

ZAFER GEMİCİ

ASSOC. PROF.

Email : zgemic@yildiz.edu.tr

Office Phone : [+90 212 383 2818](tel:+902123832818)

Fax Phone : [+90 212 383 3024](tel:+902123833024)

Address : Yıldız Teknik Üniversitesi, Makina Fakültesi - Makina
Müh. Bölümü, Termodinamik ve Isı Tekniği Anabilim Dalı,
Barbaros Bulvarı / Yıldız / Beşiktaş - 34349 / İSTANBUL

International Researcher IDs

ScholarID: j5M_rJ0AAAAJ

ORCID: 0000-0002-0716-9234

Publons / Web Of Science ResearcherID: F-3135-2016

ScopusID: 21933594900

Yoksis Researcher ID: 234712



Biography

Dr. Zafer GEMİCİ was born in 1974 in Rize. After graduating with honors from Istanbul Technical University, Mechanical Engineering, Energy Department in 1997, he received his master's degree in 1999 and his Ph.D. in 2007 from the same department. During his undergraduate education, he started his internship at Arçelik Research and Development Department and professionalized his R&D engineering experience. He worked in Arçelik R&D Department for 5 years as R&D professional and project manager in the fields of heat and fluid systems, cooling techniques, dynamic system modeling. After leaving Arçelik due to his military service, he joined Dizayn Group R&D Department in 2001 as an R&D specialist in the fields of heat transfer, fluid mechanics, thermodynamics, energy systems, IP management and project management. He was promoted to R&D Manager within 1 year and performed these duties for 4 years. In 2007, he led the transformation of the R&D department of Dizayn Group into Mir Research and Development Inc. and became the R&D Coordinator of this company. Until the end of 2018, he worked in different positions such as General Manager, Assistant General Manager and R&D Coordinator in this company operating in YTU Technopark. Dr. GEMİCİ, who was a member of the Technology Board of Directors of Mir Holding, had also led the company's traditional "We encourage brain power against brain drain" campaign.

After 22 years of experience in the private sector, he decided to become an academic. In September 2018, Dr. GEMİCİ became a faculty member at the Faculty of Mechanical Engineering, Department of Thermodynamics and Heat Engineering, Yıldız Technical University. In the same period, he was the deputy dean of the Faculty of Mechanical Engineering, responsible for the administration.

In 2013, Dr. Gemici completed the International Innovation, Technology and R&D Management postgraduate program at the University of Warwick.

He was a founding member and vice president of the International Technology Union (UTB) and a board member of Istanbul University Technopark A.Ş. He was also a founding board member and country director of ACQUEAU, a sub-cluster of EUREKA, headquartered in Brussels, working in the field of "Water and Water Management" between 2010-2016. He also taught at Istanbul University between 2004 and 2015.

In addition to his expertise in mechanical engineering, he also specializes in business management, technology management, project management, intellectual property management, innovation management, venture capital and product development. He also has consulting responsibilities in various large companies.

Dr. GEMİCİ is married and has one daughter.

Learning Knowledge

Doctorate 1999 - 2008	Istanbul Technical University, Fen Bilimleri Enstitüsü, Makine Mühendisliği/Enerji, Turkey
Postgraduate 1997 - 1999	Istanbul Technical University, Fen Bilimleri Enstitüsü, Makine Mühendisliği/Enerji, Turkey
Undergraduate 1992 - 1997	Istanbul Technical University, Makine Mühendisliği, Turkey

Certificates, Courses and Trainings

Education Management and Planning, AMOS ile Yapısal Eşitlik Modelleme, Başkent Üniversitesi Eğitim ve Danışmanlık Hizmetleri Merkezi (BEDAM), 2018

Education Management and Planning, Industrial RD and Technology Management Postgraduate Certificate Program (1 Year), Warwick University, 2012

Education Management and Planning, The Project Circle, Technical, Financial and Legal Aspects of FP7 Project Preparation and Completion, AB 7th Program Edu. by Dr. Stephan Pascall, 2006

Education Management and Planning, Çalışanlar İçin Grid, İdea, 2003

Education Management and Planning, ISO 9001:2000 Quality Management System Update Training, Bureau Veritas, 2003

Education Management and Planning, Proje Yönetimi, Makro Danışmanlık, 2000

Education Management and Planning, SDRC Education Training Program, SDRC, 1999

Education Management and Planning, İngilizce Destekli Lisans Öğretim Programı, İTÜ, 1992

Dissertations

Doctorate, Termal enerji depolama sistemlerinde kullanılan ve faz değişimi yapan kapsüllerde ısı transferinin incelenmesi, İstanbul Teknik Üniversitesi, Fenbilimleri Enstitüsü, Makine Mühendisliği/Enerji, 2008

Postgraduate, İklimlendirme cihazı ısı değiştiricilerinin teorik ve deneysel olarak incelenmesi, İstanbul Teknik Üniversitesi, Fenbilimleri Enstitüsü, Makine Mühendisliği/Enerji, 1999

Academic Titles / Tasks

Associate Professor 2019 - Continues	Yıldız Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering
Assistant Professor 2018 - 2019	Yıldız Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering

Supported Projects

1. ATAYILMAZ Ş. Ö., DEMİR H., KARADAĞ A., ARPACI E., GEMİCİ Z., SEVİNDİR M. K., SAROĞLU Ö., METİN YILDIRIM R., Project Supported by Higher Education Institutions, Isı Pompalı Mikrodalga Destekli Gıda Kurutma Sisteminin

