1998

Postgraduate, Characterization of the fatigue behaviors of offshore hyperbaric welds, Dokuz Eylül University, Fen Bilimleri Enstitüsü, Mekanik (YI) (Tezli), 1993

Research Areas

Engineering and Technology

Academic Titles / Tasks

Professor, Dokuz Eylul University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 2015 - Continues
Associate Professor, Dokuz Eylul University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 2010 - 2015
Assistant Professor, Dokuz Eylul University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 1998 - 2010

Academic and Administrative Experience

Dokuz Eylul University, 2017 - 2017

Courses

Teknik İngilizce II, Undergraduate, 2023 - 2024
Dinamik, Undergraduate, 2023 - 2024
Fatigue, Postgraduate, 2022 - 2023
Statics, Undergraduate, 2022 - 2023
Bitirme Projesi, Undergraduate, 2022 - 2023
Teknik İngilizce II, Undergraduate, 2023 - 2024
Dinamik, Undergraduate, 2023 - 2024
Dinamik, Undergraduate, 2023 - 2024
Bitirme Projesi, Undergraduate, 2022 - 2023
Yorulma, Postgraduate, 2022 - 2023
Malzemelerin İleri Mukavemeti, Postgraduate, 2023 - 2024
Statics, Undergraduate, 2022 - 2023
Dynamics, Undergraduate, 2022 - 2023
Advanced Strength of Materials, Postgraduate, 2022 - 2023
Dynamics, Undergraduate, 2022 - 2023
Araştırma Projesi, Undergraduate, 2022 - 2023
Araştırma Projesi, Undergraduate, 2022 - 2023
Technical English I, Undergraduate, 2022 - 2023
Technical English I, Undergraduate, 2022 - 2023

Advising Theses

YENİ Ç. E., YENİ E., Determination of the fatigue behaviors of cardan shafts used in heavy duty vehicles by numerical and experimental methods and establishing the parameters for the enhancement of their fatigue strengths, Doctorate, M.ÖZBAKIŞ(Student), 2023
Yeni Ç. E., DYNAMIC FRICTION BEHAVIOR OF HIGH STRENGTH COMPOSITE MATERIALS, Postgraduate, E.KIZILAY(Student), 2023
YENİ Ç. E., Effects of design parameters on the fatigue behavior of leaf springs used in commercial vehicles, Postgraduate, M.YANMAZ(Student), 2021
YENİ Ç. E., IMPROVEMENT OF BENDING AND IMPACT BEHAVIORS OF HONEYCOMB SANDWICH COMPOSITES, Postgraduate, M.FATİH(Student), 2020
YENİ Ç. E., Yağ pompası kapaklarının kalınlığının sonlu eleman yöntemi ile belirlenmesi, Postgraduate, F.ÖZGE(Student), 2019
YENİ Ç. E., Effect of natural fiber wastes on polyolefin and thermoplastic based materials, Postgraduate, F.ANZER(Student), 2019
YENİ Ç. E., Investigation of fatigue behavior in outer tie rods in passenger cars, Postgraduate, D.ZERKİN(Student), 2019
YENİ Ç. E., Değişken yüklemeye altında sürtünme karıştırma kaynaklı benzer ve farklı metal matris kompozitlerin incelenmesi, Doctorate, N.ÖZTOPRAK(Student), 2018

- YENİ Ç. E., Alüminyum alaşımlar ile polimerler arasındaki benzer ve hibrit sürtünme nokta kaynaklı bağlantıların mekanik özelliklerinin araştırılması, Postgraduate, M.BOZKURT(Student), 2017
- YENİ Ç. E., processing cost effect, Postgraduate, D.KAHYA(Student), 2016
- YENİ Ç. E., Soğuk dövme kalıpları yüzey koşullarının kalıp ömrü/işleme maliyeti etkisi yönünden incelenerek optimize edilmesi, Postgraduate, D.KAHYA(Student), 2016
- YENİ Ç. E., Design and numerical fatigue analysis of double horizontal directional suspension system, Postgraduate, U.ÇOBAN(Student), 2015
- YENİ Ç. E., Ortak raylı enjeksiyon sistemlerinde sistem basıncı altında ray tasarımı ve analiz parametrelerinin belirlenmesi, Postgraduate, E.GÜŞAV(Student), 2014
- YENİ Ç. E., Effect of various fiber mixture combinations on the mechanical properties of polyamide 6 and 6.6 materials, Postgraduate, C.GÖNENLİ(Student), 2014
- YENİ Ç. E., Investigation of the effect of glass fiber reinforcement on hot plate welding of polyamid based materials, Postgraduate, U.EMRAH(Student), 2013
- YENİ Ç. E., Computer analysis of the effect of cold sprue entrance on the internal stress distribution in plastic injection mould design, Postgraduate, E.SAYGILI(Student), 2013
- YENİ Ç. E., Investigation of laser beam welded aluminium alloy joints in terms of strength and fracture mechanics, Doctorate, U.ÖZDEMİR(Student), 2012
- YENİ Ç. E., Mukavemet uyumsuzluğu olan kaynaklı bağlantıların kırılma davranışı, Postgraduate, U.ÇEVİK(Student), 2008

