

## Personal Information

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## International Researcher IDs

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Publons / Web Of Science ResearcherID: A-7594-2019

ScopusID: 28067622300

Yoksis Researcher ID: 9127

## Education Information

Post Doctorate, Technische Universitaet Braunschweig, Microtechnic Institute, Microtechnic Institute, Germany 2023 - 2024

Post Doctorate, Universite de Bourgogne, Ecole d'ingénieurs automobile, aéronautique et transports, Ecole d'ingénieurs automobile, aéronautique et transports, France 2014 - 2015

Doctorate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Metal Education, Turkey 2009 - 2012

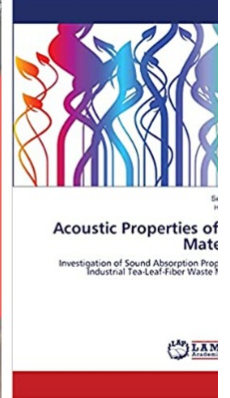
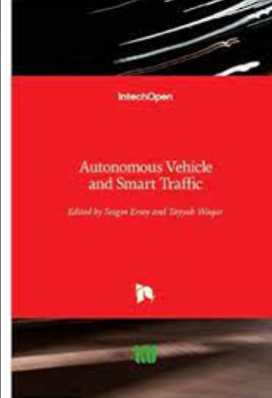
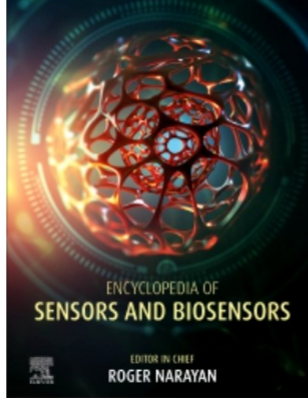
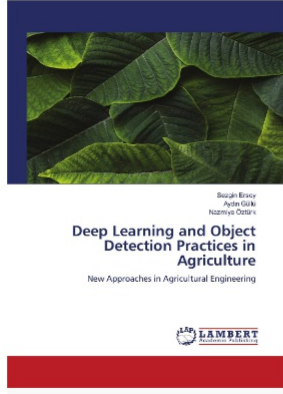
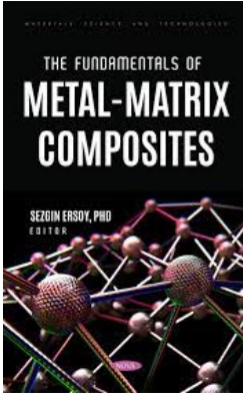
Postgraduate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Mekatronik (YI) (Tezli), Turkey 2005 - 2007

Postgraduate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Technology Education, Turkey 2002 - 2004

Undergraduate, Marmara University, Faculty of Technical Education, Machine Education, Turkey 1995 - 2000

## Biography

Sezgin Ersoy is a Professor of Mechatronics Engineering and Material Science. After graduating from Marmara University, he became a faculty member at the same university. His publications include a variety of efforts to understand changes in automotive mechatronics, polymer science, and biomedical technologies. He was granted a fellowship at the TÜBİTAK at Bourgogne University ISAT and spent one year as a visiting fellow there to study several projects between 2014 through 2015. He is the author of chapter Science Education in a Rapidly Changing World, USA 2011, and the author in Acoustic Properties of Bio-Materials, Stuttgart, 2010. He has two science national awards and is an Editorial Member of several scientific journals.



## Foreign Languages

German, B1 Intermediate

English, B2 Upper Intermediate

Russian, A1 Beginner

## Certificates, Courses and Trainings

Quality Management, 2021 Yılı Başlangıç Düzeyi Değerlendirici Eğitimi Programı, Yükseköğretim Kalite Kurulu (YÖKAK) , 2021

Vocational Course, Yüksek Başarımlı Çizge Analizi, Ulakbim, 2021

Vocational Course, Malzeme Biliminde Yüksek Başarımlı Hesaplama ve TRUBA Süperbilgisayarlar ile LAMMPS Uygulaması, Ulakbim, 2020

Innovation, See The Future, Enago, 2020

Entrepreneurship, Teknoloji Transferi Mesleği Tanımı ve Yeterlilik Koşulları, USIMP, 2020

Technology Assessment, Sağlık Sektöründe Yerli Üretim Değerlendirilmesi, USIMP, 2020

Project Management, MITTO Mentör Havuzu Eğitim, Marmara Üniversitesi MITTO, 2020

Vocational Course, Non-Contact 3D Optical Profiler Used in Thin Film and Surface Metrology Techniques, Marmara Üniversitesi, 2018