DeneySEL ve Sayısal İncelenmesi, 2022 - Continues

2. Sevindir M. K., Atayılmaz Ş. Ö., Demir H., Ağra Ö., Gemici Z., Yıldırım A., Project Supported by Higher Education Institutions, POLİMER KOMPOZİT ISI DEĞİŞTİRİCİSİ GELİŞTİRİLMESİ, 2022 - 2024
3. GEMİCİ Z., Topçu D., Project Supported by Higher Education Institutions, İnsansız Hava Araçları için Eklemeli İmalat Yöntemiyle Yakıt Eşanjörü Geliştirilmesi, 2022 - 2023
4. GEMİCİ Z., Ürkmez Ş., Project Supported by Higher Education Institutions, Pil Termal Yönetim Sistemleri İçin Tek Fazlı Isı Transferinin Minyatür Pin Kanatlı Yüzeyler ile Arttırılmasına Yönelik Araştırılması, 2022 - 2023
5. Doğan A., Gemici Z., Demir H., Kayacı N., Atayılmaz Ş. Ö., Project Supported by Higher Education Institutions, Yapı temeline yerleştirilen ısı pompası ile entegre yerden ısıtma sistemi ve farklı sistemlerin birlikte çalıştırılması ve sistem optimizasyonu, 2020 - 2022
6. Gemici Z., Çakır E., TUBİTAK Project, Büyük ve Kesintili Enerji Kullanan Mahallerde Toprak Kaynaklı Isı Pompasıyla Radyant Isıtma-Soğutma Sistemlerinin Isıl Konfor Analizinin ve Uygulanabilirliğinin İncelenmesi, 2021 - 2021
7. Gemici Z., Doğu M., Project Supported by Defense Industry, Havacılıkta Kullanılan Karbon Elyaf Takviyeli Termoplastik Reçineli Prepreg Geliştirilmesi (KOZA) Projesi, 2014 - 2020
8. Gemici Z., TÜBİTAK International Bilateral Joint Cooperation Program Project, COMFOSTAT: Öğrenen Algoritma İle Desteklenecek Operatif Sıcaklık Esasına Dayanan Akıllı Termostat Geliştirilmesi, 2017 - 2019
9. Gemici Z., TÜBİTAK International Bilateral Joint Cooperation Program Project, Yüksek Mekanik Performanslı İleri Melez İpliklerin Kullanıldığı Termoplastik Kompozit Üretim Yönteminin Geliştirilmesi (AB-EUREKA / TEYDEB-1509-9150197), 2016 - 2019
10. Gemici Z., TÜBİTAK International Bilateral Joint Cooperation Program Project, MeVe: Akıllı Veri Analiz Araçları ile Etkin Enerji Verimliliği Ölçümü ve Doğrulaması Yapan Yazılım Aracı Geliştirilmesi, 2017 - 2018
11. Gemici Z., TTGV, Tarımsal ve Çevresel Analizlerin Yerinde ve Hızlı Yapılmasına Yönelik Mobil Analiz Laboratuvar Platformunun Geliştirilmesi, 2015 - 2018
12. Gemici Z., FP7 Project, RepliCable and InnovaTive Future Efficient Districts and cities - CITYFiED, 2014 - 2018
13. Gemici Z., FP7 Project, Renovation of Residential urban spaces: Towards nearly zero energy CITIES - R2Cities (314473), 2013 - 2018
14. Zorer Gedik G., Atayılmaz Ş. Ö., Gemici Z., Industrial Thesis Project, Yüzeyden ısıtma soğutma sistemli modüler hibrit duvar yapısının geliştirilmesi, 2014 - 2016
15. Gemici Z., Şahin Y., Çetinkaya E., TUBİTAK Project, Toprakta Voltametrik Mikro Element Tayini İle Gübreleme Tavsiye Sistemi Geliştirilmesi, 2013 - 2016
16. Gemici Z., Karadağ S., TUBİTAK Project, PIPEX - BORU ÜRETİMİNE UYGUN ÇAPRAZ BAĞLANABİLİR POLİETİLEN ÜRETİMİ VE PROSES TASARIMI, 2013 - 2016
17. Gemici Z., Saygılı A., TUBİTAK Project, ENJEKSİYON KALIPLARINDA KARMAŞIK GEOMETRİLERİN OLUŞTURULMASI İÇİN HAVALI MAÇA GELİŞTİRİLMESİ, 2012 - 2016
18. Gemici Z., Koca A. İ., TUBİTAK Project, Radyant Soğutma Sistemlerinde Nemin Pasif ve Ekonomik Bir Şekilde Kontrol Edilmesi ev Pencerenin Termal Konfor Üzerindeki Olumsuz Etkisini Ortadan Kaldıracak Yenilikçi Çözümün Sayısal ve Deneysel Olarak İncelenmesi, 2014 - 2015
19. Gemici Z., TUBİTAK Project, Termoplastik Kompozit Borularda Eş Zamanlı, Zıt Yönlü, Kesintisiz, Çiftli Sarım Teknolojilerinin Geliştirilmesi, 2013 - 2015
20. Gemici Z., Technopark, Hobi ve enerji tasarrufu amaçlı topraksız bitki yetiştirme teknolojisinin geliştirilmesi, 2014 - 2014
21. Gemici Z., Industrial Thesis Project, Termoplastik esaslı polimer köpük boru geliştirilmesi, 2013 - 2014
22. Gemici Z., Technopark, BİNA HASTANESİ, 2013 - 2014
23. Gemici Z., Ünal A., Gökgöz İ., TUBİTAK Project, MİKROLİF TAKVİYELİ POLİMER KOMPOZİTLERİNİN ENDÜSİYEL ÖLÇEKTE GELİŞTİRİLMESİ, 2011 - 2014
24. Gemici Z., Technopark, Su altında yüzen boru sistemi, 2011 - 2014
25. Gemici Z., TUBİTAK Project, Çevre altyapı tesislerinde kullanılan boruların içmesuyu kanalizasyon ve üretim tekniklerinin araştırılması iyileştirilmesi ve geliştirilmesi, 2010 - 2014
26. Gemici Z., Atayılmaz Ş. Ö., Koca A. İ., TUBİTAK Project, DUVARDAN YERDEN TAVANDAN ISITMA SOĞUTMA UYGULAMALARINDA KULLANILABİLECEK RADYANT KLİMA PANELLERİNİN GELİŞTİRİLMESİ, 2011 - 2013
27. Gemici Z., Işıldak İ., Eren E., TUBİTAK Project, SAHADA HIZLI TOPRAK ANALİZİ VE GÜBRELEME SULAMA

TAVSİYESİ SİSTEMİ, 2010 - 2012

28. GEMİCİ Z., YILMAZ O., Industrial Thesis Project, Katkılı Polimer Malzemelerin Reolojik Özelliklerinin Modellenmesi ve Ekstrüzyonda Kullanılmak Üzere Üç Katmanlı Spiral Kafa Tasarımı, 2009 - 2012
29. Gemici Z., Bekem A., Doğu M., TUBITAK Project, Sürekli elyaf takviyeli termoplastik kompozit boru üretimi, 2008 - 2012
30. Gemici Z., Deveci S., TUBITAK Project, METAL PLASTİK ARA YÜZEYLERİNİN YAPIŞMA ÖZELLİKLERİNİN GELİŞTİRİLMESİ, 2008 - 2010
31. Gemici Z., Doğu M., TUBITAK Project, GAZ FAZINDA HİDROJEN TAŞIMA AMAÇLI PLASTİK BORU SİSTEMİ GELİŞTİRİLMESİ, 2007 - 2010
32. Gemici Z., TUBITAK Project, ÜRE SAATİ IONTOFOREZ YÖNTEMİ İLE VÜCUTTAKİ ÜRE DÜZEYİNİ ÖLÇEN CİHAZ, 2006 - 2008
33. Gemici Z., TUBITAK Project, PLASTİK BORU EKSTRUDER KALİBRELERİNİN İYİLEŞTİRİLMESİ, 2002 - 2004

Jury Memberships

Doctorate, Doctorate, İstanbul Teknik Üniversitesi, January, 2024

Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, December, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Yıldız Teknik Üniversitesi, December, 2023

Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, December, 2023

Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, December, 2023

Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, December, 2023

Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, December, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Yıldız Teknik Üniversitesi, December, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Yıldız Teknik Üniversitesi, December, 2023

Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, November, 2023

Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, September, 2023

Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, September, 2023

Post Graduate, Post Graduate, Marmara Üniversitesi, January, 2023

Doctorate, Doctorate, Yıldız Teknik Üniversitesi, January, 2023

Doctorate, Doctorate, Yıldız Teknik Üniversitesi, January, 2023

Doctorate, Doctorate, Yıldız Teknik Üniversitesi, July, 2022

Doctorate, Doctorate, Ankara Yıldırım Beyazıt Üniversitesi, July, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Yıldız Teknik Üniversitesi, December, 2019

Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, November, 2019

Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, November, 2019

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Yıldız Technical University, November, 2019

Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, November, 2019

Post Graduate, Sami Shams Aldin Yüksek Lisans Tez Savunma Jürisi, İstanbul Teknik Üniversitesi / Enerji Enstitüsü, June, 2019

