

## Prof. Ayşegül AKDOĞAN EKER

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAZ-6045-2020

ScopusID: 37048557500

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### Education Information

Doctorate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Makine Mühendisliği, Turkey  
1983 - 1987

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği, Turkey 1979 - 1981

Undergraduate, Yıldız Technical University, Kimya Mühendisliği, Kimya Mühendisliği, Turkey 1974 - 1978

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Alüminyum alaşımlarının otomotiv sektöründeki kullanımı, Yıldız Teknik Üniversitesi, Faculty of Mechanical Engineering, Makine Mühendisliği, 1987

### Research Areas

Mechanical Engineering, Energy, Wind power, Construction and Manufacturing, Tribology, Machine Design, NDT Engineering, Casting Methods, Material, Metallurgical and Materials Engineering, Material science and engineering, Testing and Control of Materials, Mechanical Properties, Corrosion and Corrosion Protection, Composites, Polymeric Materials, Biomaterials, Thermal Treatment, Material Characterization, Metallic Materials, Nanomaterials, Engineering and Technology

### Academic Titles / Tasks

Professor, Yıldız Technical University, Faculty Of Mechanical Engineering, Machine, 2000 - Continues

Associate Professor, Yıldız Technical University, Faculty Of Mechanical Engineering, Machine, 1994 - 2000

Assistant Professor, Yıldız Technical University, Faculty Of Mechanical Engineering, Machine, 1993 - 1994

Research Assistant, Yıldız Technical University, Faculty Of Mechanical Engineering, Machine, 1980 - 1992

## Academic and Administrative Experience

University Executive Board Member, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2021 - Continues

Fakülte Kurulu Üyesi, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2021 - Continues

Yıldız Teknik Üniversitesi, Makina Fakültesi, Makina Mühendisliği , 2010 - 2017

## Advising Theses

Akdoğan Eker A., OTOMOTİV SEKTÖRÜNDE KULLANILMAK ÜZERE ÇEVRE DOSTU YENİ NESİL DOĞAL LİF TAKVİYELİ KOMPOZİT MALZEMELERİN GELİŞTİRİLMESİ, Doctorate, A.AVCI(Student), 2022

Akdoğan Eker A., Küçükylırım B. O., Fırtına Obüsün Silah Sistemi Üzerinde Bulunan Gaz Paftasının Kullanım Ömrünün Arttırılması, Postgraduate, M.Samir(Student), 2016

## Research Infrastructure Information

Akdoğan Eker A., Küçükylırım B. O., Avcı A., YTÜ Advanced Materials Research Group, January 2014

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

- I. **Enhanced CMAS and hot corrosion degradation of YSZ thermal barrier coating with nano powders**  
ÖZÇELİK A., AKDOĞAN EKER A., KARABAŞ M., AVCI A., KÜÇÜKYILDIRIM B. O.  
Surface and Coatings Technology, vol.481, 2024 (SCI-Expanded)
- II. **Improvement of CMAS resistance of laser glazed and nano-modified YSZ thermal barrier coatings**  
AVCI A., Karabaş M., AKDOĞAN EKER A., AKMAN E., Aslan C.  
Ceramics International, vol.50, no.7, pp.9985-9999, 2024 (SCI-Expanded)
- III. **The effects of various boron compounds on the thermal, microstructural and mechanical properties of PLA biocomposites**  
Avcı A., AKDOĞAN EKER A., BODUR M. S., KÜÇÜKYILDIRIM B. O.  
Thermochimica Acta, vol.731, 2024 (SCI-Expanded)
- IV. **Effects of different design and lightweight material on energy distribution and collision characteristics for hot-formed B-pillar using finite element simulation**  
Barut E., Eker A. A., Yöntem O.  
Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2024 (SCI-Expanded)
- V. **Hot corrosion and CMAS degradation of laser-glazed YSZ coating with optimum parameter**  
Avcı A., Karabaş M., AKDOĞAN EKER A., AKMAN E., Aslan C.  
Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, vol.237, no.11, pp.2722-2734, 2023 (SCI-Expanded)
- VI. **Hot corrosion behavior of CYSZ thermal barrier coating with optimized laser surface modification**  
Avcı A., Karabaş M., AKDOĞAN EKER A., AKMAN E., Aslan C.  
Ceramics International, vol.49, no.19, pp.31396-31404, 2023 (SCI-Expanded)
- VII. **Water absorption characterization of boron compounds-reinforced PLA/flax fiber sustainable composite.**  
Avcı A., Eker A., Bodur M. S., Candan Z.  
International journal of biological macromolecules, vol.233, pp.123546, 2023 (SCI-Expanded)
- VIII. **An experimental investigation on the thermal and mechanical characterization of boron/flax/PLA**

