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Yoksis Araştırmacı ID: [20177](https://yoksis.gov.tr/yoksis/arastrmaci/20177)

### Eğitim Bilgileri

Doktora, Yıldız Teknik Üniversitesi, Makine Fakültesi, Makine Mühendisliği Bölümü, Türkiye 2008 - 2012

Yüksek Lisans, Yıldız Teknik Üniversitesi, Makine Fakültesi, Makine Mühendisliği Bölümü, Türkiye 2006 - 2008

Lisans, Uludağ Üniversitesi, Mühendislik Ve Mimarlık Fakültesi, Makine Mühendisliği Bölümü, Türkiye 2001 - 2005

### Yabancı Diller

İngilizce, C1 İleri

### Yaptığı Tezler

Doktora, Kesici Ağzı Yuvarlatılmış Aşınmış Kesici Takımlar ile Ortogonal Talaş Kaldırmanın Kayma Hatları İle Modellenmesi ve Analizi, Yıldız Teknik Üniversitesi, Makine Mühendisliği, İmal Usulleri, 2012

Yüksek Lisans, Rüzgar Türbini Kanat Malzemelerinin Mekanik Özelliklerinin İncelenmesi, Yıldız Teknik Üniversitesi, Makine Mühendisliği, İmal Usulleri, 2008

### Araştırma Alanları

Makina Mühendisliği, Konstrüksiyon ve İmalat, Bilgisayar Destekli Tasarım ve İmalat, Talaşlı İmalat Yöntemleri, Mühendislik ve Teknoloji

### Akademik Unvanlar / Görevler

Prof. Dr., Yıldız Teknik Üniversitesi, Makine Fakültesi, Makine Müh.Bölümü, 2022 - Devam Ediyor

Doç. Dr., Yıldız Teknik Üniversitesi, Makine Fakültesi, Makine Müh.Bölümü, 2017 - 2022

Doç. Dr., University of Kentucky, College Of Engineering, Mechanical Engineering, 2017 - 2018

Yrd. Doç. Dr., Yıldız Teknik Üniversitesi, Makine Fakültesi, Makine Müh.Bölümü, 2017 - 2017

Araştırma Görevlisi Dr., Yıldız Teknik Üniversitesi, Makine Fakültesi, Makine Müh.Bölümü, 2012 - 2017

Araştırma Görevlisi, Yıldız Teknik Üniversitesi, Makine Fakültesi, Makine Müh.Bölümü, 2007 - 2012

## Yönetilen Tezler

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- I. **Machining and Sustainability Performance Comparison for the Milling Process of Al6082 Alloy Under Various Minimum Quantity Lubrication Conditions**  
Yapan Y. F., Türkeli K., Emiroğlu U., Bahçe E., Uysal A.  
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- III. **Investigation of ultrasonic vibration assisted orthogonal turning under dry and minimum quantity lubrication conditions and performing sustainability analyses**  
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- IV. **Influence of singular and dual MQL nozzles on sustainable milling of Al6061-T651 in different machining environments**  
Cönger D. B., Yapan Y. F., Emiroğlu U., Uysal A., Altan E.  
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- V. **Investigation of MQL and CNC turning parameters on the machinability of unreinforced polypropylene: study of surface roughness, temperature, and specific cutting energy**  
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- VI. **Investigation on machining of GFRP through ANOVA, DFA, and CoCoSo method combined with Taguchi approach**  
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- VII. **Sustainability assessment and optimization for milling of compacted graphite iron using hybrid nanofluid assisted minimum quantity lubrication method**  
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- VIII. **Multi-objective analysis and optimization of energy aspects during dry and MQL turning of**