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation of the similarity between physical tests and fatigue simulation of flange yoke made of C45 E material used in cardan shafts**
Untersuchung der Vergleichbarkeit zwischen physikalischen Versuchen und Ermüdungssimulation von in Gelenkwellen verwendeten Flanschmitnehmern aus dem Werkstoff C45 E
Ozbakis M., Yeni E. C., Kahyalar M. C.
MATERIALWISSENSCHAFT UND WERKSTOFFTECHNIK, vol.53, no.7, pp.798-807, 2022 (SCI-Expanded)
- II. **Effects of various tool plunge depths on microstructure evolution, mechanical properties and dome structure features of friction stir spot welded AA5052-H32 similar joints**
Auswirkungen verschiedener Eintauchtiefen des Werkzeugs auf die Entwicklung von Gefüge, mechanischen Eigenschaften und Eigenschaften der Kuppelstruktur von ruhrreibpunktgeschweissten Verbindungen der Aluminiumlegierung (AA5052-H32)
Bozkurt M., Oztoprak N., Sayer S., Yeni Ç. E.
MATERIALWISSENSCHAFT UND WERKSTOFFTECHNIK, vol.51, no.10, pp.1398-1411, 2020 (SCI-Expanded)
- III. **Dissimilar Friction Stir Butt Welding of AA6061-T6 and AA6061/SiCp Composite: Microstructural Characteristics, Impact Toughness, Hardness, Strength Under Transverse Impact**
Öztoprak N., Yeni Ç. E., Gören Kiral B.
TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS, vol.72, no.2, pp.511-521, 2019 (SCI-Expanded)
- IV. **Fatigue and monotonic tensile behaviors of friction stir welded AA6061/SiC/20p-T1 composite joints at various tool rotation speeds**
Öztoprak N., Yeni Ç. E., Gören Kiral B.
MATERIALS RESEARCH EXPRESS, vol.5, no.6, 2018 (SCI-Expanded)
- V. **Optimization of welding parameters of hot plate welded PC/ABS blends by using the Taguchi experimental design method**
Ulker A., ÖZTOPRAK N., SAYER S., Yeni Ç. E.
JOURNAL OF ELASTOMERS AND PLASTICS, vol.50, no.2, pp.162-181, 2018 (SCI-Expanded)
- VI. **Effects of post-weld heat treatment on the microstructural evolution and mechanical properties of dissimilar friction stir welded AA6061+SiCp/AA6061-O joint**
Öztoprak N., Yeni Ç. E., Gören Kiral B.
LATIN AMERICAN JOURNAL OF SOLIDS AND STRUCTURES, vol.15, no.8, 2018 (SCI-Expanded)