## **sustainable composite**

Avcı A., Eker A. A., Bodur M. S., Candan Z.

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART L-JOURNAL OF MATERIALS-DESIGN AND APPLICATIONS, vol.236, pp.2561-2573, 2022 (SCI-Expanded)

- IX. **Polyurethane foam materials and their industrial applications**  
Ates M., Karadag S., AKDOĞAN EKER A., Eker B.  
POLYMER INTERNATIONAL, vol.71, no.10, pp.1157-1163, 2022 (SCI-Expanded)
- X. **Influence of Compatibilization and Internal Lubricant on the Mechanical and Thermo-mechanical Properties of PLA/TPU Compound**  
Avcı A., AKDOĞAN EKER A., BODUR M. S.  
POLYMER-KOREA, vol.46, no.5, pp.671-683, 2022 (SCI-Expanded)
- XI. **Effect of titanium dioxide nanotubes on the mechanical and antibacterial properties of the low-viscosity bulk-fill composite**  
Ozlen R. H. E., DALKILIÇ E., KÜÇÜKYILDIRIM B. O., AKDOĞAN EKER A., Topcuoglu N., Kulekci G.  
JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY, vol.36, no.16, pp.1727-1744, 2022 (SCI-Expanded)
- XII. **Influence of Sliding Rate and Load with Friction on NiTi Shape Memory Alloy Wear Resistance**  
AVCI A., AKDOĞAN EKER A., KÜÇÜKYILDIRIM B. O.  
METAL SCIENCE AND HEAT TREATMENT, vol.64, pp.211-218, 2022 (SCI-Expanded)
- XIII. **Numerical simulation and experimental analysis for evaluating warpage of a 3D thin-walled polymeric part using the injection compression molding process**  
SÖNMEZ D., AKDOĞAN EKER A.  
INTERNATIONAL POLYMER PROCESSING, vol.37, no.2, pp.164-175, 2022 (SCI-Expanded)
- XIV. **Effect of coupling agent and alkali treatment on mechanical, thermal and morphological properties of flax-fiber-reinforced PLA composites**  
Avcı A., AKDOĞAN EKER A., Bodur M. S.  
GREEN MATERIALS, vol.9, no.3, pp.131-144, 2021 (SCI-Expanded)
- XV. **Numerical Simulation and Process Optimization of a 3D Thin-Walled Polymeric Part Using Injection Compression Molding**  
Sonmez D., Eker A.  
INTERNATIONAL POLYMER PROCESSING, vol.36, no.4, pp.459-467, 2021 (SCI-Expanded)
- XVI. **Fabrication of carbon nanotube reinforced aluminum alloy composites by vacuum-assisted infiltration technique**  
KÜÇÜKYILDIRIM B. O., AKDOĞAN EKER A.  
Journal of Composite Materials, vol.55, pp.2225-2235, 2021 (SCI-Expanded)
- XVII. **Neutron shielding characteristics of polymer composites with boron carbide**  
Tuna T., AKDOĞAN EKER A., Kam E.  
JOURNAL OF THE KOREAN PHYSICAL SOCIETY, vol.78, no.7, pp.566-573, 2021 (SCI-Expanded)
- XVIII. **Effects of Sonication Time on the Stability and Viscosity of Functionalized MWCNT-Based Nanolubricants**  
Dalkılıç A. S., Küçükıldırım B. O., Akdoğan Eker A., Yıldız F., Akpınar A., Jumholkul C., Wongwises S.  
Current Nanoscience, vol.16, no.4, pp.639-654, 2020 (SCI-Expanded)
- XIX. **An investigation of oxidation, hot corrosion, and thermal shock behavior of atmospheric plasma-sprayed YSZ-Al<sub>2</sub>O<sub>3</sub> composite thermal barrier coatings**  
Avcı A., Akdoğan Eker A., Karabaş M.  
International Journal Of Materials Research, vol.111, pp.1-14, 2020 (SCI-Expanded)
- XX. **Histopathological, immunohistochemical, and biomechanical effects of splenectomy on Achilles tendon healing in rats**  
Yüksel S., Gulec M. A., Gültekin Z., Çağlar A., Beytemur O., Alagöz E., Eker A., Subaşı C., Karaöz E.  
CONNECTIVE TISSUE RESEARCH, vol.60, pp.200-208, 2019 (SCI-Expanded)
- XXI. **Experimental study on the thermal conductivity of water-based CNT-SiO<sub>2</sub> hybrid nanofluids**  
Dalkılıç A. S., Yalçın G., Küçükıldırım B. O., Öztuna S., Akdoğan Eker A., Jumholkul C., Nakkaew S., Wongwises S.