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- IX. **In pursuit of sustainability in machining thin walled  $\alpha$ -titanium tubes: An industry supported study**  
Khanna N., Kshitij G., Solanki M., Bhatt T., Patel O., UYSAL A., Sarıkaya M.  
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- X. **Assessment of turning AISI 316L stainless steel under MWCNT-reinforced nanofluid-assisted MQL and optimization of process parameters by NSGA-II and TOPSIS**  
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- XIV. **Production and Cleaning of Lattice Structures Used in the Space and Aerospace Industry with Metal Additive Manufacturing Method**  
Akbay O. C., BAHÇE E., UYSAL A., GEZER İ.  
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- XV. **Effect of Octet-Truss Lattice Transition Geometries on Mechanical Properties**  
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- XVI. **Evaluation of MQL performances using various nanofluids in turning of AISI 304 stainless steel**  
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- XVII. **Analysis of slip-line model for serrated chip formation in orthogonal machining of AISI 304 stainless steel under various cooling/ lubricating conditions**  
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- XIX. **Turning Performance of Bonded Cutting Tools with Nanographene or Multi-walled Carbon Nanotube Particle-Reinforced Epoxy-Based Nanocomposite Adhesives**  
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- XXI. **Mechanical strength of single-lap joints bonded with nano graphene and MWCNT reinforced epoxy-**