- VII. **Mathematical Modelling of Vibration Response Characteristics for Dissimilar Hot Plate Welded Polyamide 6 Composite Beams**
Kara M., ÖZTOPRAK N., SEÇGİN A., Sayer S., Yeni Ç. E.
INTERNATIONAL POLYMER PROCESSING, vol.32, no.4, pp.489-501, 2017 (SCI-Expanded)
- VIII. **Effect of high filling ratio on the weld strength of hot plate welded calcite filled polypropylene and its comparison with talc filling**
Ozes Ç., Sayer S., Yeni Ç. E., Taskiran E.
MATERIALWISSENSCHAFT UND WERKSTOFFTECHNIK, vol.47, no.4, pp.351-359, 2016 (SCI-Expanded)
- IX. **Effect of process parameters and talc ratio on hot plate welding of polypropylene**
Taskiran E., Sayer S., Ozes Ç., Yeni Ç. E., Ulker A.
MATERIALWISSENSCHAFT UND WERKSTOFFTECHNIK, vol.46, no.8, pp.860-872, 2015 (SCI-Expanded)
- X. **Application of the Taguchi method for the optimization of the strength of polyamide 6 composite hot plate welds**
Ulker A., Kocatufek U. E., SAYER S., Yeni Ç. E.
MATERIALS TESTING, vol.57, no.6, pp.531-542, 2015 (SCI-Expanded)
- XI. **Investigation of strength mis-match effect on elastic plastic fracture parameters in laser beam welded aluminium alloy joints using the finite element method**
Özdemir U., Yeni Ç. E.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART L-JOURNAL OF MATERIALS-DESIGN AND APPLICATIONS, vol.229, no.3, pp.218-225, 2015 (SCI-Expanded)
- XII. **Determination of Elastic Plastic Fracture Toughness Parameters for a Compact Tension Specimen Using the Finite Element Method**
Ozdemir U., Yeni Ç. E.
MATERIALS TESTING, vol.54, no.6, pp.408-415, 2012 (SCI-Expanded)
- XIII. **Effect of Pin Penetration Depth on the Mechanical Properties of Friction Stir Spot Welded Aluminum and Copper**
Ozdemir U., Sayer S., Yeni Ç. E.
MATERIALS TESTING, vol.54, no.4, pp.233-239, 2012 (SCI-Expanded)
- XIV. **Comparison of mechanical and microstructural behaviors of tungsten inert gas welded and friction stir welded dissimilar aluminum alloys AA 2014 and AA 5083**
Sayer S., Yeni Ç. E., Ertugrul O.
KOVOVE MATERIALY-METALLIC MATERIALS, vol.49, no.2, pp.155-162, 2011 (SCI-Expanded)
- XV. **Mechanical and Microstructural Behaviour of Dissimilar Aluminum Alloys Joined by Friction Stir Welding**
SAYER S., Yeni Ç. E., Kusoglu M.
PRAKTISCHE METALLOGRAPHIE-PRACTICAL METALLOGRAPHY, vol.47, no.2, pp.96-108, 2010 (SCI-Expanded)
- XVI. **Influence of Tool Geometry on Microstructure and Mechanical Properties of a Friction Stir Welded 7075 Aluminum Alloy**
Sayer S., Yeni Ç. E.
MATERIALS TESTING, vol.51, no.11-12, pp.788-793, 2009 (SCI-Expanded)
- XVII. **Comparison of mechanical and microstructural behaviour of TIG, MIG and friction stir welded 7075 aluminium alloy**
Yeni Ç. E., Sayer S., Pakdil M.
KOVOVE MATERIALY-METALLIC MATERIALS, vol.47, no.5, pp.341-347, 2009 (SCI-Expanded)
- XVIII. **The Effect of Welding Parameters on the Microstructure and Mechanical Properties of Friction Stir Welded AA 7075**
Yeni Ç. E.
PRAKTISCHE METALLOGRAPHIE-PRACTICAL METALLOGRAPHY, vol.45, no.10, pp.479-494, 2008 (SCI-Expanded)
- XIX. **Fracture analysis of strength undermatched Al-Alloy welds in edge cracked tensile panels using FITNET procedure**
Cicero S., Yeni Ç. E., Kocak M.

FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES, vol.31, no.9, pp.738-753, 2008 (SCI-Expanded)

XX. **Fracture analysis of laser beam welded superalloys Inconel 718 and 625 using the FITNET procedure**

Yeni Ç. E., Kocak M.

INTERNATIONAL JOURNAL OF PRESSURE VESSELS AND PIPING, vol.85, no.8, pp.532-539, 2008 (SCI-Expanded)

XXI. **Fracture toughness analysis of laser-beam-welded superalloys Inconel 718 and 625**

Yeni Ç. E., Kocak M.

FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES, vol.29, no.7, pp.546-557, 2006 (SCI-Expanded)

XXII. **Determination of mechanical and fracture properties of laser beam welded steel joints**

Cam G., Erim S., Yeni Ç. E., Kocak M.

WELDING JOURNAL, vol.78, no.6, 1999 (SCI-Expanded)

XXIII. **Investigation into properties of laser welded similar and dissimilar steel joints**

Cam G., Yeni Ç. E., Erim S., Ventzke V., Kocak M.

SCIENCE AND TECHNOLOGY OF WELDING AND JOINING, vol.3, no.4, pp.177-189, 1998 (SCI-Expanded)

Articles Published in Other Journals

I. **Dynamic Stability of Cracked Composite Plates**

SAYER Ö., ÖZTÜRK H., YENİ Ç. E., BALTACI A., ÜMÜTLÜ R. C.