Post Graduate, Duygu Utkucu Yüksek Lisans Tez Savunma Jürisi, İstanbul Teknik Üniversitesi / Enerji Enstitüsü, June, 2019

Competition, TEKNOFEST 2019, Türkiye Teknoloji Takımı, June, 2019

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Yıldız Teknik Üniversitesi, December, 2018

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Yıldız Teknik Üniversitesi,

December, 2018

Doctorate, Doctorate, Özyeğin Üniversitesi, December, 2018

Doctoral Examination, Doktora yeterlilik sınavı, YILDIZ TEKNİK ÜNİVERSİTESİ MAKİNE FAKÜLTESİ MAKİNE MÜHENDİSLİĞİ BÖLÜMÜ, November, 2018

Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, November, 2018

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Ankara Yıldırım Beyazıt Üniversitesi, September, 2018

Designed Lessons

Gemici Z., Thermal Radiation, Doctorate, 2019 - 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- 1. Adaptive strategies and thermal perceptions in intermittently used congregational Spaces: A case study**
GEMİCİ Z., DOĞAN A.
Engineering Science and Technology, an International Journal, vol.58, 2024 (SCI-Expanded)
- 2. Exploring Mathematical Modeling and CFD in Convective Drying of Fruits and Vegetables: A Review**
Arpaci E., Atayılmaz Ş. Ö., Gemici Z.
FOOD AND BIOPROCESS TECHNOLOGY, no.-, pp.1-28, 2024 (SCI-Expanded)
- 3. Numerical modeling and experimental validation of air-side forced convection on a Wire-on-tube condenser for a domestic refrigerator**
Erdem Şahnalı F., Atayılmaz Ş. Ö., Gemici Z.
NUMERICAL HEAT TRANSFER; PART A: APPLICATIONS, vol.5, no.1, pp.1-23, 2024 (SCI-Expanded)
- 4. Numerical study of the intensification of single-phase heat transfer in a sandwich-like channel using staggered miniature-pin fins**
Gemici Z., Budaklı M.
NUMERICAL HEAT TRANSFER; PART A: APPLICATIONS, vol.85, no.9, pp.1399-1432, 2024 (SCI-Expanded)
- 5. Numerical analysis of the heat transfer and pressure drop of a wavy fin and Kammtail tube condenser: An investigative study**
Erdem Şahnalı F., Atayılmaz Ş. Ö., Gemici Z.
CASE STUDIES IN THERMAL ENGINEERING, vol.55, pp.1-21, 2024 (SCI-Expanded)
- 6. Forecasting natural gas demand in Istanbul by artificial neural networks method and planning of city gate stations**
Balıkçı V., Gemici Z., Taner T., Dalkılıç A. S.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.39, no.2, pp.1017-1028, 2023 (SCI-Expanded)
- 7. Experimental and numerical investigation of ground heat exchangers in the building foundation**
Kayacı N., Demir H., Kanbur B. B., Atayılmaz Ş. Ö., Ağra Ö., Acet R. C., Gemici Z.
ENERGY CONVERSION AND MANAGEMENT, vol.188, pp.162-176, 2019 (SCI-Expanded)
- 8. Deformations of Cylindrical Corrugated Pipes**
Abdulaliyev Z., Ataoğlu Ş., Gemici Z.
JOURNAL OF TESTING AND EVALUATION, vol.45, no.6, pp.2121-2127, 2017 (SCI-Expanded)
- 9. Predicting the Numerical and Experimental Open-Channel Flow Resistance of Corrugated Steep Circular Drainage Pipes**
Gemici Z., KOCA A., Kaya K.
JOURNAL OF PIPELINE SYSTEMS ENGINEERING AND PRACTICE, vol.8, no.3, 2017 (SCI-Expanded)
- 10. A novel ANN-based approach to estimate heat transfer coefficients in radiant wall heating systems**

- Açıkğöz Ö., Cebi A., Dalkılıç A. S., Koca A., Cetin G., Gemici Z., Wongwises S.
ENERGY AND BUILDINGS, vol.144, pp.401-415, 2017 (SCI-Expanded)
11. **EXPERIMENTAL EXAMINATION OF THERMAL COMFORT PERFORMANCE OF A RADIANT WALL PANEL SYSTEM: COMPARISON BETWEEN DIFFERENT HEATING WALL CONFIGURATIONS**
GEMİCİ Z.
ISI BİLİMİ VE TEKNİĞİ DERGİSİ-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.37, no.1, pp.69-78, 2017 (SCI-Expanded)
 12. **Experimental investigation of heat transfer coefficients between hydronic radiant heated wall and room**
KOCA A., Gemici Z., TOPACOĞLU Y., CETİN G., ACET R. C., Kanbur B. B.
ENERGY AND BUILDINGS, vol.82, pp.211-221, 2014 (SCI-Expanded)
 13. **Aramid-HDPE Composites: Influence of Interface Adhesion Measured by T-peel Test on Tensile Properties**
BEKEM A., DOĞU M., Gemici Z., ÜNAL A., GÜLER M. H.
MATERIALS TESTING, vol.56, no.5, pp.369-374, 2014 (SCI-Expanded)
 14. **Theoretical and experimental examination of air conditioner heat exchangers**
Gemici Z., EĞRİCAN N., KOCA A.
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.37, no.6, pp.681-686, 2010 (SCI-Expanded)
 15. **Currency of district cooling systems and alternative energy sources**
Ulusarslan D., Gemici Z., Teke İ.
ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART A-ENERGY SCIENCE AND RESEARCH, vol.23, pp.31-53, 2009 (SCI-Expanded)

Articles Published in Other Journals

1. **A Comparative Study on Turkey's Science and Technology (S&T) Indicators**
Çark Gemici E., Gemici Z.
Economics and Business Quarterly Reviews, vol.4, no.3, pp.126-143, 2021 (Peer-Reviewed Journal)
2. **Investigation of Press Forming Process for CF/PEEK and GF/PP Thermoplastic Composite Materials**
Duran E. N., Yıldırımoglu Y. S., Ersöz S., Öztürk F., Gemici Z.
International Journal on Engineering Technologies and Informatics, vol.2, pp.53-60, 2021 (Peer-Reviewed Journal)
3. **TRUE INTERPRETATION OF R&D: HOLISTIC R&D, INNOVATION AND TECHNOLOGY MANAGEMENT**
Gemici Z., Öztürk F.
Makina Tasarım ve İmalat Dergisi, vol.18, no.2, pp.82-91, 2020 (Peer-Reviewed Journal)
4. **Development of a Cooling Die Used in Plastic Pipe Processing: Numerical and Experimental Analysis**
GEMİCİ Z.
JOURNAL OF THERMAL ENGINEERING, vol.4, pp.2096-2116, 2018 (Scopus)
5. **The performance evaluation of the modular design of hybrid wall with surface heating and cooling system**
Erikci Çelik S. N., Zorer Gedik G., Parlakyıldız B., Koca A., Çetin M. G., Gemici Z.
A/Z ITU Journal of the Faculty of Architecture, vol.13, pp.31-37, 2016 (Scopus)
6. **Investigation of a novel soil analysis method in agricultural areas of Çarşamba plain for fertilizer recommendation**
EREN E., ÖKSÜZ Y., KARADAĞ S., ÖZEN S., GEMİCİ Z., KIZILKAYA R.
EURASIAN JOURNAL OF SOIL SCIENCE (EJSS), vol.3, pp.123-130, 2014 (Peer-Reviewed Journal)
7. **EVAPORATIVE HEAT TRANSFER AND PRESSURE DROP OF R410A AND R32 IN SMOOTH HORIZONTAL TUBE**
KOCA A., GEMİCİ Z.
Sigma: Journal of Engineering Natural Sciences / Mühendislik ve Fen Bilimleri Dergisi, vol.32, pp.32-50, 2014