## Dissertations

Doctorate, HDPE / ZnO - SiO<sub>2</sub> - CaCO<sub>3</sub> - Mg(OH)<sub>2</sub> nano-polimerinin mekanik, ısı ve fiziksel özelliklerinin incelenmesi, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Metal Eğitimi (Dr), 2012  
Postgraduate, Endüstriyel çay yaprak fiber atıklarının ses yutum özelliklerinin incelenmesi, Marmara Üniversitesi, Institute for Graduate Studies in Pure and Applied Sciences, Mekatronik (YI) (Tezli), 2007  
Postgraduate, Sanayide staj yapan meslek lisesi son sınıf öğrencilerinin iş güvenliği konusunda karşılaştıkları sorunlar ve çözüm önerileri, Marmara Üniversitesi, Institute for Graduate Studies in Pure and Applied Sciences, Teknoloji Eğitimi (YI) (Tezli), 2004

## Research Areas

Biomedical Engineering, Mechanical Engineering, Machine Theory and Dynamics, Mechanical, Metallurgical and Materials Engineering, Material science and engineering, Testing and Control of Materials, Mechanical Properties, Composites, Polymeric Materials, Biomaterials, Material Characterization, Mechanical Metallurgy, Nanomaterials, Non Metallic Materials Production, Engineering and Technology

## Academic Titles / Tasks

Professor, Marmara University, Faculty of Technology, Mechatronic Engineering, 2022 - Continues  
Professor, Braunschweig TU, Institut für Mikrotechnik, Institut für Mikrotechnik, 2023 - 2024  
Associate Professor, Marmara University, Faculty of Technology, Mechatronic Engineering, 2016 - 2022  
Lecturer PhD, Marmara University, Faculty of Technology, Mechatronic Engineering, 2015 - 2016  
Lecturer PhD, Université de Bourgogne, The Institute Of Automotive And Transport Engineering, Département De Recherche En Ingénierie Des Véhicules Pour L'environnement, 2014 - 2015  
Lecturer PhD, Marmara University, Faculty of Technical Education, Mechatronic Education, 2012 - 2015  
Lecturer, Marmara University, Faculty of Technical Education, Mechatronic Education, 2004 - 2012

## Academic and Administrative Experience

Fakülte Kurulu Üyesi, Marmara University, Faculty of Technology, Mechatronic Engineering, 2023 - Continues  
Ethics Committee Member, Marmara University, Faculty of Technology, Mechatronic Engineering, 2023 - Continues  
Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Marmara University, Faculty of Technology, Mechatronic Engineering, 2016 - Continues  
Head of Department, Marmara University, Faculty Of Technology, Mechatronic Engineering, 2020 - 2023  
Erasmus Program Institutional Coordinator, Marmara University, Faculty of Technology, Mechatronic Engineering, 2020 - 2023  
Rektörlük Kalite Komisyonu Üyesi, Marmara University, Faculty of Technology, Mechatronic Engineering, 2018 - 2023  
Birim Kalite Komisyonu Üyesi, Marmara University, Faculty of Technology, Mechatronic Engineering, 2016 - 2021  
Deputy Head of Department, Marmara University, Faculty of Technical Education, Mechatronic Education, 2011 - 2015

## Courses

Malzeme Bilimi ve Muayenesi, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Savunma Araç Ve Sistemleri II, Postgraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020  
Taşıt Mekatroniği, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Bitirme Projesi, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Mekatronikte Malzeme Uygulamaları, Postgraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016  
Titreşim ve Akustik, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2016 - 2017  
Bilim Tarihi, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018  
İş Sağlığı ve Güvenliği, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018  
Biyomedikal Cihazlar, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Yeni Nesil Otomotiv Teknolojileri II , Doctorate, 2021 - 2022, 2020 - 2021, 2019 - 2020  
Nano Teknolojik Malzemeler, Doctorate, 2021 - 2022, 2020 - 2021, 2017 - 2018  
Kalite Yönetimi, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Otomotiv Sistemleri için Kalite Kontrol, Doctorate, 2020 - 2021, 2019 - 2020, 2016 - 2017  
Tıbbi Cihazlar ve Destek Sistemleri, Postgraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017  
Malzeme Bilimi ve Muayenesi, Undergraduate, 2019 - 2020  
Taşıtlarda Malzeme Teknolojisi, Postgraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016  
Mekatronik Mühendisliğine Giriş, Undergraduate, 2015 - 2016  
Davranış Bilimleri, Undergraduate, 2015 - 2016

