

**Assoc. Prof. ÇAĞRI VAKKAS
YILDIRIM**



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International Researcher IDs

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Publons / Web Of Science ResearcherID: P-1530-2019

ScopusID: 57194605220

Yoksis Researcher ID: 38437



Education Information

Doctorate, Duzce University, Institute Of Science, Makine Mühendisliği, Turkey 2013 - 2017

Undergraduate, Bolu Abant İzzet Baysal University, Faculty Of Engineering-Architecture, Turkey 2013 - 2016

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Turkey 2008 - 2011

Undergraduate, Gazi University, Teknik Eğitim Fakültesi, Makina Eğitimi, Turkey 2001 - 2005

Foreign Languages

English, B1 Intermediate

Dissertations

Doctorate, Investigation of Machinability of Waspaloy Superalloy with Milling Method Using Different Cooling Techniques, Duzce University, Institute Of Science, 2017

Postgraduate, Work Health and Safety in Small and Medium Enterprises: A Field Research, Gazi University, Fen Bilimleri Enstitüsü, 2011

Research Areas

Mechanical Engineering, Construction and Manufacturing, Computer Aided Design and Manufacturing, Non-traditional manufacturing methods, Machining Methods, Material Technologies

Academic Titles / Tasks

Associate Professor, Erciyes University, Havacılık ve Uzay Bilimleri Fakültesi, Uçak Gövde ve Motor Bakımı, 2021 - Continues

Assistant Professor, Erciyes University, Havacılık ve Uzay Bilimleri Fakültesi, Uçak Gövde ve Motor Bakımı, 2018 - 2021

Assistant Professor, Erciyes University, Havacılık ve Uzay Bilimleri Fakültesi, Uçak Gövde ve Motor Bakımı, 2017 - 2018

Lecturer, Abant İzzet Baysal Üniversitesi, Bolu Meslek Yüksekokulu, Makine Ve Metal Teknolojileri, 2013 - 2017

Academic and Administrative Experience

Head of Department, Erciyes University, Havacılık ve Uzay Bilimleri Fakültesi, Uçak Gövde Ve Motor Bakımı, 2023 - Continues

Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Erciyes University, Havacılık ve Uzay Bilimleri Fakültesi, Uçak Gövde Ve Motor Bakımı, 2023 - Continues

Deputy Director of the Center, Erciyes University, Havacılık ve Uzay Bilimleri Fakültesi, Uçak Gövde ve Motor Bakımı, 2023 - Continues

2013 - Continues

Erciyes University, 2022 - 2022

Fakülte Yönetim Kurulu Üyesi, Erciyes University, Havacılık ve Uzay Bilimleri Fakültesi, Uçak Gövde ve Motor Bakımı, 2021 - 2022

2009 - 2011

Courses

Aircraft Materials Science, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

Aircraft Materials and Hardware II, Undergraduate, 2022 - 2023, 2021 - 2022

CNC Machine Tools, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

Aircraft Materials and Hardware I, Undergraduate, 2021 - 2022, 2020 - 2021

Advanced Computer Aided Design, Postgraduate, 2021 - 2022, 2020 - 2021

Introduction to Civil Aviation, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

Introduction to Civil Aviation II, Postgraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

Advanced Technology Materials, Postgraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

Structural Design, Undergraduate, 2020 - 2021

Aircraft Structure II, Undergraduate, 2018 - 2019

Final Year Project, Undergraduate, 2018 - 2019

Introduction to Civil Aviation, Undergraduate, 2018 - 2019

Application of Aircraft Design, Undergraduate, 2018 - 2019

Advising Theses

Yıldırım Ç. V., The Effect of Production of AlSi10Mg Alloy by Selective Laser Melting on Production Parameters and Material Properties, Postgraduate, A.LÜTFİ(Student), 2022

Yıldırım Ç. V., Uzun M., Designing a Wind Turbine Blade Biomimetically with Experimental and Numerical Methods, Postgraduate, M.ÖZDEMİR(Student), 2021

Yıldırım Ç. V., The Effect of Nanofluid Concentration Ratio and MQL Parameters on Surface Roughness and Cutting Temperature in Turning of AA 2024 Alloy, Postgraduate, A.YASAKÇI(Student), 2021

Kivak T., Yıldırım Ç. V., Investigation of the Effects of Nanoparticle Added Cutting Oils on Machining Performance in the Drilling of Hastelloy X Super Alloy, Doctorate, E.Şirin(Student), 2021

Yıldırım Ç. V., Uzun M., Numerical Analysis of Aerodynamic Performance of Bird Wing Shapes Inspired by Nature for Unmanned Aerial Vehicles, Postgraduate, H.HÜSEYİN(Student), 2021

Yıldırım Ç. V., The Effect of Specific Production Parameters on Material Properties in the Production of Ti6Al4V Alloy by Selective Laser Melting Method, Postgraduate, D.SELMA(Student), 2021
Yıldırım Ç. V., Kıvak T., Investigation the Effects of Minimum Quantity Lubrication on Surface Roughness and Tool Wear in Milling of Hastelloy C276 Alloy, Postgraduate, F.GÜNAN(Student), 2019

Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, December, 2023
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, December, 2023
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, December, 2023
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, December, 2023
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, December, 2023
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, December, 2023
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, July, 2023
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, July, 2023
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, July, 2023
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, July, 2023
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, July, 2023
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, July, 2023
Post Graduate, Post Graduate, Gazi Üniversitesi, July, 2023
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, July, 2023
Post Graduate, Post Graduate, Gazi Üniversitesi, June, 2023
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, December, 2021
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, December, 2021
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, December, 2021
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, December, 2021
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, December, 2021
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, December, 2021
Post Graduate, Post Graduate, Gazi Üniversitesi, August, 2021
Doctoral Examination, Doctoral Examination, Erciyes Üniversitesi, June, 2021
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, March, 2021
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, March, 2021
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, March, 2021
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, March, 2021

Post Graduate, Post Graduate, Sinop Üniversitesi, February, 2021
Post Graduate, Post Graduate, Sinop Üniversitesi, February, 2021
Post Graduate, Post Graduate, Erciyes Üniversitesi, January, 2021
Doctoral Examination, Doctoral Examination, Erciyes Üniversitesi, November, 2020
Doctoral Examination, Doctoral Examination, Erciyes Üniversitesi, January, 2020
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, January, 2020
Post Graduate, Post Graduate, Düzce Üniversitesi, July, 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Analysis of machinability and sustainability aspects while machining Hastelloy C4 under sustainable cutting conditions**
YILDIRIM Ç. V., Sirin S., Dagli S., Salvi H., Khanna N.
SUSTAINABLE MATERIALS AND TECHNOLOGIES, vol.38, 2023 (SCI-Expanded)
- II. **An attempt towards green machining of Ni-based Hastelloy C4 alloy: Effect of vegetable oils and their combination with TiO₂ and SiO₂ nanoparticles on outputs**
YILDIRIM Ç. V., Sirin S., Kivak T., ERCAN H., Sarikaya M.
SUSTAINABLE MATERIALS AND TECHNOLOGIES, vol.37, 2023 (SCI-Expanded)
- III. **The effect of nanofluids reinforced with different surfactants on the machining and friction-wear properties of Waspaloy**
YILDIRIM Ç. V., Şirin Ş., Kivak T., Sarıkaya M.
Tribology International, vol.181, 2023 (SCI-Expanded)
- IV. **Resource conservation and sustainable development in the metal cutting industry within the framework of the green economy concept: An overview and case study**
Kshitij G., Khanna N., YILDIRIM Ç. V., Dag S., Sarikaya M.
SUSTAINABLE MATERIALS AND TECHNOLOGIES, vol.34, 2022 (SCI-Expanded)
- V. **Investigation of the characteristic properties of graphene-based nanofluid and its effect on the turning performance of Hastelloy C276 alloy**
Babu M. N., Anandan V., YILDIRIM Ç. V., Babu M. D., Sarikaya M.
WEAR, vol.510, 2022 (SCI-Expanded)
- VI. **Performance analysis in turning of D3 tool steel using silver nanoplatelets as additives under MQL**
Babu M. N., Anandan V., Parthasarathi N. L., Yıldırım Ç. V., Babu M. D., Das S. R.
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.44, pp.591-618, 2022 (SCI-Expanded)
- VII. **Experimental investigation on the effect of dry and multi-jet cryogenic cooling on the machinability and hole accuracy of CFRP composites**
Agrawal C., Khanna N., Pimenov D. Y., Wojciechowski S., Giasin K., Sarikaya M., YILDIRIM Ç. V., Jamil M.
JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, vol.18, pp.1772-1783, 2022 (SCI-Expanded)
- VIII. **A comparative study on the tribological behavior of mono&proportional hybrid nanofluids for sustainable turning of AISI 420 hardened steel with cermet tools**
YILDIRIM Ç. V., Sirin S., Kivak T., Sarikaya M.
JOURNAL OF MANUFACTURING PROCESSES, vol.73, pp.695-714, 2022 (SCI-Expanded)
- IX. **A state-of-the-art review on tool wear and surface integrity characteristics in machining of superalloys**
Sarikaya M., Gupta M. K., Tomaz I., Pimenov D. Y., Kuntoglu M., Khanna N., YILDIRIM Ç. V., Krolczyk G. M.
CIRP JOURNAL OF MANUFACTURING SCIENCE AND TECHNOLOGY, vol.35, pp.624-658, 2021 (SCI-Expanded)
- X. **Influence of MoS₂ based nanofluid-MQL on tribological and machining characteristics in turning of AA 2024 T3 aluminum alloy**
Yucel A., YILDIRIM Ç. V., Sarikaya M., Sirin S., Kivak T., Gupta M. K., Tomaz I.

- JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, vol.15, pp.1688-1704, 2021 (SCI-Expanded)
- XI. **Performance of cryogenically treated carbide inserts under sustainable cryo-lubrication assisted milling of Inconel X750 alloy**
Sirin S., YILDIRIM Ç. V., Kivak T., Sarikaya M.
SUSTAINABLE MATERIALS AND TECHNOLOGIES, vol.29, 2021 (SCI-Expanded)
- XII. **Influence of graphene nanofluid on various environmental factors during turning of M42 steel**
Anandan V., Babu M. N., Sezhian M. V., YILDIRIM Ç. V., Babu M. D.
JOURNAL OF MANUFACTURING PROCESSES, vol.68, pp.90-103, 2021 (SCI-Expanded)
- XIII. **Performance evaluation of whisker-reinforced ceramic tools under nano-sized solid lubricants assisted MQL turning of Co-based Haynes 25 superalloy**
Sarikaya M., Sirin S., YILDIRIM Ç. V., Kivak T., Gupta M. K.
CERAMICS INTERNATIONAL, vol.47, no.11, pp.15542-15560, 2021 (SCI-Expanded)
- XIV. **Effects of mono/hybrid nanofluid strategies and surfactants on machining performance in the drilling of Hastelloy X**
Sirin E., Kivak T., YILDIRIM Ç. V.
TRIBOLOGY INTERNATIONAL, vol.157, 2021 (SCI-Expanded)
- XV. **Machinability performance of nickel alloy X-750 with SiAlON ceramic cutting tool under dry, MQL and hBN mixed nanofluid-MQL**
Sirin S., Sarikaya M., YILDIRIM Ç. V., Kivak T.
TRIBOLOGY INTERNATIONAL, vol.153, 2021 (SCI-Expanded)
- XVI. **Performance evaluation of MQL with AL(2)O(3) mixed nanofluids prepared at different concentrations in milling of Hastelloy C276 alloy**
Günan F., KIVAK T., YILDIRIM Ç. V., SARIKAYA M.
JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, vol.9, no.5, pp.10386-10400, 2020 (SCI-Expanded)
- XVII. **Study on turning performance of PVD TiN coated Al₂O₃+TiCN ceramic tool under cutting fluid reinforced by nano-sized solid particles**
Kivak T., Sarikaya M., YILDIRIM Ç. V., Sirin S.
JOURNAL OF MANUFACTURING PROCESSES, vol.56, pp.522-539, 2020 (SCI-Expanded)
- XVIII. **Investigation of the influence of MWCNTs mixed nanofluid on the machinability characteristics of PH 13-8 Mo stainless steel**
Ondin O., Kivak T., Sarikaya M., YILDIRIM Ç. V.
TRIBOLOGY INTERNATIONAL, vol.148, 2020 (SCI-Expanded)
- XIX. **Investigation of hard turning performance of eco-friendly cooling strategies: Cryogenic cooling and nanofluid based MQL**
YILDIRIM Ç. V.
TRIBOLOGY INTERNATIONAL, vol.144, 2020 (SCI-Expanded)
- XX. **Evaluation of tool wear, surface roughness/topography and chip morphology when machining of Ni-based alloy 625 under MQL, cryogenic cooling and CryoMQL**
YILDIRIM Ç. V., Kivak T., Sarikaya M., Şirin Ş.
JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, vol.9, no.2, pp.2079-2092, 2020 (SCI-Expanded)
- XXI. **Experimental comparison of the performance of nanofluids, cryogenic and hybrid cooling in turning of Inconel 625**
Yıldırım Ç. V.
TRIBOLOGY INTERNATIONAL, vol.137, pp.366-378, 2019 (SCI-Expanded)
- XXII. **Influence of Different Cooling Methods on Tool Life, Wear Mechanisms and Surface Roughness in the Milling of Nickel-Based Waspaloy with WC Tools**
Yıldırım Ç. V., Kivak T., Erzincanlı F.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.44, no.9, pp.7979-7995, 2019 (SCI-Expanded)
- XXIII. **The effect of addition of hBN nanoparticles to nanofluid-MQL on tool wear patterns, tool life, roughness and temperature in turning of Ni-based Inconel 625**

Yıldırım Ç. V., Sarıkaya M., Kivak T., Sirin S.
TRIBOLOGY INTERNATIONAL, vol.134, pp.443-456, 2019 (SCI-Expanded)

XXIV. **Tool wear and surface roughness analysis in milling with ceramic tools of Waspaloy: a comparison of machining performance with different cooling methods**

Yıldırım Ç. V., Kivak T., Erzincanlı F.
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.41, 2019 (SCI-Expanded)

XXV. **Determination of MQL Parameters Contributing to Sustainable Machining in the Milling of Nickel-Base Superalloy Waspaloy**

Yıldırım C. V., Kivak T., Sarıkaya M., Erzincanlı F.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.42, pp.4667-4681, 2017 (SCI-Expanded)

Articles Published in Other Journals

- I. **Effect of Process Parameters on Surface Quality in the Production of AlSi10Mg Alloy by SLM Method**
Özsoy A. L., Şirin E., Yıldırım Ç. V., Sarıkaya M.
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.12, no.2, pp.480-493, 2024 (Peer-Reviewed Journal)
- II. **Üretim Parametrelerinin Seçici Lazer Ergitme Yöntemi ile Ti6Al4V Alaşımının Çekme Dayanımı, Elastisite Modülü ve Uzama Özelliklerine Etkisi**
Aydın D. S., Yıldırım Ç. V., Şirin Ş.
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.12, no.1, pp.1-17, 2024 (Peer-Reviewed Journal)
- III. **Ti6Al4V Alaşımının SLM Yöntemiyle Üretmesinde Taguchi Metodu Kullanılarak Proses Parametrelerinin Optimizasyonu**
AYDIN D. S., ÖZSOY A. L., YILDIRIM Ç. V.
International Journal of Innovative Engineering Applications, vol.6, no.2, pp.230-236, 2022 (Peer-Reviewed Journal)
- IV. **A novel biomimetic wing design and optimizing aerodynamic performance**
Uzun M., Özdemir M., Yıldırım Ç. V., Çoban S.
Journal of Aviation, vol.6, no.1, pp.12-25, 2022 (Peer-Reviewed Journal)
- V. **Recent innovations in the production of aerospace materials by additive manufacturing**
ÖZSOY A. L., YILDIRIM Ç. V., SARIKAYA M.
Journal of Production Systems & Manufacturing Science, vol.2, no.2, pp.1-4, 2021 (Peer-Reviewed Journal)
- VI. **Effect of Nanofluid Concentration Ratio and MQL Parameters on Surface Roughness and Cutting Temperature in Turning AA2024 Alloy**
Yücel A., Yıldırım Ç. V.
İmalat Teknolojileri ve Uygulamaları, vol.1, no.3, pp.18-32, 2020 (Peer-Reviewed Journal)
- VII. **Optimization of Surface Roughness and Cutting Temperature for Milling AISI 316 Using Graphite Particle Reinforced Nanofluid**
Yıldırım Ç. V.
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.7, pp.326-341, 2019 (Peer-Reviewed Journal)
- VIII. **Investigation of Factors Affecting the Health and Safety Small and Medium-Sized Enterprises (SMEs): Example of Ankara**
Yıldırım Ç. V., Asal Ö.
Türkiye Sosyal Araştırmalar Dergisi, vol.161, pp.103-122, 2019 (Peer-Reviewed Journal)
- IX. **Investigation of the Effect of Nanoparticle Additive Lubrication on Tool Wear in Milling of Waspaloy Super Alloy**
Yıldırım Ç. V., Şirin Ş., Kivak T.
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.7, pp.466-476, 2019 (Peer-Reviewed Journal)
- X. **Production Methods, Application Areas and Material Properties of Metallic Foam Materials**