(Peer-Reviewed Journal)

8. **İZOFTALİK POLYESTER MATRİSLİ SÜREKLİ E-CAMI VE BAZALT FİBER TAKVİYELİ KOMPOZİTLERİN MEKANİK ÖZELLİKLERİ ÜZERİNE DENEYSEL BİR ÇALIŞMA**
GÜMÜLCİNE T., BEKEM A., DOĞU M., GEMİCİ Z., ÜNAL A.
Sigma: Journal of Engineering Natural Sciences / Mühendislik ve Fen Bilimleri Dergisi, vol.5, pp.104-115, 2013
(Peer-Reviewed Journal)
9. **SÜREKLİ E-CAM FİBER TAKVİYELİ POLİPROPİLEN KOMPOZİTLERİN ÜRETİMİ VE KARAKTERİZASYONU**
BAYDAR D. G., BEKEM A., DOĞU M., GEMİCİ Z., ÜNAL A.
Sigma: Journal of Engineering Natural Sciences / Mühendislik ve Fen Bilimleri Dergisi, vol.30, pp.120-132, 2012
(Peer-Reviewed Journal)
10. **Bünyesinde su bulunan sıkıştırılmış kar kürelerde ısı transferinin incelenmesi**
GEMİCİ Z., EĞRİCAN N.
ITU Journal Series D:Engineering (İTÜDERGİSİ/d - Mühendislik), vol.9, pp.71-82, 2010 (Peer-Reviewed Journal)

Books & Book Chapters

1. **Fuzzy Logic Based Heating and Cooling Control in Buildings Using Intermittent Energy**
EZBER S., AKDOĞAN E., GEMİCİ Z.
in: Advances in Intelligent Manufacturing and Service System Informatics, Şen, Zekai; Uygun , Özer; Erden, Caner, Editor, Springer Nature, pp.174-185, 2023
2. **Thermal Comfort Analysis of Novel Low Exergy Radiant Heating Cooling System and Energy Saving Potential Comparing to Conventional Systems**
KOCA A., GEMİCİ Z., BEDİR K., BÖKE Y. E., KANBUR B. B., TOPACOĞLU Y.
in: Progress in Exergy, Energy, and the Environment, Ibrahim Dincer, Adnan Midilli, Haydar Kucuk, Editor, Springer International Publishing, pp.435-445, 2014

Refereed Congress / Symposium Publications in Proceedings

1. **2- Experimental Investigation of Optimisation of A Battery Electric Vehicle High Voltage Battery Cooling System**
Özgür A., Gemici Z.
ISPEC 16. International Engineering and Science Congress, Girne, Cyprus (Kkct), 1 June - 02 July 2024, pp.492-501
2. **Numerical Prediction of Experimentally Obtained Thermal Performance and Capacity of EC Fan Coil with Artificial Neural Networks During Cooling Process**
Uğuz B., Gemici Z., Tonya D., Çolak A. B., Dalkılıç A. S.
ASES VIII. INTERNATIONAL HEALTH, ENGINEERING AND SCIENCES CONFERENCE, İzmir, Turkey, 6 - 07 April 2024, pp.43-44
3. **Numerical Investigation of RAE M2129 Air Intake Performance With Different Mesh Quality and Turbulence Models**
Gemici Z., Meydan H. Y.
12th International Congress on Engineering, Architecture and Design, İstanbul, Turkey, 23 - 25 December 2023, pp.1-8
4. **The effect of gas port location and diameter on rate of fire in semi and fully automatic assault rifles**
Gemici Z., Karaeli C., Şerbetçi O., Aytuna L., Demir E., Günar Y.
3rd International Conference on Design, Research and Development, İstanbul, Turkey, 13 - 15 December 2023, pp.1-8
5. **Fuzzy Logic-Based Heating and Cooling Control in Buildings Using Intermittent Energy**
EZBER S., AKDOĞAN E., GEMİCİ Z.

12th International Symposium on Intelligent Manufacturing and Service Systems, 18 May 2023

6. **Development of Experimental and Numerical Methods for the Design of a Fuel Heat Exchanger Suitable for Additive Manufacturing for Unmanned Aerial Vehicles**
Topçu D., Gemici Z.
3rd International Symposium of Scientific Research and Innovative Studies, Balıkesir, Turkey, 15 - 18 March 2023, pp.204-218
7. **Experimental Investigation of Heat Transfer and Pressure Drop Characteristics of a Rectangular Narrow Channel Type Heat-Exchanger with Rectangular Staggered Fins**
Gemici Z., Ürkmez Ş.
Global Summit on Advanced Materials & Sustainable Energy (G-AMSE22), Van, Turkey, 3 - 04 October 2022, no.71, pp.1-10
8. **NUMERICAL SIMULATION AND EXPERIMENTAL VALIDATION OF FLOW AND HEAT TRANSFER IN AUTOCLAVING PROCESS**
Terzioğlu H., Erdem M. Y., Güngör B., Gemici Z., Atayılmaz Ş. Ö., Demir H.
16th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT-ATE 2022), Amsterdam, Netherlands, 8 - 10 August 2022, pp.793-1061
9. **A COMPARATIVE ENERGY MODELLING ANALYSES OF AN INTERMITTENT USED SPACE: A MOSQUE EXAMPLE**
OKUMUŞ M., GEMİCİ Z., DEMİR H.
6th International Conference on Advances in Mechanical Engineering, İstanbul, Turkey, 20 October 2021
10. **BİNA TEMELİNE VE ALTINDAKİ TOPRAĞA UYGULANAN TOPRAK KAYNAKLI ISI POMPASI SİSTEMİNİN DENEYSEL ÇALIŞMASI**
KAYACI N., DEMİR H., ATAYILMAZ Ş. Ö., AĞRA Ö., Acet R. C., Gemici Z.
4. Uluslararası Katılımlı Anadolu Enerji Sempozyumu, Edirne, Turkey, 18 April 2018, pp.1
11. **Bina temeline ve altındaki toprağa uygulanan toprak kaynaklı ısı pompası sisteminin deneysel çalışması**
KAYACI N., DEMİR H., ATAYILMAZ Ş. Ö., AĞRA Ö., ACET R. C., GEMİCİ Z.
4. Uluslararası Katılımlı Anadolu Enerji Sempozyumu, 18 - 20 April 2018
12. **YÜZEYDEN ISITMA SOĞUTMA SİSTEMLİ MODÜLER HİBRİD DUVAR TASARIMI VE PERFORMANSININ DEĞERLENDİRİLMESİ**
ERİKÇİ ÇELİK S. N., ZORER GEDİK G., KOCA A., CETİN G., GEMİCİ Z.
2.Ulusal Yapı Fiziği ve Çevre Kontrolü Kongresi, İstanbul, Turkey, 4 - 06 May 2016, pp.243-252
13. **The Performance Evaluation of the Modular Design of HybridWall with Surface Heating and Cooling System**
ERİKÇİ ÇELİK S. N., ZORER GEDİK G., KOCA A., Cetin G., GEMİCİ Z.
International Conference on New Trends in Architecture and Interior Design - 2nd ICNTAD'16, Zagreb, Croatia, 19 - 22 April 2016, pp.297-304
14. **The Performance Evaluation of The Modular Design of Hybrid Wall with Surface Heating and Cooling**
ERİKÇİ S. N., ZORER GEDİK G., KOCA A. İ., ÇETİN G., GEMİCİ Z.
2nd ICNTAD'16- 2nd International Conference on New Trends inArchitecture and Interior Design, Zagreb, Croatia, 19 - 22 April 2016, pp.297-304
15. **A STUDY ON OPTIMUM INSULATION THICKNESS IN WALLS ANDENERGY SAVINGS BASED ON DEGREE DAY APPROACH FOR THREE DIFFERENT DEMOSITES IN EUROPE**
DUMAN Ö., KOCA A., ACET R. C., CETİN G., GEMİCİ Z.
CISBAT 2015 - FUTURE BUILDINGS DISTRICTS SUSTAINABILITY FROM NANO TO URBAN SCALE, Lausanne, Switzerland, 9 - 11 September 2015, vol.1, pp.155-160
16. **Fracture Behaviors Of Aramid-HDPE Composites Subjected to T-Peel Test**
DOĞU M., GEMİCİ Z., ÜNAL A., GÜLER M. H.
10. Uluslararası Kırılma Konferansı, 01 May 2014, pp.210-218
17. **A Lifetime Determination Method For Prepreg-Wound PE Composite Pipes**
Ünal A., Bekem A., Doğu M., Gemici Z., Baydar D. G., Güler M. H.