## Advising Theses

Ersoy S., Mekatronik Yaklaşımı EEG Sinyalleri ile Ekstremiteler –Dış İskelet Sisteminin Geliştirilmesi , Doctorate, S.Nazmiye(Student), Continues  
Ersoy S., Atmosfer Hava Bağlantısı Olmayan Ürünler İçin Sızdırmazlık Kontrol Yöntemi Geliştirilmesi, Postgraduate, İ.Temiz(Student), 2023  
Ersoy S., Oksijen Miktarının Belirlenmesi Amacıyla Biyolüminesans Enziminin Biyosensör Olarak Tasarımı ve Dizaynı, Postgraduate, B.Nur(Student), 2023  
Ersoy S., Design, Analysis and Production of Temperature Sensor Using Microstereolithography Technique, Doctorate, T.Waqar(Student), 2022  
Ersoy S., 3D Datasının Sonlu elemanlar Metodu Uygulanarak Çarpma Testinin Gerçekleştirilmesi, İyileştirilmesi, Yapılması ve Farklılıkların Gözlemlenmesi, Postgraduate, F.Özcan(Student), 2021  
Ersoy S., DESIGN/PROTOTYPE OF LAUNCHABLE ROTARY WING UNMANNED AERIAL VEHICLE AND LAUNCHING MECHANISM DESIGN/ PROTOTYPE, Postgraduate, E.Gökbel(Student), 2021  
Ersoy S., Mikroakışkan Çip Tasarımı, Analizi ve Zamana Bağlı Basınç Kontrolü, Postgraduate, İ.Ünalı(Student), 2020  
Ersoy S., Gerçek Zamanlı Hava Kalitesi Ölçen İnsansız Hava Aracı Sistemi, Postgraduate, M.Erdem(Student), 2019  
ERSOY S., Elektrik makine bakımlarında oluşan iş kazalarına ilişkin sorunlar ve çözüm önerileri, Postgraduate, H.BALCI(Student), 2018  
ERSOY S., Bir servo motorun plc ile titreşim ve sıcaklık analizi, Postgraduate, M.SARI(Student), 2018  
ERSOY S., Sanayi üretimde elektrikle ilgili yaşanan iş kazalarının belirlenmesi ve çözüm önerileri, Postgraduate, C.KILIÇASLAN(Student), 2018

## Jury Memberships

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Sakarya Uygulamalı Bilimler Üniversitesi, June, 2024  
Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Trakya Üniversitesi, March, 2024  
Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, İstanbul Gedik Üniversitesi, February, 2024  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Sakarya Uygulamalı Bilimler Üniversitesi, November, 2022  
Post Graduate, Post Graduate, Trakya Üniversitesi, July, 2022