Yıldırım Ç. V.

İleri Teknoloji Bilimleri Dergisi, vol.7, no.2, pp.100-116, 2018 (Peer-Reviewed Journal)

XI. Optimization of Cutting Force by Taguchi Method in Milling of Nickel Based Waspaloy Super Alloy with Ceramic Tools

Yıldırım Ç. V., Kıvak T., Erzincanlı F.

Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.5, pp.400-414, 2017 (Peer-Reviewed Journal)

XII. Optimization of MQL Parameters Using the Taguchi Method in Milling of Nickel Based Waspaloy

Yıldırım Ç. V., Kıvak T., Erzincanlı F., Uygur I., Sarıkaya M.

GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.30, no.2, pp.173-186, 2017 (ESCI)

XIII. Minimum Amount of Lubrication Applications in Machining of Super Alloys

Yıldırım Ç. V.

İleri Teknoloji Bilimleri Dergisi, vol.5, pp.87-105, 2016 (Peer-Reviewed Journal)

Books & Book Chapters

I. Derin Öğrenme ile Nesne Tespiti

Yıldırım Ç. V., Sevinç A. M.

in: Mühendislikte Yapay Zekâ Araştırmaları, Murat Sarıkaya, Mustafa Kemal Balki, Volkan Çavuş, Editor, Nobel Yayınevi, Ankara, pp.131-158, 2023

II. Yapay Zeka Tabanlı Görüntü İşleme Teknikleriyle Drone Tespiti

Yıldırım Ç. V., Sevinç A. M., Kara M. İ.

in: Mühendislikte Yapay Zeka Araştırmaları, MURAT SARIKAYA, MUSTAFA KEMAL BAKI, VOLKAN ÇAVUŞ, Editor, Nobel Yayınevi, Ankara, pp.55-76, 2023

III. Eklemeli İmalat Sürecinde Makine Öğrenme Uygulamaları

Yıldırım Ç. V.

in: Mühendislik Alanında Yapay Zeka, Murat Sarıkaya, Mustafa Kemal Balki, Volkan Çavuş, Editor, Çizgi Kitabevi Yayınları, Konya, pp.45-67, 2022

IV. İnsansız Hava Araçlarında Görüntü İşleme Uygulamaları

Sevinç A. M., Yıldırım Ç. V.

in: Mühendislik Alanında Yapay Zeka, Murat Sarıkaya, Mustafa Kemal Balki, Volkan Çavuş, Editor, Çizgi Kitabevi Yayınları, Konya, pp.123-139, 2022

Refereed Congress / Symposium Publications in Proceedings

I. YOLO ALGORİTMALARI KULLANILARAK YABANİ OT TESPİTİ

Sevinç A. M., Ağırman A. K., Yıldırım Ç. V.

17TH INTERNATIONAL ISTANBUL SCIENTIFIC RESEARCH CONGRESS ON LIFE, ENGINEERING, ARCHITECTURE AND MATHEMATICAL SCIENCES, İstanbul, Turkey, 28 - 30 April 2024, pp.328-336

II. Investigation of Wing Strength and Propulsion System Suitability for Unmanned Aerial Vehicle Flight Missions

Kara M. İ., Ceylan A., Yıldırım Ç. V.

6th International Azerbaijan Congress on Life, Engineering, Mathematical, and Applied Sciences, Baku, Azerbaijan, 20 - 22 March 2024, pp.217-229

III. The Effect of Material Selection on Ground Tests in Mini Unmanned Aerial Vehicles

Özdemir B., Kara M. İ., Ceylan A., Yıldırım Ç. V.

10th International Mardin Artuklu Scientific Research Conference, Mardin, Turkey, 19 - 21 May 2023, pp.510-530

IV. The Effect of Process Parameters on Micro Hardness in the Production of Ti6Al4V Alloy by Selective Laser Melting

Aydın D. S., Özsoy A. L., Yıldırım Ç. V.