10. Uluslararası Kırılma Konferansı, Kayseri, Turkey, 24 April 2014, pp.199-209
18. **CONSTRUCTING A CORRELATION BETWEEN FLOW RESISTANCE OF CIRCULAR CORRUGATED PIPES AND GEOMETRIC PARAMETERS USING CFD METHODS**
VAZIFEKHAH S., KAYA K., KOCA A., GEMİCİ Z.
3rd IAHR Europe Congress, Porto, Portugal, 14 - 16 April 2014, pp.12-20
19. **Investigating the Thermal Conductivity of Different Concrete and Reinforced Concrete Models with Numerical and Experimental Methods**
KANBUR B. B., ATAYILMAZ Ş. Ö., DEMİR H., KOCA A., GEMİCİ Z.
4th European Conference of Mechanical Engineering (ECME'13), Paris, France, 29 - 31 October 2013, pp.95-101
20. **A STUDY ON THE OPTIMUM INSULATION THICKNESS AND ENERGY SAVINGS OF A RADIANT HEATING PANEL MOUNTED WALL FOR VARIOUS PARAMETERS**
KANBUR B. B., ATAYILMAZ Ş. Ö., KOCA A., GEMİCİ Z., TEKE İ.
CLIMAMED VII. Mediterranean Congress of Climatization, İstanbul, Turkey, 3 - 04 October 2013, pp.791-797
21. **RADYANT ISITMA PANELLERİ UYGULAMASI İÇİN BİNALARDAKİ OPTİMUM YALITIM KALINLIKLARININ İNCELENMESİ**
KANBUR B. B., ATAYILMAZ Ş. Ö., KOCA A., GEMİCİ Z., TEKE İ.
ULIBTK'13 19. Ulusal Isı Bilimi ve Tekniği Kongresi, Samsun, Turkey, 9 - 12 September 2013, pp.1493-1497
22. **RADYANT ISITMA PANELLERİNDE AÇIĞA ÇIKAN ISI AKILARININ SAYISAL OLARAK İNCELENMESİ**
KANBUR B. B., ATAYILMAZ Ş. Ö., KOCA A., GEMİCİ Z., TEKE İ.
ULIBTK'13 19. Ulusal Isı Bilimi ve Tekniği Kongresi, Samsun, Turkey, 9 - 12 September 2013, pp.1498-1502
23. **SERALARDAKİ DOĞAL HAVALANDIRMA ETKİNLİĞİNİN SAYISAL YÖNTEMLER KULLANILARAK MODELLENMESİ**
TOPACOĞLU Y., BÖKE Y. E., GEMİCİ Z., KOCA A.
ULIBTK'13 19. Ulusal Isı Bilimi ve Tekniği Kongresi, Samsun, Turkey, 9 - 12 September 2013, pp.827-832
24. **THERMAL COMFORT ANALYSIS OF NOVEL LOW EXERGY RADIANT HEATING COOLING SYSTEM AND ENERGY POTANTIAL COMPARING TO CONVENTIONAL SYSTE**
KOCA A., GEMİCİ Z., BEDİR K., BÖKE Y. E., KANBUR B. B., TOPACOĞLU Y.
Sixth International Exergy, Energy and Environment Symposium (IEEES-6), Rize, Turkey, 1 - 04 July 2013
25. **Investigation of Mechanical Properties of Aramid Fiber Reinforced HDPE Composite**
BEKEM A., DOĞU M., GEMİCİ Z., ÜNAL A.
9TH INTERNATIONAL CONFERENCE ON COMPOSITE SCIENCE AND TECHNOLOGY: 2020 - SCIENTIFIC AND INDUSTRIAL CHALLENGES, Naples, Italy, 24 - 26 April 2013, pp.712-722
26. **RADYANT ISITMA VE SOĞUTMA SİSTEMLERİNİN ISILKONFOR ANALİZLERİ**
KOCA A., GEMİCİ Z., BEDİR K., BÖKE Y. E., TOPACOĞLU Y., KANBUR B. B.
11. ULUSAL TESİSAT MÜHENDİSLİĞİ KONGRESİ, İzmir, Turkey, 17 - 20 April 2013, vol.2, pp.2025-2042
27. **Experimental analysis of viscoelastic properties of high density polyethylene (PE100)**
Celikkan O., Palabıyık İ. M., GEMİCİ Z., GÖKGÖZ İ.
ASME 2012 11th Biennial Conference on Engineering Systems Design and Analysis, ESDA 2012, Nantes, France, 2 - 04 July 2012, vol.3, pp.33-37
28. **Experimental analysis of ring stiffnesses of pipes, made of high density polyethylene, due to DIN 16961-2:2010-03 standard**
Palabıyık İ. M., Yavuz A., GEMİCİ Z., GÖKGÖZ İ.
ASME 2012 11th Biennial Conference on Engineering Systems Design and Analysis, ESDA 2012, Nantes, France, 2 - 04 July 2012, vol.1, pp.417-420
29. **ONDÜLELİ DAİRESEL DRENAJ BORULARINDA TÜRBÜLANSLI AÇIK KANAL AKIŞININ SAYISAL OLARAK İNCELENMESİ**
KOCA A., GEMİCİ Z., MEMİŞ R., KAYA K., ÖZCAN O.
3. İLERİ TEKNOLOJİLER ÇALIŞTAYI - İTÇ2012, İstanbul, Turkey, 4 - 06 October 2012
30. **ONDÜLELİ DAİRESEL DRENAJ BORULARINDA AÇIK KANAL AKIŞ DİRENCİNİN DENEYSSEL OLARAK İNCELENMESİ**
KAYA K., GEMİCİ Z., MEMİŞ R., KOCA A., ÖZCAN O.