- IX. **DISCOVERY OF AGRICULTURAL DISEASES BY DEEP LEARNING AND OBJECT DETECTION**  
Karakaya M., Çelebi M. F., Gok A. E., Ersoy S.  
ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, vol.21, no.1, pp.163-173, 2022 (SCI-Expanded)
- X. **Manufacturing of Microfluidic Sensors Utilizing 3D Printing Technologies: A Production System**  
Khorsandi D., Nodehi M., Waqar T., Shabani M., Kamare B., Zare E. N., Ersoy S., Annabestani M., Çelebi M. F., Kafadenk A.  
JOURNAL OF NANOMATERIALS, vol.2021, 2021 (SCI-Expanded)
- XI. **Design and Analysis Comparison of Surface Acoustic Wave-Based Sensors for Fabrication Using Additive Manufacturing**  
Waqar T., Ersoy S.  
JOURNAL OF NANOMATERIALS, vol.2021, 2021 (SCI-Expanded)
- XII. **MODELLING AND THERMAL ANALYSIS OF MICRO BEAM USING COMSOL MULTIPHYSICS**  
Ulkir O., Ertugrul I., GİRİT O., ERSOY S.  
THERMAL SCIENCE, vol.25, 2021 (SCI-Expanded)
- XIII. **Data Analysis for Predictive Maintenance of Servo Motors**  
Girit O., Atakök G., Ersoy S.  
SHOCK AND VIBRATION, vol.2020, 2020 (SCI-Expanded)
- XIV. **STUDY ON VIBRATION PROPERTIES OF COMPOSITE MATERIALS**  
Ersoy S.  
DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES, vol.12, no.4, pp.1149-1155, 2017 (SCI-Expanded)
- XV. **FRICITION AND WEAR PERFORMANCE OF HIGH DENSITY POLYETHYLENE/STYRENE - BUTADIENE RUBBER POLYMER BLENDS**  
Ersoy S.  
REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS, vol.45, no.3, pp.267-271, 2015 (SCI-Expanded)
- XVI. **MECHANICAL, MORPHOLOGICAL AND THERMAL PROPERTIES OF HDPE POLYMER COMPOSITES FILLED WITH TALC, CALCIUM CARBONATE AND GLASS SPHERES**  
Taşdemir M., Ersoy S.  
REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS, vol.45, no.2, pp.147-154, 2015 (SCI-Expanded)
- XVII. **FRICITION AND WEAR PERFORMANCE OF HDPE/TALC- CALCIUM CARBONATE POLYMER COMPOSITES AGAINST SLIDING DISTANCE AND APPLIED LOAD**  
Taşdemir M., Ersoy S.  
REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS, vol.44, pp.257-264, 2014 (SCI-Expanded)
- XVIII. **Investigation on The High Density Polyetylen Synthetic Rubber Tyrene Butadiene Composites**  
Ersoy S.  
Metalurgia International, vol.18, no.9, pp.5-9, 2013 (SCI-Expanded)
- XIX. **Thermal and Mechanical Properties of Walnut Shell and Glass Fiber Reinforced Thermoset Polyester Composites**  
Onat A., Pazarlıoğlu S. S., Sancak E., Ersoy S., Beyit A., Erdem R.  
ASIAN JOURNAL OF CHEMISTRY, vol.25, pp.1947-1952, 2013 (SCI-Expanded)
- XX. **THE MECHANICAL AND MORPHOLOGICAL PROPERTIES OF HDPE COMPOSITES FILLED WITH SiO<sub>2</sub>, ZnO, Mg(OH)<sub>2</sub> and CaCO<sub>3</sub> NANO POWDER**  
Taşdemir M., Ersoy S.  
REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS, vol.43, no.4, pp.417-424, 2013 (SCI-Expanded)
- XXI. **Usage level of educational technologies of students at electronic computer department in technical high school**  
ERSOY S., KARATEPE MUMCU Y.  
ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART A-ENERGY SCIENCE AND RESEARCH, vol.30, no.1, pp.137-142, 2012 (SCI-Expanded)
- XXII. **Investigation of Sound Absorption and Impedance Ratio of SBR/HIPS Polymer Blends**  
Ulug E., Taşdemir M., Ersoy S.  
POLYMER-PLASTICS TECHNOLOGY AND ENGINEERING, vol.51, no.2, pp.170-174, 2012 (SCI-Expanded)
- XXIII. **Effects of HIPS on the Sound Absorption and Impedance Ratio of SEBS/HIPS/CaCO<sub>3</sub> Polymer Composites**  
Taşdemir M., Ersoy S., Ulug E.  
POLYMER-PLASTICS TECHNOLOGY AND ENGINEERING, vol.51, no.9, pp.952-956, 2012 (SCI-Expanded)
- XXIV. **Sound Adsorption and Morphological Properties of SIS/HIPS/CaCO<sub>3</sub> Polymer Composites**  
Ersoy S., Ulug E., Taşdemir M.  
JOURNAL OF POLYMER MATERIALS, vol.28, pp.551-560, 2011 (SCI-Expanded)
- XXV. **Measurements of noise at crossroads and on transportations its effects and possible measures to take**  
ERSOY S., KARATEPE MUMCU Y.  
Journal Of Vibroengineering, vol.13, pp.109-119, 2011 (SCI-Expanded)
- XXVI. **Measurements of noise at crossroads and on transportations, its effects and possible measures to take**  
ERSOY S., Karatepe Y.  
JOURNAL OF VIBROENGINEERING, vol.13, no.1, pp.109-119, 2011 (SCI-Expanded)
- XXVII. **The Active Learning Method of the Automotive Mechatronics Course Learning Impact on Stability**  
ERSOY S., TOPTAŞ E.  
TECHNICS TECHNOLOGIES EDUCATION MANAGEMENT-TTEM, vol.6, no.1, pp.203-210, 2011 (SCI-Expanded)
- XXVIII. **Determination of views about usage level of education technologies of teachers at electronic and computer department of technical high school**  
KARATEPE MUMCU Y., ERSOY S., VARBAK NEŞE S.  
Technics Technologies Education Management-Ttem, 2011 (SCI-Expanded)
- XXIX. **An Investigation of Mechanical and Acoustic Absorption Properties of Multi axial Glass Fiber And Hazelnut s Shell Reinforced Polyester Resin Composites**  
Ersoy S., Beyit A., Sancak E.  
Journal Of Vibroengineering, vol.11, pp.305-316, 2009 (SCI-Expanded)
- XXX. **An investigation of mechanical and acoustic absorption properties of multiaxial glass fiber and hazelnut's shell reinforced poliester resin composites**  
Ersoy S., Beyit A., Sancak E.  
Journal of Vibroengineering, vol.11, pp.305-315, 2009 (SCI-Expanded)
- XXXI. **Online modelling for sound absorption properties of composite material**  
Ersoy S., Kaplanoğlu E.  
JOURNAL OF VIBROENGINEERING, vol.11, pp.298-304, 2009 (SCI-Expanded)
- XXXII. **Investigation of industrial tea-leaf-fibre waste material for its sound absorption properties**  
Ersoy S., Küçük H.  
APPLIED ACOUSTICS, vol.70, pp.215-220, 2009 (SCI-Expanded)