Bilecik Şeyh Edebali Üniversitesi Fen Bilimleri Dergisi, vol.9, no.1, pp.208-224, 2022 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **ELEKTRİK İLE TAHRİK EDİLEN HİDROLİK BUMLU BİR KALDIRMA ARACININ STATİK VE DİNAMİK ANALİZİ**

Yeni Ç. E., Çay B.

3. BİLSEL INTERNATIONAL TRUVA SCIENTIFIC RESEARCHES AND INNOVATION CONGRESS, Çanakkale, Turkey, 25 - 26 May 2024, vol.1, no.1, pp.1004-1018

II. **YÜKSEK ISIYA DAYANIMLI SERAMİK TOZLARININ BALL ON DISC MEKANİZMASINDA SÜRTÜNME KATSAYILARININ KARŞILAŞTIRILMASI**

Kızılay E., Yeni Ç. E.

10. Balkan Uluslararası Uygulamalı Bilimler Kongresi, Kırklareli, Turkey, 6 January - 08 February 2024, vol.1, no.1, pp.218-228

III. **UZAY ARAÇLARINDA KULLANILAN YÜKSEK MUKAVEMETLİ KOMPOZİT MALZEMELERİN DİNAMİK SÜRTÜNME VE AŞINMA DAVRANIŞLARININ BELİRLENMESİ**

Yeni Ç. E., Kızılay E.

KARADENİZ 14TH INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, Batumi, Georgia, 13 - 15 October 2023, vol.1, no.1, pp.7-14

IV. **HİDROLİK ÇEKİLEBİLİR BİR KALDIRMA ARACININ STATİK VE DİNAMİK ANALİZİ STATIC AND DYNAMIC ANALYSES OF A HYDRALIC TOWABLE BOOM LIFT**

Yeni Ç. E., Çay B.

4. International Mediterranean Scientific Research Congress, Girne, Cyprus (Kktc), 15 - 16 June 2023, vol.1, no.1, pp.277-287

V. **Yüksek Mukavemetli Bor Karbür ve Silisyum Karbür Kaplı Kompozit Malzemelerin Dinamik Sürtünme Davranışlarının Karşılaştırılması**

Yeni Ç. E., Kızılay E.

5. INTERNATIONAL MARMARA SCIENTIFIC RESEARCH AND INNOVATION CONGRESS, İstanbul, Turkey, 17 - 18

June 2023, vol.1, no.1, pp.181-188

- VI. Single-lap dissimilar joints between AA6061/SiC/20p and hybrid thermoplastic composites: In-plane impact strength and elastic energy during quasi-static indentation process**
Öztoprak N., Yeni Ç. E.
7th International Conference on Modern Approaches in Science, Technology & Engineering, Brussels, Belgium, 18 - 20 June 2021, pp.28-38
- VII. Fatigue Behaviour and Mechanical Properties of AA6061/SiC/20p Composite and AA6061-T6 Dissimilar Joint Fabricated by Friction Stir Welding**
Öztoprak N., Yeni Ç. E., Gören Kırıl B.
19th International Balkan Workshop on Applied Physics and Materials Science, Constanta, Romania, 16 - 19 July 2019
- VIII. Determination of the influences of various tool rotation speeds on the tensile properties of friction stir welded AA6061/SiCp composite**
Öztoprak N., Yeni Ç. E., Gören Kırıl B.
3rd International Conference on Mechanics of Composites, Bologna, Italy, 4 - 07 July 2017, pp.129-130
- IX. Impact behavior of nugget zone in dissimilar friction stir welded AA6061-T6 and AA6061/SiCp composite**
Öztoprak N., Yeni Ç. E., Gören Kırıl B.
6th Rostocker International Conference: "Thermophysical Properties for Technical Thermodynamics", Rostock, Germany, 17 - 18 July 2017
- X. Investigation of Mechanical Properties of Friction Stir Welded 6061-O Aluminum Alloys**
Öztoprak N., Serindağ H. T., Yeni Ç. E., Gören Kırıl B.
International Journal of Arts and Sciences, Paris, France, 11 - 14 April 2016
- XI. INVESTIGATION OF THE EFFECT OF GLASS-FIBER VOLUME FRACTION ON THE WELD STRENGTH IN JOINING OF HOT PLATE WELDED DISSIMILAR PA 6 MATERIALS**
Sayer S., Öztoprak N., Yeni Ç. E.
IMSP'2016 16th International Materials Symposium, Denizli, Turkey, 12 - 14 October 2016
- XII. Optimization of weld parameters of hot plate welded ABSPC blends by using the Taguchi experimental design method**
Ülker A., Öztoprak N., Sayer S., Yeni Ç. E.
3rd International Conference on Thermophysical and Mechanical Properties of Advanced Materials, İzmir, Turkey, 1 - 03 September 2016
- XIII. Mechanical properties of dissimilar friction stir welded joints between AA7075 AA7075-O and AA6061O and AA6061-O alloys**
ÖZTOPRAK N., Serindağ H. T., YENİ Ç. E., Kırıl B. G.
Proceedings of the 2nd World Congress on Mechanical, Chemical, and Material Engineering, MCM 2016, Budapest, Hungary, 22 - 23 August 2016
- XIV. Analyzing dissimilar hot plate welding of 40 talc 40 calcite filled polypropylene**
ÖZES Ç., YENİ Ç. E., SAYER S.
International Conference on Thermophysical and Mechanical Properties of Advanced Materials, Baku, Azerbaijan, 16 - 18 September 2015, pp.112
- XV. Investigation of Mechanical Properties and Numerical Simulation of Friction Stir Welded 7075 Aluminum Alloys**
Serindağ H. T., Öztoprak N., Gören Kırıl B., Yeni Ç. E.
INTERNATIONAL CONFERENCE: "THERMOPHYSICAL AND MECHANICAL PROPERTIES OF ADVANCED MATERIALS", Baku, Azerbaijan, 17 - 18 September 2015
- XVI. Investigation of the Effect of Tool Rotational Speed on the Microstructure and Hardness Behaviour of Friction Stir Welded 7075 Aluminum Alloys**
Öztoprak N., Serindağ H. T., Gören Kırıl B., Yeni Ç. E.
INTERNATIONAL CONFERENCE: "THERMOPHYSICAL AND MECHANICAL PROPERTIES OF ADVANCED MATERIALS", Baku, Azerbaijan, 17 - 18 September 2015