- International Communications in Heat and Mass Transfer, vol.99, pp.18-25, 2018 (SCI-Expanded)
- XXII. **Experimental investigation on the viscosity characteristics of water based SiO<sub>2</sub>-graphite hybrid nanofluids**  
DALKILIÇ A. S., AÇIKGÖZ Ö., KÜÇÜKYILDIRIM B. O., Eker A., Lüleci B., Jumpholkul C., Wongwises S.  
International Communications in Heat and Mass Transfer, vol.97, pp.30-38, 2018 (SCI-Expanded)
- XXIII. **Experimental Study on the Stability and Viscosity for the Blends of Functionalized MWCNTs with Refrigeration Compressor Oils**  
Dalkilic A. S., Mahian O., Kucukyildirim B. O., Eker A. A., Ozturk T. H., Jumpholkul C., Wongwises S.  
CURRENT NANOSCIENCE, vol.14, pp.216-226, 2018 (SCI-Expanded)
- XXIV. **Carbon nanotube-based nanocomposites and their applications**  
Ates M., Eker A., Eker B.  
Journal of Adhesion Science and Technology, vol.31, pp.1977-1997, 2017 (SCI-Expanded)
- XXV. **Experimental investigation on the viscosity of Water-CNT and Antifreeze-CNT nanofluids**  
Dalkılıç A. S., Küçükyıldırım B. O., Eker A., Cebı A., Tapan S., Jumpholkul C., Wongwises S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.80, pp.47-59, 2017 (SCI-Expanded)
- XXVI. **Surface Roughness Changes on  $\beta$ -Titanium Orthodontic Wires after Corrosion in Various Artificial Saliva Solutions**  
Kucukyildirim B. O., Akdoğan Eker A.  
Materialprufung, vol.55, no.5, pp.374-378, 2013 (SCI-Expanded)
- XXVII. **Creep Behaviour of Near-Equiatomic Nickel-Titanium Wires**  
Eker A., SONMEZ D., KUCUKYILDIRIM B. O.  
MATERIALS TESTING, vol.55, no.2, pp.92-95, 2013 (SCI-Expanded)
- XXVIII. **Surface roughness changes on  $\beta$ -Titanium Orthodontic wires after corrosion in various artificial saliva solutions**  
Kucukyildirim B. O., Akdogan Eker A.  
Materialpruefung/Materials Testing, vol.55, no.5, pp.374-378, 2013 (SCI-Expanded)
- XXIX. **Fabrication and mechanical properties OF CNT/6063 Al composites prepared by vacuum assisted infiltration technique using CNT-Al preforms**  
Küçükyıldırım B. O., Eker A.  
Advanced Composites Letters, vol.21, no.5, pp.125-130, 2012 (SCI-Expanded)
- XXX. **Surface Roughness Changes and Corrosion on Nickel Titanium Orthodontic Wires Compared to Stainless Steel Wires in Various Artificial Salivas**  
Küçükyıldırım B. O., Eker A. A.  
MATERIALS TESTING, vol.54, pp.261-265, 2012 (SCI-Expanded)
- XXXI. **Analysis of microstructures and mechanical properties of particle reinforced AlSi7Mg2 matrix composite materials**  
Şahin İ., Eker A.  
Journal of Materials Engineering and Performance, vol.20, no.6, pp.1090-1096, 2011 (SCI-Expanded)
- XXXII. **The Lineer Relationship Between Compressive Strength and Ultrasonic Velocity in Castable Refractories**  
AKDOĞAN EKER A.  
Key Engineering Materials, vol.264, pp.1823-1826, 2004 (SCI-Expanded)