#### Articles Published in Other Journals

- I. **Purification of olive mill waste: a circular economy model for the Mediterranean region**  
Feyzioğlu A., Ersoy S., Omoruyi T. U., Santoro D., Piccinetti L.  
Insights into Regional Development, vol.6, pp.92-106, 2024 (Scopus)
- II. **Reading Gokturkish text with the Yolo object detection algorithm**  
Karakaya M., Ersoy S., Feyzioğlu A., Ersoy S.

- vol.4, no.2, pp.9-16, 2024 (Peer-Reviewed Journal)
- III. **Material selection in sensor design for additive manufacturing**  
AKTAŞ B., ŞAHİN T., GÜLLÜ A., TOPTAŞ E., FEYZİOĞLU A., ERSOY S.  
JVE International Ltd., vol.4, 2023 (Peer-Reviewed Journal)
- IV. **Air leakage test system for product without atmosphere air connection**  
Temiz İ., Feyzioğlu A., Çelebi M. F., Ersoy S.  
Journal of Mechatronics and Artificial Intelligence in Engineering, vol.4, no.2, pp.40-46, 2023 (Peer-Reviewed Journal)
- V. **Bioluminescence sensor: enzymes, reaction and utilization as an energy source**  
Yağdıran B., Ersoy S., Gültekin B. N., Yağdıran M.  
Journal of Mechatronics and Artificial Intelligence in Engineering, vol.3, no.2, 2022 (Peer-Reviewed Journal)
- VI. **Productivity forecast with digital greenhouse automation system for sustainable agriculture**  
Gök A. E., Çelebi M. F., Koca A. S., Doğan M., Ersoy S.  
Journal of Mechatronics and Artificial Intelligence in Engineering, vol.3, no.1, pp.40-46, 2022 (Peer-Reviewed Journal)
- VII. **Analysis of the vehicle: applying finite element method of 3D data**  
ÖZCAN F., ERSOY S.  
Mathematical Models in Engineering, vol.7, no.4, pp.1-7, 2021 (Peer-Reviewed Journal)
- VIII. **Launchable rotary wing UAV designs and launch mechanism designs for rotary wing UAV**  
Gökbel E., ERSOY S.  
Journal of Mechatronics and Artificial Intelligence in Engineering, vol.2, no.2, pp.1-12, 2021 (Peer-Reviewed Journal)
- IX. **Manufacturing of complex geometric structure metal matrix structures used for special purposes**  
Kaba M., Ersoy S., Ekinli B.  
Journal of Mechatronics and Artificial Intelligence in Engineering, vol.2, no.2, pp.11-17, 2021 (Peer-Reviewed Journal)
- X. **Analysis of electroencephalography (EEG) signals and adapting to systems theory principles**  
Camgöz A. N., Ekşi Z., Çelebi M. F., Ersoy S.  
JOURNAL OF COMPLEXITY IN HEALTH SCIENCES, vol.4, no.2, pp.1-6, 2021 (Peer-Reviewed Journal)
- XI. **Measurement of temperature and displacement with NiTi actuators under certain electrical conditions**  
Toptaş E., Çelebi M. F., Ersoy S.  
JOURNAL OF MEASUREMENTS IN ENGINEERING, vol.9, no.2, pp.87-94, 2021 (ESCI)
- XII. **Automatic Decision Making System with Environmental and Traffic Data**  
Ersoy S., Waqar T., Toptaş E.  
Mathematical Models in Engineering, vol.7, no.2, 2021 (Peer-Reviewed Journal)
- XIII. **Microfluidics chip design analysis and control**  
ÜNALLI İ., ERSOY S., ERTUĞRUL İ.  
Journal of Mechatronics and Artificial Intelligence in Engineering, vol.1, no.1, pp.2-7, 2020 (Peer-Reviewed Journal)
- XIV. **Development of vehicle tracking system with low-cost wireless method**  
Ülkir O., Akın M., Ersoy S.  
Journal of Mechatronics and Artificial Intelligence in Engineering, vol.1, no.1, pp.8-13, 2020 (Peer-Reviewed Journal)
