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International Researcher IDs

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Publons / Web Of Science ResearcherID: JCO-2416-2023

ScopusID: 57219975361

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Education Information

Doctorate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, FEN BİLİMLERİ ENSTİTÜSÜ, Turkey 2016 - 2022

Postgraduate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Otomotiv Mühendisliği (YI) (Tezli), Turkey 2013 - 2016

Undergraduate, Yildiz Technical University, Faculty Of Mechanical Engineering, Makine Mühendisliği Bölümü, Turkey 2008 - 2012

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Elektrikli araçlarda batarya termal yönetim sistemlerinin optimum tasarım, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, FEN BİLİMLERİ ENSTİTÜSÜ, 2022

Postgraduate, Numeric investigation of injection characteristics in direct injection engines, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, FEN BİLİMLERİ ENSTİTÜSÜ, 2016

Research Areas

Mechanical Engineering, Energy, Energy storage technologies, Fuels and Combustion, Internal Combustion Engines

Academic Titles / Tasks

Assistant Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, OTOMOTİV MÜHENDİSLİĞİ, 2022 - Continues

Research Assistant, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, OTOMOTİV MÜHENDİSLİĞİ, 2013 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Prevention of the Fracture Problem Occurring in Automotive Alternator Heatsink Blocks Using Artificial Intelligence**
Kökden D., Egi A., Bulut E., Albak E. İ., Korkmaz İ., Öztürk F.
APPLIED SCIENCES-BASEL, vol.14, no.24, 2024 (SCI-Expanded)
- II. **A Comparative Study on Conventional and Hybrid Quenching Hot Forming Methods of 22MnB5 Steel for Mechanical Properties and Microstructure**
Esiyok F., ERTAN R., SEVİLGEN G., BULUT E., Ozturk F., Alyay I., Abi T. T.
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, vol.32, no.3, pp.1347-1356, 2023 (SCI-Expanded)
- III. **Smart cooling design using dual loop cooling to increase engine efficiency and decrease fuel emissions with artificial intelligence**
Kula S., BULUT E., Altay E., Sumer O., Ozturk F.
CASE STUDIES IN THERMAL ENGINEERING, vol.40, 2022 (SCI-Expanded)
- IV. **Estimation of Energy Management Strategy Using Neural-Network-Based Surrogate Model for Range Extended Vehicle**
Türker E., Bulut E., Kahraman A., Çakıcı M., Öztürk F.
APPLIED SCIENCES-BASEL, vol.12, no.24, 2022 (SCI-Expanded)
- V. **Prediction and optimization of the design decisions of liquid cooling systems of battery modules using artificial neural networks**
Bulut E., Albak E. İ., Sevilgen G., Öztürk F.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, no.6, pp.7293-7308, 2022 (SCI-Expanded)
- VI. **MULTI-OBJECTIVE OPTIMIZATION OF LIQUID COOLING SYSTEM FOR A TWELVE-CELL BATTERY MODULE**
Bulut E., Albak E. İ., Sevilgen G., Öztürk F.
HEAT TRANSFER RESEARCH, vol.53, no.4, pp.15-32, 2022 (SCI-Expanded)
- VII. **A new approach for battery thermal management system design based on Grey Relational Analysis and Latin Hypercube Sampling**
Bulut E., Albak E. İ., Sevilgen G., Öztürk F.
CASE STUDIES IN THERMAL ENGINEERING, vol.28, 2021 (SCI-Expanded)
- VIII. **Three dimensional numerical analysis of heat transfer during spray quenching of 22MnB5 steel with a single nozzle**
BULUT E., SEVİLGEN G., Esiyok F., ÖZTÜRK F., Abi T. T.
HEAT AND MASS TRANSFER, vol.57, no.6, pp.961-974, 2021 (SCI-Expanded)
- IX. **THE INVESTIGATION OF THE EFFECTS OF SPRAY PARAMETERS ON THE THERMAL AND MECHANICAL PROPERTIES OF 22MnB5 STEEL DURING HYBRID QUENCHING PROCESS**
Sevilgen G., Ertan R., Bulut E., Öztürk F., Esiyok F., Abi T. T., Alyay I.
HEAT TRANSFER RESEARCH, vol.52, no.14, 2021 (SCI-Expanded)