## Articles Published in Other Journals

- I. **TIPS FOR A SUCCESSFUL APPLICATION OF INNOVATION IN A BUSINESS**  
EKER B., AKDOĞAN EKER A.  
Association for Scientific Publishing and Research, vol.1, 2023 (Peer-Reviewed Journal)
- II. **QUALITY CRITERIA IN UNİVERSITIES**  
EKER B., AKDOĞAN EKER A.

Journal of Innovations in Business and Industry, vol.1, no.2, pp.65-70, 2023 (Peer-Reviewed Journal)

- III. **YSZ Termal Bariyer Kaplamanın Elektroforetik Nano-YSZ Kaplama ile Korozyon Direncinin İyileştirilmesi**  
AKDOĞAN EKER A., KARABAŞ M., AVCI A., Özçelik A.  
IJANSER, vol.7, pp.371-382, 2023 (Peer-Reviewed Journal)
- IV. **Examination of Water Uptake Performance and Mechanical Properties of PLA/Flax Fiber Biocomposites With The Coupling Agent**  
AVCI A., AKDOĞAN EKER A., BAKKAL M., BODUR M. S.  
Synthesis and Sintering, vol.2, pp.55-61, 2022 (Peer-Reviewed Journal)
- V. **Material selection in hot shaping molds of titanium alloys**  
Akdoğan Eker A., Avci A., Aydogan C. S., Aydın H., Erol E.  
Procedia Manufacturing Open access, vol.50, no.1, pp.723-728, 2020 (Peer-Reviewed Journal)
- VI. **Evaluation of Dispersion Based Prediction Model Calculations by Using Experimental Compressive Strength Results of Carbon Nanotube Reinforced Aluminum Matrix Composites**  
KÜÇÜKYILDIRIM B. O., Akdogan Eker A.  
Journal of Materials Science and Engineering, 2015 (Peer-Reviewed Journal)
- VII. **Savunma Sanayinde Kullanılan İleri Kompozit Malzemeler ve Uygulama Alanları**  
ERYILDIZ E., AKDOĞAN EKER A.  
International Journal Of Engineering Research and Developed, vol.7, no.4, 2015 (Peer-Reviewed Journal)
- VIII. **Evaluation of Dispersion Based Calculations Compared to the Experimental Compressive Strength Results of CNT 6063Al Composites**  
Küçükyıldırım B. O., Akdoğan Eker A.  
Journal of Materials Science and Engineering B, vol.4, pp.353-357, 2014 (Peer-Reviewed Journal)
- IX. **A Novel Technique for Carbon Nanotube Reinforced Metal Matrix Composite Fabrication**  
KÜÇÜKYILDIRIM B. O., AKDOĞAN EKER A.  
Academic Journal of Science, vol.1, no.2, pp.171-181, 2014 (Peer-Reviewed Journal)
- X. **Effect of cold deformation to transformation temperatures of Ni-Ti shape memory alloys**  
Yıldız C., Küçükyıldırım B. O., Akdoğan Eker A.  
Archives of Materials Science and Engineering, vol.66, pp.37-44, 2014 (Scopus)
- XI. **Quality parameters in nanotechnologic applications**  
Eker A., KÜÇÜKYILDIRIM B. O.  
International Journal for Quality Research, vol.7, no.2, pp.265-270, 2013 (ESCI)
- XII. **Karbon Nanotüpler Sentezleme Yöntemleri ve Kullanım Alanları**  
KÜÇÜKYILDIRIM B. O., AKDOĞAN EKER A.  
Mühendis ve Makina Dergisi, vol.53, no.630, pp.34-44, 2012 (Peer-Reviewed Journal)
- XIII. **Mechanical Behavior of Industrial Grade MWCNT and Glass Fiber Reinforced Polyester Hybrid Nanocomposites**  
Küçükyıldırım B. O., Akdoğan Eker A.  
International Journal of Arts and Sciences, vol.3, no.9, pp.252-257, 2010 (Peer-Reviewed Journal)
- XIV. **Usage of Carbon Nanotubes in Scanning Probe Microscopes as Probe**  
KÜÇÜKYILDIRIM B. O., AKDOĞAN EKER A., EKER B.  
International Journal of Arts and Sciences, vol.3, no.1, pp.18-26, 2009 (Peer-Reviewed Journal)
- XV. **Nano Malzemelere Uygulanan Muayeneler**  
KÜÇÜKYILDIRIM B. O., AKDOĞAN EKER A.  
Makinatek, vol.124, pp.78-82, 2008 (Non Peer-Reviewed Journal)
- XVI. **Nanoteknoloji ve Nanorobotlar**  
KÜÇÜKYILDIRIM B. O., AKDOĞAN EKER A.  
Makinatek, vol.112, pp.78-82, 2007 (Non Peer-Reviewed Journal)
- XVII. **Using of Composite in Wind Turbine Blades**  
AKDOĞAN EKER A.  
Journal of Applied Sciences, vol.6, no.14, pp.2917-2921, 2006 (Peer-Reviewed Journal)