- XV. **Electronic and Mechanical Design of a Hexapod Land Searching Robot**  
Boz T., Aras İ., Kıkıcı S., Ersoy S.  
International Advanced Researches and Engineering Journal, vol.4, no.1, pp.34-40, 2020 (Peer-Reviewed Journal)
- XVI. **Starch Synthesis from Air Pollution Formation with a Converter System**  
Çalı S., Ersoy S.  
Ulusal Çevre Bilimleri Araştırma Dergisi, vol.3, no.1, pp.11-19, 2020 (Peer-Reviewed Journal)
- XVII. **Determining Unmanned Aerial Vehicle Design Parameters for Air Pollution Detection System**  
Ersoy S., Taş M. E.  
The Online Journal of Science and Technology, vol.10, no.1, pp.6-18, 2020 (Peer-Reviewed Journal)
- XVIII. **Product Development by Additive Manufacturing and 3D Printer Technology in Aerospace Industry**  
Kalender M., Bozkurt Y., Ersoy S., Salman S.  
Havacılık ve Uzay Teknolojileri Dergisi, vol.13, no.1, pp.129-138, 2020 (Peer-Reviewed Journal)
- XIX. **DETERMINING UNMANNED AERIAL VEHICLE DESIGNPARAMETERS FOR AIR POLLUTION DETECTION SYSTEM**  
Taş M. E., Ersoy S.  
The Online Journal of Science and Technology, vol.10, no.1, pp.6-18, 2020 (Peer-Reviewed Journal)
- XX. **Product Development with Additive Manufacturing and 3D Printer Technology in Aerospace Industry**  
Kalender M., Bozkurt Y., Ersoy S., Salman S.  
Journal of Aeronautics and Space Technologies, vol.13, no.1, pp.129-138, 2020 (Peer-Reviewed Journal)
- XXI. **THE DESIGN AND IMPLEMENTATION OF A MEDICAL INJECTIONS SYSTEM PROVIDING SENSITIVE FLUID FLOW CONTROL USING MECHATRONICS DESIGN METHOD**  
Ersoy S., Yılmaz Ö.  
ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING, vol.64, no.4, pp.551-556, 2019 (ESCI)
- XXII. **Osmaniye Korkut Ata Üniversitesi Fen Bilimleri Enstitüsü Dergisi**  
Ülkir O., Ertuğrul İ., Ersoy S., Girgin B. C.  
Osmaniye Korkut Ata Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.2, no.1, pp.74-78, 2019 (Peer-Reviewed Journal)
- XXIII. **Sanayi Üretimde Elektrik İlgili Yaşanan İş Kazalarının Belirlenmesi ve Çözüm Önerileri**  
Kılıçaslan C., Ersoy S.  
AKU J.Eng.App.Sci., vol.2, pp.85-101, 2019 (Peer-Reviewed Journal)
- XXIV. **INVESTIGATION ON VIBRATION ANALYSIS OF THE EFFECT OFFIBER BREAKS IN UNIDIRECTIONAL COMPOSITES**  
Toptaş E., Ersoy S., Bozkurt Y.  
The Online Journal of Science and Technology, vol.8, pp.74-79, 2018 (Peer-Reviewed Journal)
- XXV. **COMPARISON OF THE VIBRATION PROPERTIES OF MATERIALS AA2124/SiC/25p and ALUMINUM 6061-T6**  
Bozkurt Y., Toptaş E., Ersoy S.  
The Online Journal of Science and Technology, vol.8, pp.44-47, 2018 (Peer-Reviewed Journal)
- XXVI. **MATERIAL SELECTION IN DETERMINATION OF POSITION AND SIZE FOR ARTIFICIAL ORGANS**  
ERSOY S., ERTUĞRUL İ., ÜLKİR O., TEMİZ İ.  
Journal of the Technical University of Gabrovo, vol.56, pp.53-56, 2018 (Peer-Reviewed Journal)
- XXVII. **The Methods Used in the Automotive Production: Hemming Operations Planning**  
ERSOY S., ERTUĞRUL İ., AYĞUL E.  
Engineering and Applied Science, vol.1, no.1, pp.103-106, 2018 (Peer-Reviewed Journal)
- XXVIII. **DESIGN AND CONTROL OF PLASTIC BOTTLE BREAKING AND STORAGE MACHINE**  
ERSOY S., AYĞUL E., TOPTAŞ E.  
Journal of the Technical University of Gabrovo, vol.56, pp.30-32, 2018 (Peer-Reviewed Journal)
- XXIX. **Measurement of Noise Level: Applied Fair Area**  
ERSOY S., AYĞUL E., ERTUĞRUL İ.