7th International Congress on Engineering and Technology Management, İstanbul, Turkey, 16 - 18 April 2022, pp.9-16

- V. **The Effect of Scanning Strategy and Scanning Angle on Surface Quality in the Production of AlSi10Mg Alloy Produced by SLM Method**
Özsoy A. L., Aydın D. S., Yıldırım Ç. V., Sarıkaya M.
7th International Congress on Engineering and Technology Management, İstanbul, Turkey, 16 - 18 April 2022, pp.1-9
- VI. **Investigation of Rheological and Tribological Properties of Surfactants**
Şirin Ş., Kıvak T., Yıldırım Ç. V., Sarıkaya M.
11th International Congress on Machining, İstanbul, Turkey, 9 - 11 December 2021, pp.308-315
- VII. **Improving the Surface Quality of AlSi10Mg Alloy Produced by SLM Method**
Özsoy A. L., Yıldırım Ç. V., Sarıkaya M., Şirin Ş., Kıvak T.
11th International Congress on Machining, İstanbul, Turkey, 9 - 11 December 2021, pp.1-13
- VIII. **BIOMIMETIC HORIZONTAL WIND TURBINE DESIGN AND EXPERIMENTAL INVESTIGATION**
Özdemir M., Uzun M., Yıldırım Ç. V.
6. Uluslararası GAP Matematik - Mühendislik - Fen ve Sağlık Bilimleri Kongresi, Şanlıurfa, Turkey, 26 - 27 June 2021, pp.334-345
- IX. **Biomimetic Wind Turbines: A Review**
Özdemir M., Yıldırım Ç. V., Uzun M., Çoban S.
2nd International Conference On Access To Recent Advances In Engineering And Digitalization, Kayseri, Turkey, 10 - 12 March 2021, pp.176-194
- X. **Numerical Analysis Of Aerodynamic Performance Of Bird Wing Shapes Inspired By Nature For Unmanned Aerial Vehicles**
Demir H. H., Yıldırım Ç. V., Uzun M.
III. International Istanbul Scientific Research Congress, İstanbul, Turkey, 8 - 10 January 2021, pp.71-78
- XI. **Effect of Nano Coolant on Cutting Temperature in Turning Inconel 625 with Ceramic Tools**
Yıldırım Ç. V.
7th International Symposium on Innovative Technologies in Engineering and Science, Şanlıurfa, Turkey, 22 - 24 November 2019, pp.370-380
- XII. **Effect of Al₂O₃ Based Nanofluid on Surface Roughness in Turning Inconel 625 with Ceramic Tools**
Yıldırım Ç. V., Kıvak T., Sarıkaya M.
10th International Congress on Machining, Antalya, Turkey, 7 - 09 November 2019, pp.244-251
- XIII. **Effect of Nano Additive Concentration Ratio on Cutting Temperature from Turning PH 13-8 Mo Steel**
Öndin O., Kıvak T., Yıldırım Ç. V.
10th International Congress on Machining, Antalya, Turkey, 7 - 09 November 2019, pp.262-267
- XIV. **Effects of Nano Graphite Addition to Vegetable Based Cutting Oil on Viscosity and Thermal Conductivity**
Şirin Ş., Kıvak T., Yıldırım Ç. V., Şirin E., Uygur İ.
6th International Symposium on Innovative Technologies in Engineering and Science, Antalya, Turkey, 9 - 11 November 2018, pp.488-497
- XV. **Effect of Nano Lubrication on Surface Roughness in Milling Difficult-to-Machine Materials**
Yıldırım Ç. V., Kıvak T., Şirin Ş.
II. International Congress of Multidisciplinary Studies, Adana, Turkey, 4 - 05 May 2018, pp.308-315
- XVI. **Optimization of Surface Roughness with Minimum Amount of Mineral Based Lubrication for Turning 100CR6 Bearing Steel**
Şirin Ş., Yıldırım Ç. V., Kıvak T.
II. International Congress of Multidisciplinary Studies, Adana, Turkey, 4 - 05 May 2018, pp.300-307
- XVII. **Optimization of surface roughness in milling PMD 23 steel using Taguchi method and fuzzy logic**
Kaya M., Kıvak T., Yıldırım Ç. V.
II. International INES Academic Researches Congress, Antalya, Turkey, 18 - 21 October 2017
- XVIII. **Optimization of minimum amount of lubrication parameters for milling Hastelloy C276**

Günan F., Kıvak T., Yıldırım Ç. V.

II. International INES Academic Researches Congress, Antalya, Turkey, 18 - 21 October 2017

XIX. Optimization of the Effect of Minimum Lubrication and Cutting Parameters on Cutting Force in the Milling of Inconel 718 with Ceramic Tools by Taguchi Method

Yıldırım Ç. V., Kıvak T.

International Engineering Research Symposium (UMAS'2017), Düzce, Turkey, 11 - 13 September 2017, pp.322-331

XX. Experimental investigation of the effect of minimum amount of lubrication (MMY) on surface roughness in milling 7075-T6 and 5083 Al alloys.

Çelik C., Yolcu S., Yıldırım Ç. V., Kıvak T.

International Engineering Research Symposium, Düzce, Turkey, 11 - 13 September 2017

XXI. Investigation of the effect of minimum amount of lubrication (MQL) on surface roughness when milling Inconel 718 with Sialon-based ceramic cutters.

Kıvak T., Yıldırım Ç. V., Şeker U.

5th International Symposium on Innovative Technologies in Engineering and Science, Baku, Azerbaijan, 29 - 30 September 2017

XXII. Investigation of Cutting Force in Milling of Nickel Based Waspaloy with WC Tools under Different Cooling/Lubrication Conditions

Yıldırım Ç. V., Kıvak T., Erzincanlı F.

