Asst. Prof. MERT ÖZSABAN

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Education Information

Doctorate, İstanbul University-Cerrahpaşa, Institute Of Graduate Education, Department Of Mechanical Engineering, Turkey 2014 - 2020
Postgraduate, Niğde Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği A.B.D, Turkey 2007 - 2009
Undergraduate, Niğde Üniversitesi, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği Bölümü, Turkey 2002 - 2007

Dissertations

Doctorate, Salınımlı akış için dalgalı yüzeyli kanallarda ısı geçişi ve basınç düşümünün lattıce boltzmann metoduyla sayısal incelenmesi, İstanbul University-Cerrahpaşa, Institute Of Graduate Education, Department Of Mechanical Engineering, 2020
Postgraduate, YÜKSEK BASINÇTA HİDROJEN DEPOLAMA İŞLEMİNİN TERMODİNAMİK MODELLENMESİ VE ENERJİ SÜRDÜRÜLEBİLİRLİK ANALİZİ, Niğde Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği A.B.D., 2009

Research Areas

Mechanical Engineering, Energy, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, MAKİNE MÜHENDİSLİĞİ, 2021 - Continues
Research Assistant, Recep Tayyip Erdogan University, Mühendislik Ve Mimarlık Fakültesi, Makine Mühendisliği, 2012 - 2021

Academic and Administrative Experience

Head of Department, Recep Tayyip Erdogan University, Mühendislik Ve Mimarlık Fakültesi, Makine Mühendisliği, 2021 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

I. **LBM curved boundary treatments for pulsatile flow on convective heat transfer and friction factor in corrugated channels**
ASLAN E., ÖZSABAN M., KUCUR M., KÖRBAHTİ B., Guven H. R.
Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, vol.238, no.6, pp.2489-2512, 2024 (SCI-Expanded)

II. **A Numerical Analysis of Convection Heat Transfer and Friction Factor for Oscillating Corrugated Channel Flows**
Aslan E., Ozsaban M., Ozcelik G., Guven H. R.
HEAT TRANSFER ENGINEERING, vol.42, pp.181-190, 2021 (SCI-Expanded)

III. **Exergetic sustainability indicators for a high pressure hydrogen production and storage system**
Midilli A., INAC S., OZSABAN M.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.33, pp.21379-21391, 2017 (SCI-Expanded)

IV. **A parametric study on exergetic sustainability aspects of high-pressure hydrogen gas compression**
OZSABAN M., Midilli A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.11, pp.5321-5334, 2016 (SCI-Expanded)

V. **Exergy analysis of a high pressure multistage hydrogen gas storage system**
ÖZSABAN M., MİDİLLİ A., DINCER I.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.36, no.17, pp.11440-11450, 2011 (SCI-Expanded)

Articles Published in Other Journals

I. **Numerical Investigation of Incompressible Forced Convection in a Channel with a Rectangular Prism**
Özsaban M., Aslan E., Güven H. R.
Sakarya University of Journal Science, vol.24, no.1, pp.10-18, 2020 (Peer-Reviewed Journal)

Books & Book Chapters

I. **Comparison of Energy Performance and Static Loads on a Building Integrated Wind, Solar, and Rainwater Harvester**
Gürbüz A., Akbulut U., Özsaban M.
in: Progress in Exergy Energy and the Environment, İbrahim Dinçer,Adnan Midilli,Haydar Küçük, Editor, Springer, London, pp.875-884, 2014

Refereed Congress / Symposium Publications in Proceedings

I. **A Parametric Study on Exergetic Performance of Hydropower Integrated Hydrogen Production: A Case Study for East Black-Sea Region of Turkey**
MİDİLLİ A., ÖZSABAN M.
3rd International Hydrogen Technologies Congress, 15 - 18 March 2018

II. **Numerical investigation for convective heat transfer and friction factor under pulsating flow conditions**
Aslan E., ÖZSABAN M., Ozcelik G., Guven H. R.
11th International Conference on Computational Heat, Mass and Momentum Transfer (ICCHM2T), Cracow, Poland, 21 - 24 May 2018, vol.240

III. **A Parametric Study on A Run-of-the River Mini Hydropower Plant Integrated Hydrogen Production**
MİDİLLİ A., ÖZSABAN M.
The Second International Hydrogen Technologies Congress, Adana, Turkey, 15 - 18 March 2017, vol.1, pp.312-316

IV. **A Parametric Study on A Run-of-the River Mini HydropowerPlant Integrated Hydrogen Production**

ÖZSABAN M., MİDİLLİ A.
2nd International Hydrogen Technologies Congress, Adana, Turkey, 15 - 18 March 2017

V. **A PARAMETRIC STUDY ON EXERGOECONOMIC ANALYSIS OF HIGH PRESSURE HYDROGEN STORAGE**
ÖZSABAN M., MİDİLLİ A.
2nd INTERNATIONAL CONFERENCE ON ENERGY SYSTEMS - ICES2016, İstanbul, Turkey, 21 - 23 December 2016, pp.462

VI. **Exergy based environmental effect of PEM electrolyser integrated hydrogen gas storage system**
ÖZSABAN M., İNAÇ S., MİDİLLİ A.
8th International Exergy, Energy and Environment Symposium (IEEES-8), Antalya, Turkey, 1 - 04 May 2016, pp.491-495

VII. **DEVELOPMENT OF EXERGETIC SUSTAINABILITY PARAMETERS FOR HIGH PRESSURE HYDROGEN COMPRESSION PROCESS**
ÖZSABAN M., MİDİLLİ A., DINCER I.
ULUSAL HİDROJEN TEKNOLOJİLERİ KONGRESİ, İstanbul, Turkey, 21 - 23 December 2015, pp.51

VIII. **DEVELOPMENT OF EXERGETIC SUSTAINABILITY PARAMETERS FOR HIGH PRESSURE HYDROGEN COMPRESSION PROCESS**
ÖZSABAN M., MİDİLLİ A., DINCER I.
ULUSAL HİDROJEN TEKNOLOJİLERİ KONGRESİ, İstanbul, Turkey, 20 - 23 December 2015, pp.51

IX. **COMPARISON OF THE ENERGY PERFORMANCE AND STATIC LOADS ON A BUILDING INTEGRATED WIND SOLAR AND RAIN WATER HARVESTER**
GÜRBÜZ A., AKBULUT U., ÖZSABAN M.
the Sixth InternationalExergy, Energy and Environment Symposium (IEEES-6), 1 - 04 July 2013, vol.1, pp.137-144

X. **YÜKSEK BASINÇLI ÇOK AŞAMALI HİDROJEN SIKIŞTIRMA İŞLEMİNİN PARAMETRİK ARAŞTIRILMASI**
ÖZSABAN M., MİDİLLİ A., DİNCER İ.
8. ULUSAL TEMİZ ENERJİ SEMPOZYUMU, Bursa, Turkey, 1 - 05 December 2010

XI. **EXERGY ANALYSIS OF A HIGH PRESSURE MULTISTAGE HYDROGEN GAS STORAGE SYSTEM**
ÖZSABAN M., MİDİLLİ A., DİNCER İ.
International Conference on Hydrogen Production (ICH2P-2010) With Emphasis on Storage and Safety, İstanbul, Turkey, 16 - 18 June 2010

Metrics

Publication: 18
Citation (WoS): 53
Citation (Scopus): 58
H-Index (WoS): 4
H-Index (Scopus): 4