- Applied Technologies and Innovations, vol.13, no.2, pp.15-18, 2017 (Peer-Reviewed Journal)
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- VIII. **Game Theory Based - Autonomous Vehicle Control Via Image Processings**  
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- XLI. **Quality Management for Science Education**  
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- XLII. **Learning Methods For Mechatronics Education**  
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1. International Vocational and Technical Education Technologies Congress, İstanbul, Turkey, 5 - 07 September 2005, pp.713-718
- LII. **Design And Implementation of a MPS Unit Conducting Part Transfer Via Two Axes Pneumatic Arm**  
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1. International Vocational and Technical Education Technologies Congress, İstanbul, Turkey, 5 - 07 September 2005, pp.503-505
- LIII. **MEKATRONİK EĞİTİMİ BÖLÜMÜ ÖĞRENCİLERİNİN UYUM SORUNLARI**  
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## Supported Projects

- Ersoy S., Federıcı S., TÜBİTAK - AB COST Project, COST Action CA20101 - Plastics monitoring detection Remediation recovery (PRIORITY), 2021 - 2025
- Ersoy S., Gültekin B. N., Project Supported by Higher Education Institutions, Oksijen Miktarının Belirlenmesi Amacıyla Biyoluminesans Enziminin Biyosensör Olarak Tasarımı ve Dizaynı, 2022 - 2023
- Ersoy S., Ekinli B., Company, Katmanlı Üretimde Kullanılacak Yeni Nesil Üretim Teknolojisi İçin Vidalı Ekstruder Tasarımı ve Üretilmesi, 2021 - 2021
- Ersoy S., Project Supported by Higher Education Institutions, GERÇEK ZAMANLI HAVA KALİTESİ ÖLÇEN İNSANSIZ HAVA ARACI SİSTEMİ, 2018 - 2019
- Ersoy S., Project Supported by Higher Education Institutions, Yapay Organlar için Pozisyon ve Boyut Belirlenmesi, 2017 - 2018
- Ersoy S., Project Supported by Higher Education Institutions, Bir Servo Motorun PLC ile Titreşim ve Sıcaklık Analizi, 2017 - 2018
- Kaplanoğlu E., Toptaş E., Ersoy S., Erasmus Project, 3D MODELLING AND APPLICATIONS FOR 3D PRINTERS AND TABS FOR VET SCHOOLS, 2016 - 2018



Genç G., Akkuş N., Toptaş E., Ersoy S., Project Supported by Higher Education Institutions, Kabak Lifi Takviyeli Bio Kompozit Malzemelerin Dinamik ve Mekanik Özelliklerinin Belirlenmesi, 2013 - 2016

Ersoy S., TÜBİTAK Project, Nano Polimer Kompozitlerin Ses ve Titreşim Özelliklerinin İncelenmesi, 2014 - 2015

Ersoy S., El-Hafidi A., TÜBİTAK Project, The Study of Acoustic and Vibration Properties of Nano-Polymer Materials and Finite Element Modelling, 2014 - 2015

Ersoy S., EU Supported Other Project, Implementing Quality Management For Better Education, 2009 - 2009

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## Patent

Ersoy S., Sağlık sektörü için hassas sıvı akış kontrolü otomasyon sistemi, Utility Model, CHAPTER A Human Needs, The Invention Recourse Number: 2010/01225 , Standard Registration, 2010

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## Activities in Scientific Journals

npj Advanced Manufacturing, Committee Member, 2024 - Continues

International Journal of Product Sound Quality, Committee Member, 2022 - Continues

Advances in Materials Science and Engineering, Special Issue Editor, 2021 - Continues

Journal of Mechatronics and Artificial Intelligence in Engineering, Editor, 2020 - Continues

Latest Trends in Textile and Fashion Designing, Publication Committee Member, 2018 - Continues