5th International Symposium on Innovative Technologies in Engineering and Science, Baku, Azerbaijan, 29 - 30 September 2017

XXIII. INVESTIGATION OF THE EFFECT OF MINIMUM LUBRICATION MMY PARAMETERS ON SURFACE ROUGHNESS IN AISI 4340 TURNING

Yıldırım Ç. V., Kıvak T., Sarıkaya M., Mert Ş.

7th International Symposium On Machining, İstanbul, Turkey, 3 - 05 November 2016

XXIV. A REVIEW ON THE APPLICATIONS OF MINIMUM LUBRICATION TECHNIQUE IN DRILLING AND GRINDING OPERATIONS

Yıldırım Ç. V., Kıvak T., Erzincanlı F.

6. ULUSAL TALAŞLI İMALAT SEMPOZYUMU, İstanbul, Turkey, 5 - 07 November 2015

XXV. A REVIEW ON APPLICATION OF MILLING AND TURNING PROCESSES OF MINIMUM QUANTITY LUBRICATION SYSTEM

YILDIRIM Ç. V., KIVAK T., ERZİNCANLI F.

2. Uluslararası Demir Çelik Sempozyumu (IISS'15), 1 - 03 April 2015

Supported Projects

YILDIRIM Ç. V., SARIKAYA M., KIVAK T., ŞİRİN Ş., Project Supported by Higher Education Institutions, Hastelloy C4 Süper Alaşımının İşlenmesinde Nanoakışkan Kriyojenik ve Hibrit Soğutmanın Sürdürülebilir İmalat Reolojik ve Tribolojik Özelliklere Etkisi, 2022 - 2023

YILDIRIM Ç. V., AYDIN D. S., Project Supported by Higher Education Institutions, Ti6Al4V alaşımının Seçici Lazer Ergitme yöntemi ile üretilmesinde belirli üretim parametrelerinin malzeme özelliklerine etkisi, 2021 - 2022

YILDIRIM Ç. V., ÖZSOY A. L., Project Supported by Higher Education Institutions, AlSi10Mg Alaşımının Seçici Lazer Ergitme Yöntemiyle Üretilmesinde Üretim Parametrelerinin Malzeme Özelliklerine Etkisi, 2021 - 2022

YILDIRIM Ç. V., ÖZDEMİR M., Project Supported by Higher Education Institutions, Rüzgar Türbini Kanadının Biyomimetik Olarak Deneysel ve Sayısal Metotlarla Tasarlanması, 2020 - 2022

Yıldırım Ç. V., Yasakçı A., Project Supported by Higher Education Institutions, Al 2024 Alaşımının Tornalanmasında Molibden Disülfür Katkılı Nano Kesme Sıvısının İşleme Performansı Üzerindeki Etkisi, 2020 - 2021

YILDIRIM Ç. V., KIVAK T., ŞİRİN E., Project Supported by Higher Education Institutions, Hastelloy X Süper Alaşımının Delinmesinde Nanopartikül Katkılı Kesme Yağlarının ve Kriyojenik Soğutmanın İşleme Performansı Üzerindeki Etkilerinin İncelenmesi, 2019 - 2021

YILDIRIM Ç. V., Project Supported by Higher Education Institutions, Uçak Türbin Malzemelerinin İşlenmesinde Nano Partikül Katkılı Minimum Miktarda Yağlama ve Kriyojenik Soğutmanın Etkisi, 2018 - 2020
Yıldırım Ç. V., Kıvak T., Şirin Ş., Project Supported by Higher Education Institutions, Sürdürülebilir İmalat İçin Inconel X-750 Süper Alaşımının Frezelenmesinde Yenilikçi Soğutma/yağlama Tekniklerinin İşleme Performansı Üzerindeki Etkileri, 2017 - 2018
Yıldırım Ç. V., Kıvak T., Erzincanlı F., Sarıkaya M., Uygur İ., Project Supported by Higher Education Institutions, Nikel Esaslı Waspaloy Süper Alaşımının Minimum Miktarda Yağlama Tekniği Kullanılarak Frezede İşlenebilirliğinin Deneysel ve İstatistiksel Olarak Araştırılması, 2015 - 2016

Activities in Scientific Journals

Journal of Aerospace Science and Management (JASAM), Editor, 2021 - Continues
International Journal of Advanced Manufacturing Processes (IJAMP), Committee Member, 2020 - Continues
Journal of Production Systems & Manufacturing Science, Committee Member, 2020 - Continues
İmalat Teknolojileri ve Uygulamaları, Publication Committee Member, 2020 - Continues
İmalat Teknolojileri ve Uygulamaları, Advisory Committee Member, 2020 - Continues
Committee Member, 2018 - 2020