- XVIII. **Nanomalzemeler ve Uygulamaları**  
AKDOĞAN EKER A., KÜÇÜKYILDIRIM B. O.  
Makinatek, vol.99, pp.114-117, 2006 (Non Peer-Reviewed Journal)
- XIX. **NiTi Şekil Hafızalı Alaşım Üretimi**  
AKDOĞAN EKER A.  
MakineTek, 2005 (Peer-Reviewed Journal)
- XX. **Tarım Makinelerinde Yeni Malzeme Arayışı**  
AKDOĞAN EKER A.  
Machinery Makine Tek., pp.102-106, 2005 (Peer-Reviewed Journal)
- XXI. **Akıllı Malzemeler**  
AKDOĞAN EKER A.  
Machinery Makine Tek., pp.60-64, 2004 (Peer-Reviewed Journal)
- XXII. **Makina İmalat İşletmelerinde 6 Sigma Yaklaşımı**  
EKER B., AKDOĞAN EKER A.  
MAKİNA-TEK Aylık İmalat ve Teknoloji Kültürü Dergisi, 2003 (Peer-Reviewed Journal)
- XXIII. **Şekil Hafızalı Alaşımlar**  
AKDOĞAN EKER A.  
Mühendis ve Makine, no.521, pp.35-45, 2003 (Peer-Reviewed Journal)
- XXIV. **Tarım Mühendisliğinde Plastik Matriksli Kompozit Malzemelerin Kullanımı**  
AKDOĞAN EKER A.  
Makine Tek, pp.54-57, 2003 (Peer-Reviewed Journal)
- XXV. **Şekil Hafızalı Alaşımlar ve Temel Özellikleri**  
AKDOĞAN EKER A.  
Makine Tek, no.64, pp.52-59, 2003 (Peer-Reviewed Journal)