Articles Published in Other Journals

- I. **INVESTIGATION OF THE EFFECT OF DIFFERENT DESIGN AND FLOW PARAMETERS ON BATTERY COOLING SYSTEM PERFORMANCE**
Dönmez E., Bulut E.
Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, vol.29, no.3, pp.819-830, 2024 (Peer-Reviewed Journal)
- II. **LPG YAKITLI BUJİ ATEŞLEMELİ MOTORUN ISINMA PERİYODUNDA OKSİJEN İLE ZENGİNLEŞTİRİLMİŞ EMME HAVASININ PERFORMANS VE EGZOZ EMİSYONLARINA OLAN ETKİLERİNİN İNCELENMESİ**
Baskın N., ERKUŞ B., BULUT E., Çiçek A., Türköz N.
Uludağ University Journal of The Faculty of Engineering, vol.23, no.1, pp.403-416, 2018 (Peer-Reviewed Journal)

Papers Published in Refereed Scientific Meetings

- I. **The Effect of Spray Parameters on The Cooling Rate of High Strength Steel 22MnB5**
Sevilgen G., Ertan R., Bulut E., Öztürk F., Eşiyok F., Alyay İ., Abi T. T.
10th International Automotive Technologies Congress (OTEKON 2020), Bursa, Turkey, 6 - 07 September 2021, pp.659-667
- II. **Hybrid Quenching Method for Hot Stamping Prototype Process**
Sevilgen G., Ertan R., Bulut E., Öztürk F., Eşiyok F., Alyay İ., Abi T. T.
10th International Automotive Technologies Congress (OTEKON 2020), Bursa, Turkey, 6 - 07 September 2021, pp.649-658
- III. **Elektrikli araç batarya soğutma sistemlerinin incelenmesi**
Bulut E., Sevilgen G., Öztürk F.
9th International Automotive Technologies Congress, Bursa, Turkey, 7 - 08 May 2018, pp.1766-1773
- IV. **Numerical Modelling of Acoustic Cavitation Generated by an Ultrasonic Sonotrode Device**
Bulut E., Sevilgen G.
OTEKON 2018 9th International Automotive Technologies Congress, Bursa, Turkey, 7 - 08 May 2018, vol.1
- V. **İçerik Boş Koni Tip Yakıt Demetinin Farklı Ortam Sıcaklık ve Basınçlarındaki Karakteristiklerinin Nümerik İncelenmesi**
Bulut E., Karamangil M. İ.
10th International Clean Energy Symposium, İstanbul, Turkey, 24 October - 26 November 2016, pp.461-468
- VI. **Direkt Püskürtmeli Benzin Motorunda Kademeli Dolgu Modunda Çalışmada Karışım Oluşumunun Nümerik İncelenmesi**
BULUT E., KARAMANGİL M. İ.
OTEKON 2016, Bursa, Turkey, 23 - 24 May 2016

Supported Projects

Sevilgen G., Kılıç M., Etemoğlu A. B., Karpat F., Kaya N., Sürmen A., Karamangil M. İ., Kuş A., Çavdur F., Cindoruk S. S., et al, TUBITAK Project, TÜBİTAK 1004 (Mükemmeliyet Merkezi Destek Programı) Elektrikli Taşıtlar İçin Batarya Teknolojileri Araştırma ve Geliştirme Platformu (BATEG), 2022 - 2026

Sevilgen G., Bulut E., Terzioğlu B., TUBITAK Project, TÜBİTAK 1509 (AB Projesi / EUREKA) Elektrikli Araçların Enerji Üniteleri İçin Hafif Hibrit Tasarıma Sahip Batarya Taşıyıcısının Geliştirilmesi, 2021 - 2022

Patent

Sevilgen G., Dursun H., Zimmer M. O., Çakarel M., Karamangil M. İ., Bulut E., KAPLAMA AŞINMA DİRENCİNİN DEĞERLENDİRİLMESİ İÇİN SİSTEM VE YÖNTEM, Patent, CHAPTER G Physics, The Invention Registration Number: 2016 19863 , Standard Registration, 2021

Metrics

Publication: 17
Citation (WoS): 78
Citation (Scopus): 87
H-Index (WoS): 4
H-Index (Scopus): 4