Scientific Refereeing

TRIBOLOGY INTERNATIONAL, Journal Indexed in SCI-E, February 2024
HELIYON, Journal Indexed in SCI-E, February 2024
SUSTAINABLE MATERIALS AND TECHNOLOGIES, Journal Indexed in SCI-E, February 2024
HELIYON, Journal Indexed in SCI-E, February 2024
İmalat Teknolojileri ve Uygulamaları (MATECA), Other Journals, November 2023
TRIBOLOGY INTERNATIONAL, SCI Journal, November 2023
Gazi Mühendislik Bilimleri Dergisi, Other Journals, November 2023
GAZI UNIVERSITY JOURNAL OF SCIENCE, Journal Indexed in SCI-E, November 2023
JOURNAL OF MANUFACTURING PROCESSES, Journal Indexed in SCI-E, September 2023
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, National Scientific Refreed Journal, August 2023
Gazi Mühendislik Bilimleri Dergisi, Other Indexed Journal, July 2023
SUSTAINABLE MATERIALS AND TECHNOLOGIES, Journal Indexed in SCI-E, July 2023
SUSTAINABLE MATERIALS AND TECHNOLOGIES, Journal Indexed in SCI-E, July 2023
JOURNAL OF MOLECULAR LIQUIDS, Journal Indexed in SCI-E, June 2023
TRIBOLOGY INTERNATIONAL, Journal Indexed in SCI-E, June 2023
TRIBOLOGY INTERNATIONAL, Journal Indexed in SCI-E, May 2023
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART E: JOURNAL OF PROCESS MECHANICAL ENGINEERING, Journal Indexed in SCI-E, May 2023
TRIBOLOGY INTERNATIONAL, Journal Indexed in SCI-E, May 2023
SUSTAINABLE MATERIALS AND TECHNOLOGIES, Journal Indexed in SCI-E, April 2023
JOURNAL OF MOLECULAR LIQUIDS, Journal Indexed in SCI-E, March 2023
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, National Scientific Refreed Journal, March 2023
TRIBOLOGY INTERNATIONAL, Journal Indexed in SCI-E, March 2023
TRIBOLOGY INTERNATIONAL, Journal Indexed in SCI-E, February 2023
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART E: JOURNAL OF PROCESS MECHANICAL ENGINEERING, Journal Indexed in SCI-E, February 2023
TRIBOLOGY INTERNATIONAL, SCI Journal, January 2023
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART E: JOURNAL OF PROCESS MECHANICAL ENGINEERING, SCI Journal, December 2022

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART E: JOURNAL OF PROCESS MECHANICAL ENGINEERING, SCI Journal, December 2022

JOURNAL OF MANUFACTURING PROCESSES, SCI Journal, November 2022

The Journal of Advances in Manufacturing Engineering, National Scientific Refreed Journal, November 2022

JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY, SCI Journal, November 2022

JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, SCI Journal, November 2022

TRIBOLOGY INTERNATIONAL, Journal Indexed in SCI-E, October 2022

Gazi Mühendislik Bilimleri Dergisi, National Scientific Refreed Journal, October 2022

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART E: JOURNAL OF PROCESS MECHANICAL ENGINEERING, Journal Indexed in SCI-E, September 2022

TRIBOLOGY INTERNATIONAL, Journal Indexed in SCI-E, September 2022

TRIBOLOGY INTERNATIONAL, Journal Indexed in SCI-E, August 2022

JOURNAL OF MANUFACTURING PROCESSES, Journal Indexed in SCI-E, August 2022

İmalat Teknolojileri ve Uygulamaları (MATECA), Other Journals, July 2022

TRIBOLOGY INTERNATIONAL, Journal Indexed in SCI-E, June 2022

SCIENTIFIC REPORTS, Journal Indexed in SCI-E, May 2022

JOURNAL OF ENGINEERING DESIGN AND TECHNOLOGY, Journal Indexed in ESCI, April 2022

TRIBOLOGY INTERNATIONAL, Journal Indexed in SCI-E, April 2022

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, SCI Journal, March 2022

INTERNATIONAL JOURNAL OF INNOVATIVE ENGINEERING APPLICATIONS, National Scientific Refreed Journal, March 2022

İmalat Teknolojileri ve Uygulamaları (MATECA), Other journals, March 2022

SURFACE REVIEW AND LETTERS, SCI Journal, March 2022

Materials and Technology, Other Indexed Journal, March 2022

SUSTAINABLE MATERIALS AND TECHNOLOGIES, Journal Indexed in SCI-E, February 2022

TRIBOLOGY INTERNATIONAL, Journal Indexed in SCI-E, January 2022

JOURNAL OF MANUFACTURING PROCESSES, Journal Indexed in SCI-E, January 2022

İmalat Teknolojileri ve Uygulamaları (MATECA), Other journals, December 2021

İmalat Teknolojileri ve Uygulamaları (MATECA), Other Journals, November 2021

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, Journal Indexed in SCI-E, November 2021

İmalat Teknolojileri ve Uygulamaları (MATECA), Other journals, November 2021

INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, Journal Indexed in SCI-E, November 2021

11. International Congress on Machining (UTIS'21), Conference Paper (Full Text), November 2021

İmalat Teknolojileri ve Uygulamaları (MATECA), Other journals, November 2021

11. International Congress On Machining (UTIS'21), Conference Paper (Full Text), November 2021

Gazi Mühendislik Bilimleri Dergisi (GMBD), Other Journals, November 2021

TRIBOLOGY INTERNATIONAL, Journal Indexed in SCI-E, October 2021

Gazi Mühendislik Bilimleri Dergisi (GMBD), Other Journals, September 2021

İmalat Teknolojileri ve Uygulamaları (MATECA), Other journals, August 2021

TRIBOLOGY INTERNATIONAL, Journal Indexed in SCI-E, August 2021

JOURNAL OF MANUFACTURING PROCESSES, Journal Indexed in SCI-E, July 2021

JOURNAL OF MANUFACTURING PROCESSES, Journal Indexed in SCI-E, July 2021

JOURNAL OF MANUFACTURING PROCESSES, Journal Indexed in SCI-E, July 2021

SUSTAINABLE MATERIALS AND TECHNOLOGIES, Journal Indexed in SCI-E, June 2021

TRIBOLOGY INTERNATIONAL, SCI Journal, May 2021

İmalat Teknolojileri ve Uygulamaları (MATECA), Other journals, March 2021

FIRAT ÜNİVERSİTESİ MÜHENDİSLİK BİLİMLERİ DERGİSİ, National Scientific Refreed Journal, February 2021