## **Books & Book Chapters**

- I. **Doğal Lif Takviyeler**  
AVCI A., AKDOĞAN EKER A., BODUR M. S.  
in: Mühendislik Bilimleri alanında Yeni Terendler, Birol KILIÇ, Gülden BAŞYİĞİT KILIÇ, Editor, DUVAR, Ankara, pp.47-61, 2022
- II. **Biyokompozitlerin Termal Özellikleri**  
AVCI A., AKDOĞAN EKER A., BODUR M. S.  
in: Mühendislik Bilimleri alanında Yeni Trendler, Birpl KILIÇ, Gülden BAŞYİĞİT KILIÇ, Editor, DUVAR Yayınları, Ankara, pp.721-742, 2022
- III. **3.5**  
AVCI A., AKDOĞAN EKER A., EKER B.  
in: Exergetic, Energetic and Environmental Dimensions Bölüm :MICROSTRUCTURE AND OXIDATION BEHAVIOR OF ATMOSPHERIC PLASMA SPRAYED THERMAL BARRIER COATINGS, Ibrahim Dincer C. Ozgur Colpan Onder Kizilkan, Editor, Elsevier, pp.793-814, 2018
- IV. **Microstructure and Oxidation Behavior of Atmospheric Plasma Sprayed Thermal Barrier Coatings**  
Avcı A., Akdoğan Eker A., Eker B.  
in: Exergetic, Energetic and Environmental Dimensions, Ibrahim DINCER, Can Ozgur Colpan, Onder Kizilkan, Editor, Elsevier Science, Oxford/Amsterdam , Oshawa, pp.793-814, 2018
- V. **General Assessment of Fiber-Reinforced Composites Selection in Wind Turbine Blades Ch.4**  
AKDOĞAN EKER A.  
in: Recent Advances in Composite Materials for Wind Turbine Blades, Dr. Brahim Attaf, Editor, The World Academic Publishing Co. Ltd., Hongkong, pp.61-77, 2013
- VI. **Chapter 4 General Assessment of Fiber-Reinforced Composites Selection in Wind Turbine Blades**  
AKDOĞAN EKER A., EKER B.

in: Recent Advances in Composite Materials For Wind Turbine Blades, Dr.Brahim Attaf, Editor, The Word Academic Publishing Co.Ltd, pp.61-78, 2013

- VII. **Otomotiv Sanayiinde Kullanılan Degisik Kaplamaların Bazı Malzemeler Üzerindeki Etkileri**  
AKDOĞAN EKER A.  
Hasad Yayıncılık, İstanbul, 2000

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **An Experimental Study on the Thermal Properties of Boron/PLA Sustainable Biocomposites**  
AVCI A., AKDOĞAN EKER A., BODUR M. S.  
6th INTERNATIONAL CONFERENCE ON ADVANCES IN NATURAL & APPLIED SCIENCE MATERIALS SCIENCE, Ağrı, Turkey, 11 - 13 October 2022, pp.203-208
- II. **The Effect of Ulexite Compound on The Mechanical Properties of the PLA Matrix**  
AVCI A., AKDOĞAN EKER A., BODUR M. S.  
6th INTERNATIONAL CONFERENCE ON ADVANCES IN NATURAL & APPLIED SCIENCE MATERIALS SCIENCE, Ağrı, Turkey, 11 - 13 October 2022, pp.209-213
- III. **EFFECT OF LASER SURFACE MODIFICATION ON HOT CORROSION BEHAVIOR OF CYSZ AND YSZ THERMAL BARRIER COATINGS**  
AVCI A., KARABAŞ M., AKMAN E., AKDOĞAN EKER A., Aslan C.  
6th INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, Turkey, 20 October 2021, pp.423-431
- IV. **INVESTIGATION OF WATER UPTAKE PERFORMANCE OF PLA/FLAX FIBER GREEN COMPOSITES WITH ALKALI TREATMENT**  
AVCI A., AKDOĞAN EKER A., BODUR S.  
6th INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, Turkey, 20 October 2021, pp.432-437
- V. **EFFECT OF WATER UPTAKE PERFORMANCE OF PLA/FLAX FIBER GREEN COMPOSITES ON THE IMPACT BEHAVIOUR**  
AVCI A., AKDOĞAN EKER A., BODUR M. S.  
International Conference on Nuclear Technology, Radiation Safety and Advanced Technological Researches (ICNRA2021), Turkey, 10 - 11 December 2021
- VI. **INVESTIGATION OF MECHANICAL AND THERMOS MECHANICAL BEHAVIOR OF FLAX FIBER-REINFORCED PLA BIO-COMPOSITES WITH A COUPLING AGENT AND INTERNAL LUBRICANT**  
AVCI A., AKDOĞAN EKER A., BODUR M. S.  
6th INTERNATIONAL CONGRESS ON ENGINEERING, ARCHITECTURE AND DESIGN, İstanbul, Turkey, 17 - 18 December 2020, pp.531-540
- VII. **SELECTION CRITERIA OF MATERIALS USED IN 3D PRINTERS**  
AKDOĞAN EKER A.  
Quality Festival 2019, 20 May - 01 June 2019, pp.487-493
- VIII. **ZİRKONYA ESASLI TERMAL BARIYER KAPLAMALARIN OPTİMUM LAZER YÜZEY MODİFİKASYON PARAMETRELERİNİN BELİRLENMESİ**  
AKDOĞAN EKER A., AVCI A., KARABAŞ M., Aslan C., AKMAN E.  
4. ULUSLARARASIMÜHENDİSLİK, MİMARLIK VE TASARIM KONGRESİ, 23 - 24 April 2019, pp.304-312
- IX. **EFFECT OF THE EXTRUSION PARAMETERS ON THE MECHANICAL PROPERTIES OF NATURAL FIBER REINFORCED COMPOSITES**  
BAYSAN A. A., AVCI A., BODUR S., AKDOĞAN EKER A., BAKKAL M.  
4.LUSLARARASI MUHENDİSLİK MİMARLIK VE TASARIM KONGRESİ 23 Nisan 2019, ss.530-539, 23 - 24 April 2019, pp.530-539
- X. **ALÜMİNYUM EKSTRÜZYON PROFİLLERDE SOĞUMA İZİ HATASININ OLUŞUM NEDENLERİ VE HATANIN ÇÖZÜMÜ ÜZERİNE YENİLİKÇİ YAKLAŞIMLAR .....**