Journal of Energy and Power Engineering, Committee Member, 2016 - Continues

Vibroengineering PROCEDIA, Committee Member, 2014 - Continues

Mathematical Models in Engineering, Committee Member, 2014 - Continues

Journal of Measurements in Engineering, Committee Member, 2014 - Continues

Journal of Vibroengineering, Committee Member, 2014 - Continues

Journal Of Nanomaterials, Special Issue Editor, 2020 - 2021

## Memberships / Tasks in Scientific Organizations

JVE International, Member of Science Committee, 2019 - Continues

## Scientific Refereeing

R&D Project of Group B, Marmara University, Turkey, August 2024

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Academic Studies in Engineering Sciences, Scientific / Professional Book Published by Renowned Publishing Houses, November 2020

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Her Yönüyle İpsala, Scientific / Professional Book Published by Renowned Publishing Houses, March 2020  
TUBİTAK Project, 1512 - Progressive Support Program for Entrepreneurship, Marmara University, Turkey, March 2020  
Avrupa Bilim ve Teknoloji Dergisi, Other Indexed Journal, January 2020  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, SCI Journal, January 2020  
International Journal of 3D Printing Technologies and Digital Industry, Other Indexed Journal, January 2020  
JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, June 2019  
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JOURNAL OF NANOPARTICLE RESEARCH, SCI Journal, March 2019  
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TUBİTAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Marmara University, Turkey, July 2018  
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JOURNAL OF INDUSTRIAL TEXTILES, SCI Journal, February 2017

## Scientific Consultations

AR-TT LTD STI, Project Consultancy, Marmara University, Faculty of Technology, Mechatronic Engineering, Turkey, 2022 - 2023  
Enformak Tasarım Merkezi, Project Consultancy, Marmara University, Faculty of Technology, Mechatronic Engineering, Turkey, 2021 - 2021

## Tasks In Event Organizations

Ersoy S., Noise and vibrations in mechatronic with industrial application, Scientific Congress, İstanbul, Turkey, Haziran 2022  
Ersoy S., 57th International JVE Conference, Scientific Congress, İstanbul, Turkey, Haziran 2022  
Ersoy S., 1st International Symposium on Innovative Approaches in Scientific Studies, Scientific Congress, Antalya, Turkey, Nisan 2018  
Ersoy S., 2016 International Conference on Innovative Engineering and Technology Application, Scientific Congress, Shenzhen, China, Aralık 2016  
Ersoy S., Vibroengineering on Modeling, Identification and Fault Detection in Oil and Gas Equipment and Infrastructures, Scientific Congress, İstanbul, Turkey, Eylül 2016  
Ersoy S., The 3rd International Conference on Applied Mechanics, Mechatronics and Intelligent System (AMMIS2015), Scientific Congress, Nanjing, China, Temmuz 2015

## Mobility Activity

Post Doc, Post Doc, Technische Universitaet Braunschweig, Germany, 2023 - Continues  
Post Doc, Post Doc, Universite de Bourgogne, France, 2014 - 2015

## Metrics

Publication: 135  
Citation (WoS): 263  
Citation (Scopus): 569  
H-Index (WoS): 6  
H-Index (Scopus): 8

## Awards

Ersoy S., Baş Değerlendirici, Sanayi Bakanlığı Stratejik Araştırmalar Ve Verimlilik Genel Müdürlüğü, December 2021  
Ersoy S., Akademik Çalışma, Marmara Üniversitesi Teknoloji Fakültesi, March 2016  
Ersoy S., Akademik Başarı Teşvik, Marmara Üniversitesi Teknoloji Fakültesi, March 2016  
Ersoy S., Taşdemir M., Yayın Teşvik Ödülü, Tübitak Ulakbim, November 2015  
Ersoy S., Taşdemir M., Yayın Teşvik Ödülü, Tübitak Ulakbim, August 2015  
Ersoy S., Taşdemir M., Yayın Teşvik Ödülü, Tübitak Ulakbim, December 2014  
Ersoy S., Taşdemir M., Yayın Teşvik Ödülü, Tübitak Ulakbim, March 2014  
Ersoy S., Karatepe Mumcu Y., Yayın Teşvik Ödülü, Tübitak Ulakbim, December 2012  
Ersoy S., Mansiyon Ödülü, Pagev, December 2012  
Ersoy S., 129. Yıl Başarı Ödülleri Mesleki ve Teknik Eğitim Patent Ödülü, Marmara Üniversitesi, January 2012  
Ersoy S., Küçük H., Yayın Teşvik Ödülü, Tübitak Ulakbim, February 2009

## Visual Activities

Ersoy S., Journal of Mechatronics and Artificial Intelligence in Engineering, Journal Publishing, 2020 - Continues

## Non Academic Experience

AR-TT  
Enformak Tasarım Merkezi