TRIBOLOGY INTERNATIONAL, SCI Journal, February 2021

JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, SCI Journal, February 2021

İmalat Teknolojileri ve Uygulamaları (MATECA), Other journals, January 2021

International Advanced Researches and Engineering Journal, Other Indexed Journal, January 2021

TRIBOLOGY INTERNATIONAL, SCI Journal, January 2021
DÜZCE ÜNİVERSİTESİ BİLİM VE TEKNOLOJİ DERGİSİ, National Scientific Refreed Journal, December 2020
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, SCI Journal, November 2020
İmalat Teknolojileri ve Uygulamaları (MATECA), Other journals, November 2020
Journal of Production Systems and Manufacturing Science, Other Indexed Journal, September 2020
Journal of Production Systems and Manufacturing Science, Other Indexed Journal, June 2020
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, SCI Journal, May 2020
TRIBOLOGY INTERNATIONAL, SCI Journal, April 2020
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, SCI Journal, April 2020
TUBITAK Project, 1501 - Industry R & D Projects Support Program, EGE SİSTEM BİLGİ İŞLEM SİS. YAZ. DAN. HİZ. SAN.TİC. LTD. ŞTİ. , Turkey, April 2020
JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, SCI Journal, March 2020
JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, SCI Journal, February 2020
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, SCI Journal, December 2019
TRIBOLOGY INTERNATIONAL, SCI Journal, November 2019
TRIBOLOGY INTERNATIONAL, SCI Journal, October 2019
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, Journal Indexed in SCI-E, June 2019
TUBITAK Project, 1501 - Industry R & D Projects Support Program, M.F.K. MAKİNA FREZE KALIP OTO YAN SANAYİ İMALAT İNŞAAT VE PAZARLAMA SANAYİ VE TİCARET LİMİTED ŞİRKETİ, Turkey, March 2019
Journal Of The Brazilian Society Of Mechanical Sciences And Engineering, Journal Indexed in SCI-E, February 2019

Tasks In Event Organizations

Yıldırım Ç. V., BOŞGELMEZ İ. İ., 10th International Conference on Materials Science and Nanotechnology for Next Generation, MSNG2023, Scientific Congress, Kayseri, Turkey, Eylül 2023
Yıldırım Ç. V., 11. International Congress on Machining, Scientific Congress, Antalya, Turkey, Aralık 2021
Yıldırım Ç. V., Uluslararası Mühendislik Bilimleri ve Multidisipliner Yaklaşımlar Kongresi, Scientific Congress, İstanbul, Turkey, Şubat 2021

Metrics

Publication: 67
Citation (WoS): 1450
Citation (Scopus): 1954
H-Index (WoS): 21
H-Index (Scopus): 22

Congress and Symposium Activities

11th INTERNATIONAL CONGRESS ON MACHINING, Attendee, İstanbul, Turkey, 2021
7th International Symposium on Innovative Technologies in Engineering and Science, Session Moderator, Şanlıurfa, Turkey, 2019
10th International Congress on Machining, Attendee, Antalya, Turkey, 2019
6th International Symposium on Innovative Technologies in Engineering and Science, Attendee, Antalya, Turkey, 2018
II. ULUSLARARASI MULTİDİSİPLİNER ÇALIŞMALARI KONGRESİ, Attendee, Adana, Turkey, 2018
INTERNATIONAL ACADEMIC RESEARCH CONGRESS (INES'17), Attendee, Antalya, Turkey, 2017
5th International Symposium on Innovative Technologies in Engineering and Science (ISITES2017), Attendee, Baku,

Azerbaijan, 2017

International Engineering Research Symposium, Attendee, Duzce, Turkey, 2017

7th International Symposium On Machining, Attendee, Turkey, 2016

6. Ulusal Talash İmalat Sempozyumu, Attendee, İstanbul, Turkey, 2015

2. Uluslar arası Demir Çelik Sempozyumu (IISS'15), Attendee, Karabük, Turkey, 2015

Invited Talks

Ekllemeli İmalata Giriş ve 3 Boyutlu Yazdırmanın Önemi, Conference, Curriculum Material Development in Vocational Education Through 3D Printing, Turkey, December 2022

Awards

Yıldırım Ç. V., Among World's Top 2% Scientists in a Scientific Field, Stanford University, October 2023

Yıldırım Ç. V., TÜBİTAK Yayın Teşvik Ödülü, Tübitak, June 2023

Yıldırım Ç. V., Among World's Top 2% Scientists in a Scientific Field, Stanford University, October 2022

Yıldırım Ç. V., TÜBİTAK Yayın Teşvik Ödülü, Tübitak, June 2022

Yıldırım Ç. V., Among World's Top 2% Scientists in a Scientific Field, Stanford University, September 2021

Yıldırım Ç. V., TÜBİTAK Yayın Teşvik Ödülü, Tübitak, June 2021

Yıldırım Ç. V., TÜBİTAK Yayın Teşvik Ödülü, Tübitak, June 2020

Non Academic Experience

Tüpyap Alüminyum Ltd. Şti.

Birikim Makina