3. İLERİ TEKNOLOJİLER ÇALIŞTAYI - İTÇ2012, İstanbul, Turkey, 4 - 06 October 2012

31. **THERMAL PERFORMANCE AND COMFORT ANALYSIS OF NOVEL LOW EXERGY RADIANT HEATING COOLING PANELS**
KOCA A., GEMİCİ Z., DOĞU M.
10th International Conference on Sustainable Energy Technologies (SET2011), İstanbul, Turkey, 4 - 07 September 2011
32. **Kendi Kendini Onarabilen Polimerler**
Yılmaz Ç., Cantürk Rodop M., Gökgöz İ., Gemici Z.
Türk Fizik Derneği 28.Uluslararası Fizik Kongresi, Muğla, Turkey, 6 - 09 September 2011, pp.622
33. **A NOVEL LIFETIME PREDICTION METHOD FOR REINFORCED THERMOPLASTIC PIPES UNDER INTERNAL PRESSURE**
ÜNAL A., DOĞU M., GEMİCİ Z., BEKEM A., BAYDAR D. G.
16th International Conference on Composite Structures - ICCS 16, Porto, Portugal, 28 - 30 June 2011
34. **INVESTIGATION OF MECHANICAL PROPERTIES OF BASALT FIBER REINFORCED THERMOPLASTIC COMPOSITES**
BEKEM A., DOĞU M., GEMİCİ Z., BAYDAR D. G., ÜNAL A.
16th International Conference on Composite Structures - ICCS16, Porto, Portugal, 28 - 30 June 2011
35. **INVESTIGATION OF HOT-AIR WELDING PARAMETERS OF POLYETHYLENE HOMOCOMPOSITES**
ALTINBAY A., GEMİCİ Z., DOĞU M., ÜNAL A.
14TH EUROPEAN CONFERENCE ON COMPOSITE MATERIALS, Budapest, Hungary, 7 - 10 June 2010
36. **Sürekli E-Cam Fiber Takviyeli Termoplastik Matrisli Kompozitlerde Arayüzey Yapışmasının Mekanik Özelliklere Etkisi**
ALTINBAY A., DOĞU M., GEMİCİ Z., ÜNAL A.
3. Ulusal Polimer Bilim ve Teknolojisi Kongresi ve Sergisi, Kocaeli, Turkey, 12 - 14 May 2010, pp.230
37. **Termoplastik Boru Ekstruzyonu İçin Spiral Haddeli Kalıp Analizi ve Tasarımı**
DOĞU M., GÖKGÖZ İ., SAYGILI A., GEMİCİ Z.
3. Ulusal Polimer Bilim ve Teknolojisi Kongresi ve Sergisi, Kocaeli, Turkey, 12 - 14 May 2010, pp.225
38. **Enjeksiyon Kalıplama Prosesinde Proses Parametrelerin Polimer-Metal Silindirik Sandviç Yapıların Ara Yüzey Tork Dayanımına Etkisi**
DEVECİ S., ÖKSÜZ Y., GEMİCİ Z.
3. Ulusal Polimer Bilim ve Teknolojisi Kongresi ve Sergisi, Kocaeli, Turkey, 12 - 14 May 2010, pp.73
39. **BORU EKSTRUZYONUNDA SAKAL SORUNU VE ÇÖZÜM ÖNERİLERİ**
DOĞU M., GEMİCİ Z.
II. Ulusal Polimer Bilim ve Teknolojisi Kongresi ve Sergisi, Şanlıurfa, Turkey, 30 April - 02 May 2008, pp.37
40. **ISITMA TESİSATLARINDA POLİPROPİLEN RANDOM KOPOLİMER BORU BAĞLANTI ELEMANLARINDAN ISITMA TESİSATINA GİREN OKSİJEN MİKTARININ HESAPLANMASI**
DEVECİ S., GEMİCİ Z.
II. Ulusal Polimer Bilim ve Teknolojisi Kongresi ve Sergisi, Şanlıurfa, Turkey, 30 April - 02 May 2008, pp.29
41. **YÜKSEK YOĞUNLUKLU POLİETİLENİN AKIŞ DAVRANIŞLARININ TASARLANAN BİR KAPILAR REOMETRE İLE BELİRLENMESİ**
GÖKGÖZ İ., GÜNER F. S., GEMİCİ Z.
II. Ulusal Polimer Bilim ve Teknolojisi Kongresi ve Sergisi, Şanlıurfa, Turkey, 30 April - 02 May 2008, pp.36
42. **A STATISTICAL APPROACH TO PLASTIC PIPE PRODUCTION**
DEVECİ S., GEMİCİ Z., ÖNER M.
ANTEC 2007 Plastics: Annual Technical Conference Proceedings, Cincinnati, United States Of America, 6 - 11 May 2007, pp.2931-2939
43. **POLİPROPİLEN RANDOM KOPOLİMER BORU ÜRETİMİNE PROSES PARAMETRELERİNİN ETKİSİNİN İNCELENMESİ**
DEVECİ S., GEMİCİ Z., ÖNER M.
I. Ulusal Polimer Bilim ve Teknolojisi Kongresi ve Sergisi, Ankara, Turkey, 21 - 23 June 2006, pp.41

Academic and Administrative Experience

2020 - Continues	BAP Scientific Commissioner	Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering
2018 - 2021	Vice Dean	Yildiz Technical University, Faculty Of Mechanical Engineering

Courses

Thermodynamics II, Undergraduate, 2023 - 2024, 2022 - 2023, 2020 - 2021, 2019 - 2020, 2018 - 2019
Thermal Radiation, Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
Thermodynamics I, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
Heat Transfer 1, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022
Polimer Makineleri II, Associate Degree, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010,
2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005
Polimer Makineleri 1, Associate Degree, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010,
2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005

Advising Theses

Gemici Z., Soğutma Prosesi Sırasında EC Fan Coil'in Deneysel Olarak Elde Edilen Isıl Performansının ve Kapasitesinin Yapay Sinir Ağları ile Sayısal Tahmini, Postgraduate, B.UĞUZ(Student), 2024
Atayılmaz Ş. Ö., Gemici Z., ISI DEĞİŞTİRİCİ HAVA TARAFI ISI TRANSFER PERFORMANSINI ARTTIRMAK AMACIYLA PARAMETRELERİN NÜMERİK VE DENEYSEL OLARAK İNCELENMESİ, Doctorate, F.ERDEM(Student), 2024
Akdoğan E., Gemici Z., Fuzzy Logic Based Heating and Cooling Control in Structures Using Discrete Energy, Postgraduate, S.EZBER(Student), 2023
Gemici Z., INVESTIGATION ON SINGLE-PHASE HEAT TRANSFER ENHANCEMENT THROUGH MINIATURE PIN-FIN SURFACE EXTENSION FOR BATTERY THERMAL MANAGEMENT SYSTEMS, Postgraduate, Ş.ÜRKMEZ(Student), 2023
Gemici Z., İnsansız Hava Araçları İçin Eklemeli İmalat Yöntemiyle Yakıt Eşanjörü Geliştirilmesi, Postgraduate, D.TOPCU(Student), 2023
Gemici Z., Böke Y. E., Dikey dalan sıvı jeti için farklı jet çıkış geometrilerinin havalandırma miktarına etkisinin sayısal olarak incelenmesi, Postgraduate, B.ALP(Student), 2017
Gemici Z., Atayılmaz Ş. Ö., Yüzeyden ısıtma sistemli modüler hibrit duvar panelindeki alüminyum folyonun ölçülerinin belirlenmesi, Postgraduate, M.GÜRSEL(Student), 2016