XVII. The effect of welding speed on the microstructure and mechanical properties of dissimilar aluminum alloys joined by friction stir welding

YENİ Ç. E., SAYER S., Ertürül O.

International Conference on Advances in Welding Science and Technology for Construction, Energy and Transportation, AWST 2010, held in Conjunction with the 63rd Annual Assembly of the International Institute of Welding, IIW 2010, İstanbul, Turkey, 11 - 17 July 2010, pp.501-505

Supported Projects

YENİ Ç. E., Project Supported by Higher Education Institutions, PLASTİK VE KOMPOZİTLERİNİN SICAK PLAKA KAYNAK PARAMETRELERİNİN MEKANİK ÖZELLİKLER VE DARBE DAYANIMI ÜZERİNDEKİ ETKİLERİNİN ARAŞTIRILMASI, 2011 - 2013

YENİ Ç. E., Project Supported by Higher Education Institutions, LAZER KAYNAKLI ALUMİNYUM ALAŞIM BAĞLANTILARIN ELASTİK PLASTİK KIRILMA MEKANİĞİ PARAMETRELERİNİN BELİRLENMESİ, 2008 - 2010

YENİ Ç. E., Project Supported by Higher Education Institutions, SÜRTÜNME KARIŞTIRMA KAYNAKLI FARKLI KALINLIK VE TÜRDEKİ ALUMİNYUM ALAŞIM BAĞLANTILARININ İNCELENMESİ, 2006 - 2008

Patent

Yeni Ç. E., Sayer S., Yeniden doldurulmalı sürtünme karıştırma nokta kaynak yöntemi, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2018 08975 , Standard Registration, 2021

Scientific Refereeing

SURFACE TOPOGRAPHY: METROLOGY AND PROPERTIES, SCI Journal, March 2024

MATERIALS RESEARCH EXPRESS, SCI Journal, February 2024

MATERIALS RESEARCH EXPRESS, SCI Journal, January 2024

Journal of innovative engineering and natural science (Online), Other Indexed Journal, October 2023

TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS, SCI Journal, August 2023

MATERIALS RESEARCH EXPRESS, SCI Journal, August 2023

TUBITAK Project, 2214/A INTERNATIONAL PHD RESEARCH SCHOLARSHIP PROGRAM, Istanbul Technical University, Turkey, August 2023

Engineering Research Express, Journal Indexed in ESCI, July 2023

Scientific Publication, ÜAK Etik Kurul, Istanbul Aydın University, Turkey, July 2023

Engineering Research Express, Journal Indexed in ESCI, May 2023

TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS, SCI Journal, March 2023

SURFACE TOPOGRAPHY: METROLOGY AND PROPERTIES, SCI Journal, March 2023

Metrics

Publication: 42

Citation (WoS): 320

Citation (Scopus): 331

H-Index (WoS): 8

H-Index (Scopus): 8