AKDOĞAN EKER A., KÜÇÜKYILDIRIM B. O., DEMİR U.

4 INTERNATIONAL CONGRESS ON ENGINEERING, ARCHITECTURE AND DESIGN, 23 - 24 April 2019, vol.1, pp.105-113

- XI. **ZİKKONYA ESASLI TERMAL BARİYER KAPLAMALARIN OPTİMUM LAZER YÜZEY MODİFİKASYON PARAMETRELERİNİN BELİRLENMESİ**  
ASLAN C., AKDOĞAN EKER A., AKMAN E., AVCI A., Karabaş M.  
4.LUSLARARASI MUHENDİSLİK MİMARLIK VE TASARIM KONGRESİ, İstanbul, Turkey, 23 April 2019, pp.304-312
- XII. **DETERMINATION OF THE VISCOSITY CHARACTERISTICS OF WATER BASED SiO<sub>2</sub>-GRAPHITE HYBRID NANOFLUIDS**  
Dalkılıç A. S., Açıkgöz Ö., Küçükyıldırım B. O., Akdoğan Eker A.  
4TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2018, 19-21 DECEMBER 2018, İstanbul, Turkey, 19 - 21 December 2018, vol.1, pp.1844-1855
- XIII. **THE IMPACT OF THE USE OF INDUSTRIAL ROBOTS ON EFFICIENCY INCREASE**  
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## Scientific Research / Working Group Memberships

Advanced Materials Research Group, Yıldız Technical University, Türkiye, <http://amrg.yildiz.edu.tr>, 2014 - Continues

## Metrics

Publication: 184

Citation (WoS): 252

Citation (Scopus): 376

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### **Congress and Symposium Activities**

Balkan'17 Tribology, Attendee, Nevşehir, Turkey, 2017

Balkan TRib'17 Tribology 9'th International Conference on Tribology, Session Moderator, Nevşehir, Turkey, 2017

3.Uluslararası Mühendislik ve Tasarım Kongresi, Attendee, Kocaeli, Turkey, 2017

3.Uluslararası Mühendislik Mimarlık ve Tasarım Kongresi, Moderator, Kocaeli, Turkey, 2017

### **Non Academic Experience**

Yıldız Teknik Üniversitesi