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- XXII. **Accuracy estimation in drilling small holes on engineering plastics by a mathematical approach**  
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- XXIII. **Evaluation of drilling parameters on surface roughness and burr when drilling carbon black reinforced high-density polyethylene**  
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- XXIV. **Influence of cutting temperature when drilling carbon black reinforced polyamides**  
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- XXV. **An Experimental Study on Mechanical Behavior of Nanographene/Epoxy Nanocomposites**  
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- XXVI. **Effects of cutting parameters on drilling performance of carbon black-reinforced polymer composite**  
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- XXVII. **Effects of nano graphene particles on surface roughness and cutting temperature during MQL milling of AISI 430 stainless steel**  
UYSAL A.  
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- XXVIII. **Investigation into the effectiveness of cutting parameters on wear regions of the flank wear curve and associated cutting tool life improvement**  
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- XXIX. **Surface Roughness in Nanofluid Minimum Quantity Lubrication Milling of AISI 430 Ferritic Stainless Steel**  
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- XXX. **Investigation of cutting temperature in minimum quantity lubrication milling of ferritic stainless steel by using multi wall carbon nanotube reinforced cutting fluid**  
UYSAL A.  
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- XXXI. **Effect of work hardening of cobalt in sintered carbide cutting tool on tool failure during interrupted cutting**  
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- XXXII. **Slip-line field modelling of rounded-edge cutting tool for orthogonal machining**  
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- XXXIII. **Cutting parameters for optimum surface roughness during end milling of carbon fiber reinforced composites**  
UYSAL A.  
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- XXXIV. **Surface Roughness in Drilling of Electrically Conductive Polyamide**  
Uysal A., Altan E.  
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- XXXV. **Investigation of Surface Roughness and Chip Forms in Milling of Stainless Steel by MQL Method**  
Uysal A., Demiren F., Altan E.  
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- XXXVI. **Investigation of flank wear in MQL milling of ferritic stainless steel by using nano graphene reinforced vegetable cutting fluid**  
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- XXXVII. **Quality during milling of a glass fiber reinforced polymer composite**  
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- XXXVIII. **Surface Roughness of Milled Sheet Molding Compound Composites**  
UYSAL A., ALTAN M.  
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- XXXIX. **An experimental study on dead metal zone in orthogonal cutting with worn rounded-edge cutting tools**  
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INTERNATIONAL JOURNAL OF MATERIALS & PRODUCT TECHNOLOGY, cilt.51, ss.401-412, 2015 (SCI-Expanded)
- XL. **A Study on Drilling of AISI 304L Stainless Steel with Nanocomposite-Coated Drill Tools**  
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- XLI. **Experimental investigation of a slip-line field model for a worn cutting tool**  
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- XLII. **Effects of process parameters on surface roughness in saw cutting of polypropylene/TiO<sub>2</sub> nano composites**  
ALTAN M., UYSAL A., ALTAN E.  
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- XLIII. **A NEW SLIP-LINE FIELD MODELING OF ORTHOGONAL MACHINING WITH A ROUNDED-EDGE WORN CUTTING TOOL**  
Uysal A., Altan E.  
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- XLIV. **Metallographic Analysis of the Dead Metal Zone In Metal Cutting With a Rounded-Edge Tool**  
Ozturk S., UYSAL A., ALTAN E.  
PRAKTISCHE METALLOGRAPHIE-PRACTICAL METALLOGRAPHY, cilt.50, sa.5, ss.318-330, 2013 (SCI-Expanded)
- XLV. **Effects of cutting parameters on tool wear in drilling of polymer composite by Taguchi method**  
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## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **Examining the Effect of the Fe<sub>3</sub>O<sub>4</sub>-Doped Nanofluid MQL Method on the Machining Performance of Al-Mg-Si Alloy**  
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- II. **Surface Roughness Assessment After Milling of Pure and Carbon Black Reinforced Polypropylene Materials**  
Akn A. H., Yapan Y. F., Kusyj Y., Ivanov V., Uysal A.  
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- III. **Dimensional Accuracy of Porous Structures Manufactured Using Air Controller**  
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- IV. **Ensuring the Quality of Conical Mating Surfaces Processing by Diamond Honing**  
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- V. **Improvement of the MQL Efficiency in Machining Stainless Steel by Adding Nanoparticles to the Cutting Fluid**  
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- VI. **An Experimental and Statistical Investigation on Cutting Forces in Turning of AISI 304 Stainless Steel under Dry, MQL and Nanofluid MQL Conditions**  
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- VII. **Cutting and Thrust Forces in Face Turning of Ti6Al4V under Various Cutting Environments**  
UYSAL A.  
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- VIII. **Minimizing Surface Roughness and Radius Error in Laser Cutting of EN10346 Steel Plate**  
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- IX. **Effect of MWCNT on Surface Roughness and Burr Height in MQL Milling of AISI 430 Ferritic Stainless Steel**  
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- X. **The Influence of Milling Parameters on Cutting Forces in High-speed Milling of Polymer Materials**  
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- XI. **Multi-objective optimization of turning parameters for targeting surface roughness and maximizing material removal rate in dry turning of AISI 316L with PVD-coated cermet insert**  
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- XII. **Minimizing Carbon Emissions and Machining Costs with Improved Human Health in Sustainable Machining of Austenitic Stainless Steel through Multi-objective Optimisation**  
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- XIII. **Analyzing Optimum Process Parameters in Laser Cutting of EN10025-2 Steel Plate**  
Kangal A. M., UYSAL A.  
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- XIV. **An Investigation of Process Performance when Drilling Carbon Fiber Reinforced Polymer (CFRP) Composite under Dry, Cryogenic and MQL Environments**  
Nagaraj A., UYSAL A., Jawahir I. S.  
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- XV. **Validation of the Slip-line Model for Serrated Chip Formation in Orthogonal Turning under Dry and MQL Conditions**  
Uysal A., Jawahir I.  
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- XVI. **Alüminyum 6061 Malzemenin MQL Yöntemi ile Frezelenmesinde Nano MoS<sub>2</sub> Katkılı Kesme Sıvısı Kullanımının Kesme Kuvvetleri ve Yüzey Pürüzlülüğüne Etkilerinin İncelenmesi**  
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- XVII. **An Experimental Study on Cutting Temperature and Burr in Milling of Ferritic Stainless Steel under MQL using Nano Graphene Reinforced Cutting Fluid**  
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- XVIII. **Ferritik Paslanmaz Çeliğin Nano MoS<sub>2</sub> Parçacık Takviyeli Kesme Sıvısı Kullanılarak MQL Yöntemi ile Frezelenmesinde Yüzey Pürüzlülüğünün İncelenmesi**  
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- XIX. **Karbon Siyahı Takviyeli Elektrikli İleten Polipropilen Kompozite Delik Delinmesinde İşlem Parametrelerinin İncelenmesi**  
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- XX. **Effect of Ploughing Force on Cutting Forces in Micro-Milling with a Rounded-Edge Cutting Tool**  
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- XXI. **Applying Minimum Quantity Lubrication MQL Method on Milling of Martensitic Stainless Steel by Using Nano MoS<sub>2</sub> Reinforced Vegetable Cutting Fluid**  
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- XXII. **RELATION BETWEEN DRILL BIT TEMPERATURE AND CHIP FORMS IN DRILLING OF CARBON BLACK REINFORCED POLYAMIDE**  
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- XXIII. **Kesici Ağzı Yuvarlatılmış Aşınmış Takımlarla Ortogonal Talaş Kaldırmada Kesme Kuvvetlerinin Deneysel İncelenmesi**  
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- XXVIII. **Investigation of the Effects of Cutting Parameters on Surface Roughness in Drilling of Polymer Composite Materials**  
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## **Akademi Dışı Deneyim**

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