Patent

Gemici Z., Birtane T., Koca A., Saygılı A. M., Seralar için iklimlendirme ünitesi ve iklimlendirme yöntemi, Patent, CHAPTER A Human Needs, The Invention Registration Number: 2015 17497 , Standard Registration, 2021
Koca A., Gemici Z., Modular hybrid wall, Patent, CHAPTER E Constructed Constructions (Construction), The Invention Registration Number: 2020 09119 , 2020
Deveci S., Gemici Z., Öksüz Y., Plastik malzemeye artırılmış yapışmaya sahip bağlantı elemanları ya da boru tesisatı öğeleri, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2017 11775 , Standard Registration, 2017
Gemici Z., Teke İ., Dağlarda bulunan karın su temini ve soğutma amacıyla şehirlere taşınması için bir yöntem, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2007 06010 , Standard Registration, 2016
Gemici Z., Birtane T., Kendiışler S., Saygılı A. M., MOLDING CORE, MOLD AND FLUID-AIDED MOLDING METHOD, Patent,

CHAPTER B Implementation of Operations; Transport, The Invention Recourse Number: WO2017116323 , Standard Registration, 2015

Gemici Z., Kendiışler S., Aslan İ. Ö., Birtane T., Hibrit fitting yapılanması ve bunu içeren tesisat elemanları, Utility Model, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2013 00349 , Standard Registration, 2015

Gemici Z., Birtane T., Kendiışler S., Akbayır E., Doğu M., System and method for continuous strip winding onto lateral surface of longitudinal objects, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Recourse Number: PCT/WO2017116320 , Standard Registration, 2015

Aslan İ. Ö., Gemici Z., Kendiışler S., Dere L., Birtane T., Yeni nesil yalıtımlı kılıf borusu ve bunu içeren boru sistemi, Utility Model, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: 2013 01805 , Standard Registration, 2015

Koca A., Gemici Z., Modular hybrid wall assembly, Patent, CHAPTER E Constructed Constructions (Construction), The Invention Registration Number: EP2895666 (B1) , Triadic Registration, 2020, 2015

Gemici Z., Birtane T., Kendiışler S., Güler Ü., Teke İ., System and method for forming continuous profiled tubes, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Recourse Number: PCT/WO2017116322 , Standard Registration, 2015

Birtane T., Gemici Z., Teke İ., Kendiışler S., Güler Ü., Sabit malafa, Patent, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: 2009 02113 , Standard Registration, 2015

Mirmahmutoğulları İ., Gemici Z., Yerinde toprak oto-analiz cihazı, Patent, CHAPTER G Physics, The Invention Registration Number: 2014 00632 , Standard Registration, 2014

Gemici Z., Aslan İ. Ö., Birtane T., Hibrit fitting yapılanması ve bunu içeren tesisat elemanları, Utility Model, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2012 13009 , Standard Registration, 2014

Gemici Z., Deveci S., Birtane T., Öksüz Y., Teke İ., System and method for gas diffusion coefficient measurement of three-dimensional hollow bodies having one opening, Patent, CHAPTER G Physics, The Invention Recourse Number: PCT/EP3021103 , Standard Registration, 2014

Deveci S., Öksüz Y., Gemici Z., Fitting elements or piping units having improved adherence to plastic material, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: EA025682 (B1) , Standard Registration, 2017, 2014

Deveci S., Öksüz Y., Gemici Z., Mutlu M., Method for producing a polymer coated copper-zinc alloy structure with improved adherence, Patent, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: EP2468422 , Standard Registration, 2013

Gemici Z., Saygılı A. M., Birtane T., Sulama sistemlerinde kullanılan başlık ekipmanı, Industrial Design, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2013 00969 , Standard Registration, 2013

Birtane T., Gemici Z., Güler Ü., Kendiışler S., Teke İ., Sarmal birleştirme sistemi, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2009 02114 , Standard Registration, 2013

Mirmahmutoğulları İ., Gemici Z., In-Situ Soil Auto-Analyzer, Patent, CHAPTER G Physics, The Invention Registration Number: EP2518491 , Standard Registration, 2013, 2014

Doğu M., Gemici Z., Saygılı A. M., Method and apparatus for preventing die drool at plastic pipe extrusion molding, Patent, CHAPTER B Implementation of Operations; Transport, The Invention Recourse Number: EP2873506A1 , Standard Registration, 2013

Gemici Z., Teke İ., Küçük molekülü gaz akışkanların taşınması için plastik esaslı boru, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2007 06009 , Standard Registration, 2013

Deveci S., Öksüz Y., Gemici Z., Mutlu M., İyileştirilmiş yapışma özelliğine sahip, polimer kaplı bir bakır-çinko alaşım yapısının üretimi için yöntem, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2013 10134 , Standard Registration, 2013

Gemici Z., Aslan İ. Ö., Birtane T., Dış Dişli Bağlantı Elemanı, Industrial Design, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2012 05588 , Standard

Registration, 2012

Gemici Z., Birtane T., Doğu M., Güler Ü., Thermoplastic pipe having longitudinally arranged continuous fiber reinforcement and production method thereof, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Recourse Number: EP2667072 , Standard Registration, 2012

Memiş R., Koca A., Gemici Z., Device for aeration of water, Patent, CHAPTER B Implementation of Operations; Transport, The Invention Recourse Number: EP2614882 , Standard Registration, 2012

Birtane T., Güler Ü., Teke İ., Kendiışler S., Gemici Z., Sarmal boru üretim yönteminde yenilik, Patent, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: 2007 08643 , Standard Registration, 2012

Kendiışler S., Birtane T., Gemici Z., Flanş adaptörü fitting veya boru üretim yöntemi ve yöntemin uygulandığı kalıp tertibatı, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2005 02220 , Standard Registration, 2011

Koca A., Gemici Z., Teke İ., Heating system with improved heat transfer between tubing and plates, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Recourse Number: EP2444746 , Standard Registration, 2010

Gemici Z., Kaynak E., Birtane T., Kendiışler S., Bağlantı Parçası (Te Kavis), Industrial Design, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2010 01619 , Standard Registration, 2010

Birtane T., Özkurt B., Kaynak E., Gemici Z., Sıhhi tesisat malzemesi, Industrial Design, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2010 06324 , Standard Registration, 2010

Gemici Z., Teke İ., Uğurlu H., Akışkan teknik borularında basınç dengeleme metot ve sistemi, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2003 02366 , Standard Registration, 2009

Gemici Z., Teke İ., Birtane T., Çok katmanlı kompozit boruda bir iyileştirme, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2005 01801 , Standard Registration, 2009

Birtane T., Güler Ü., Teke İ., Kendiışler S., Gemici Z., Otomatik plastik kollektör kaynak makinası, Utility Model, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: 2007 08602 , Standard Registration, 2009

Koyun A., Uğurlu H., Gemici Z., Lastik borular için sıcak pens ile kaynak yapılması, Patent, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: 2003 02367 , Standard Registration, 2009

Güler Ü., Kendiışler S., Gemici Z., Birtane T., Soket kaynak makinesi, Utility Model, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: 2007 04547 , Standard Registration, 2008

Birtane T., Kendiışler S., Gemici Z., Güler Ü., Taşınabilir plastik boru şekillendirme aparatı, Utility Model, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: 2007 06012 , Standard Registration, 2008

Birtane T., Kendiışler S., Gemici Z., Güler Ü., Kavis üretiminde farklı bir çözüm, Utility Model, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: 2007 06011 , Standard Registration, 2008

Kendiışler S., Akyıldız M., Koyun A., Teke İ., Birtane T., Gemici Z., Ön izolasyonlu borular için birleştirme metodu ve tertibatı, Patent, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: 2003 02353 , Standard Registration, 2008

Gemici Z., Teke İ., Mirmahmutoğulları A., Birtane T., Plastik-metal kompozit malzemelerde farklı iki cins metal kullanımı, Utility Model, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2006 03148 , Standard Registration, 2007

Gemici Z., Canpolat F., Birtane T., İki taraflı kaynaklı rekor, Utility Model, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2005 01800 , Standard Registration, 2006

Gemici Z., Birtane T., Alın Düzeltme Aparatı (Borular için), Industrial Design, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2006 04107 , Standard Registration, 2006

Kendiışler S., Birtane T., Gemici Z., Metal malzemeden üretilmiş rekorlarda iyileştirme, Utility Model, CHAPTER F

Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2006 03628 , Standard Registration, 2006

Kendişler S., Altıntaş S., Beyenal S., Gemici Z., Teke İ., Plastik esaslı boru birleştirme elemanları için üretim yöntemi, Patent, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: 2002 02415 , Standard Registration, 2006

Gemici Z., Birtane T., Borular için kaynak paftası, Industrial Design, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2006 04106 , Standard Registration, 2006
Canpolat F., Birtane T., Gemici Z., Fiitingerde kullanılan metal geçiş elemanlarında iyileştirme, Utility Model, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2005 02237 , Standard Registration, 2006

Birtane T., Gemici Z., Alın düzeltme aparatı, Utility Model, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2006 00242 , Standard Registration, 2006

Kendişler S., Birtane T., Gemici Z., Eğimli çıkıntıya sahip boru birleştirme aparatı, Utility Model, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: 2005 02328 , Standard Registration, 2006

Birtane T., Gemici Z., Kendişler S., Kolayca sökölüp takılabilen boru birleştirme aparatı., Utility Model, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2005 02306 , Standard Registration, 2006

Kendişler S., Birtane T., Gemici Z., Menteşeli boru birleştirme, Utility Model, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2005 03668 , Standard Registration, 2006

Gemici Z., Teke İ., Birtane T., An improvement in the multilayered composite pipe, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: ES2346384 , Standard Registration, 2013, 2008, 2011, 2010, 2014, 2006

Gemici Z., Birtane T., Beyenal S., Koyun A., Çok gözlü boru taşıma ve istifleme aparatı, Utility Model, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: 2003 01282 , Standard Registration, 2005

Kendişler S., Birtane T., Gemici Z., Elektrofüzyon birleştirmede tel sarım tekniği, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Recourse Number: 2005/02267 , Standard Registration, 2005

Gemici Z., Birtane T., Beyenal S., Boru bağlantısı için mandal, Utility Model, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2003 00675 , Standard Registration, 2004

Memberships / Tasks in Scientific Organizations

Management Board, Board Member, 2012 - 2018, Turkey

Management Board, Vice President, 2006 - 2018, Turkey

Management Board, Board Member, 2010 - 2016, Belgium

Scientific Refereeing

NUMERICAL HEAT TRANSFER; PART A: APPLICATIONS, SCI Journal, May 2023

Horizon Europe Project, Horizon Europe Project, European Innovation Council and SMEs Executive Agency, Belgium, November 2022

Horizon Europe Project, Horizon Europe Project, European Innovation Council and SMEs Executive Agency, Belgium, October 2022

Horizon Europe Project, Horizon Europe Project, European Innovation Council and SMEs Executive Agency, Belgium, December 2021

Horizon Europe Project, Horizon Europe Project, European Innovation Council and SMEs Executive Agency, Belgium,

September 2021

Journal of Thermal Engineering, Journal Indexed in ESCI, March 2021

TUBITAK Project, 1002 - Quick Support Program, Erciyes University, Turkey, January 2021

Project Supported by Higher Education Institutions, BAP Guided, Yildiz Technical University, Turkey, January 2021

H2020 Project, H2020 Research Infrastructures Project, European Commission -Executive Agency for SMEs, Belgium, July 2020

H2020 Project, H2020 Research Infrastructures Project, European Innovation Counsel, SME Instrument, Belgium, October 2019

TUBITAK Project, 1501 - Industry R & D Projects Support Program, SERDAR PLASTİK SAN. VE TİC. A.Ş., Turkey, September 2019

H2020 Project, H2020 Research Infrastructures Project, European Innovation Counsel, SME Instrument, Belgium, September 2019

APPLIED ENERGY, SCI Journal, August 2019

APPLIED ENERGY, SCI Journal, August 2019

Technopark, Yildiz Technical University, Turkey, August 2019

H2020 Project, H2020 Research Infrastructures Project, European Innovation Counsel, SME Instrument, Belgium, May 2019

H2020 Project, H2020 Research Infrastructures Project, European Innovation Counsel, SME Instrument, Belgium, April 2019

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, YALABIK MÜH. ELEKTRONİK TEKNOLOJİLERİ TİC. VE SAN. LTD. ŞTİ., Turkey, March 2019

Scientific Consultations

Öztiryakiler Madeni Eşya San. ve Tic. A.Ş, Scientific Consultancy, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, Turkey, 2022 - Continues

Günalsan Pompa, Project Consultancy, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, Turkey, 2021 - Continues

Kalekalıp A.Ş., Project Consultancy, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, Turkey, 2021 - Continues

TUSAŞ - TAI, Scientific Consultancy, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, Turkey, 2019 - Continues

Dalgakıran Kompresör, Scientific Consultancy, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, Turkey, 2021 - 2022

Mir Araştırma ve Geliştirme A.Ş., Scientific Consultancy, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, Turkey, 2019 - 2021

Metrics

Publication: 71

Citation (WoS): 133

Citation (Scopus): 195

H-Index (WoS): 4

H-Index (Scopus): 4

Research Areas

Management, Entrepreneurship and Innovation Management, Mechanical Engineering, Energy, Thermodynamics,

Engineering and Technology

Non Academic Experience

Technology Development Zone, Istanbul University Technopark, Administration

Business Establishment Private, Mir Arařtırma Ve Geliřtirme A.ř., Management

Non-profit Organisation, Uluslararası Teknoloji Birlięi, Yönetim Kurulu

European Union, ACQUAEU (EUREKA CLUSTER FOR WATER), Management Board

Business Establishment Private, Dizayn Teknik Plastik Boru ve Elemanları A.ř., Research and Development

Business Establishment Private, Dizayn Grup, Beylikdüzü, İstanbul, Research and Development

Business Establishment Private, Arçelik A.ř. ArGe Merkezi, Research and Development