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Education Information

Doctorate, Suleyman Demirel University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 2014 - 2020

Postgraduate, Suleyman Demirel University, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, Turkey 2011 - 2014

Undergraduate, Hatay Mustafa Kemal University, Faculty Of Engineering, Turkey 2005 - 2009

Dissertations

Doctorate, IN ORDER INCREASING THE PERMANENT MOLD COOLING PERFORMANCE, PRODUCED BY ADDITIVE MANUFACTURING METHOD MOLD CORE COOLING CHANNEL DESIGN, ANALYSIS AND OPTIMIZATION, Suleyman Demirel University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2020

Postgraduate, Bir plakalı ısı değiştiricinin kompakt olarak tasarlanması ve farklı kanal açılarında optimizasyonu, Suleyman Demirel University, Fen Bilimleri Enstitüsü, 2014

Research Areas

Mechanical Engineering, Energy, Fluid Mechanics, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Suleyman Demirel University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2011 - Continues

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **A Numerical and Experimental Investigation of the Thermal Behavior of a Permanent Metal Mold with a Conventional Cooling Channel and a New Cooling Channel Design**
KAN M., İPEK O.
INTERNATIONAL JOURNAL OF METALCASTING, 2021 (Journal Indexed in SCI)
- II. **Design of conformal cooling channels by numerical methods in a metal mold and calculation of exergy destruction in channels**
BOLATTÜRK A., İPEK O., KURTULUŞ K., KAN M.
SCIENTIA IRANICA, vol.26, no.6, pp.3255-3261, 2019 (Journal Indexed in SCI)
- III. **Investigation of transient numerical simulation of solidification and thermal behavior of metal molds with conformal cooling channels**
İPEK O., BOLATTÜRK A., KAN M., KURTULUŞ K.
SCIENTIA IRANICA, vol.26, no.6, pp.3325-3333, 2019 (Journal Indexed in SCI)

- IV. **Numerical Investigation on Hydrodynamic Combustion and NO_x Emission Behavior in 8 MW Circulating Fluidized Bed**
İPEK O., GÜREL B., KAN M.
ACTA PHYSICA POLONICA A, vol.132, no.3, pp.553-557, 2017 (Journal Indexed in SCI)
- V. **Examination of Different Heat Exchangers and the Thermal Activities of Different Designs**
İPEK O., KAN M., GÜREL B.
ACTA PHYSICA POLONICA A, vol.132, no.3, pp.580-584, 2017 (Journal Indexed in SCI)
- VI. **Numerical Analysis of Oxy-Coal Combustion System Burning Pulverized Coal Mixed with Different Flue Gas Mass Flow Rates**
İPEK O., Gürel B., KAN M.
Journal of Energy Engineering, vol.143, no.2, 2017 (Journal Indexed in SCI)
- VII. **Numerical Analysis of Pulverised Coal Fired Boiler with Different Burner Geometries**
Gurel B., Ipek O., Kan M.
ACTA PHYSICA POLONICA A, vol.128, 2015 (Journal Indexed in SCI)
- VIII. **Plate Heat Exchangers as a Compact Design and Optimization of Different Channel Angles**
Kan M., Ipek O., Gurel B.
ACTA PHYSICA POLONICA A, vol.128, 2015 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Heating System Application with Ground Source Heat Pump for Isparta Climate Conditions**
İPEK O., ALKHALIDI M., KAN M., GÜREL B., ALOMARI S.
International Journal of Multidisciplinary Studies and Innovative Technologies, vol.2, no.1, pp.14-16, 2018 (Refereed Journals of Other Institutions)
- II. **Numerical investigation of Cooling Performance in Classic and New Cooling Channels of Mold Core**
İPEK O., KAN M.
Open Access Journal of Physics, vol.2, no.3, pp.5-14, 2018 (Refereed Journals of Other Institutions)
- III. **Design, Analysis and Prototyping of the Combined Heating and Cooling System with Solar Energy**
İPEK O., ALOMARI S., GÜREL B., KAN M., ALKHALIDI M.
International Journal of Multidisciplinary Studies and Innovative Technologies, vol.2, no.1, pp.5-7, 2018 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **Isparta'nın (Türkiye) İklim Koşullarında Toprak - Kaynaklı Isı Pompası Kullanılan Bir Isıtma Sistemine Çoklu Volumetrik Akış Oranları ile Farklı Konsantrasyonlardaki Su Etilen Glikol Çözeltilisinin Etkileri**
İPEK O., KILIÇ B., KAN M., ALKHALIDI M. M. H.
International Conference on Technology and Science, Antalya, Turkey, 13 - 15 December 2018, pp.189-194
- II. **Modelling of the Hydrodynamic Flow and Erosion for the 4 Different Circulating Fluidised Bed Boiler Designs by Computational Particle Fluid Dynamics**
GÜREL B., İPEK O., KAN M.
INTERNATIONAL CONFERENCE ON INNOVATIVE ENGINEERING APPLICATIONS, Sivas, Turkey, 20 - 22 September 2018
- III. **Analytical Solving of Natural Water Circulation System and Numerical Modeling of Two Phase Flow in the Raisers**
GÜREL B., İPEK O., KAN M.
INTERNATIONAL CONFERENCE ON INNOVATIVE ENGINEERING APPLICATIONS, Sivas, Turkey, 20 - 22 September 2018

- IV. **NUMERICAL INVESTIGATION OF REACHING REGIME TEMPERATURE AND SOLIDIFICATION PROCESS IN A GRAVITY DIE CASTING MOLD WITH CONFORMAL COOLING CHANNEL**
BOLATTÜRK A., İPEK O., KURTULUŞ K., KAN M.
INTERNATIONAL VOCATIONAL SCIENCE SYMPOSIUM, 26 - 29 April 2018, pp.259
- V. **Numerical and Experimental Comparison of Thermal Behaviors and Performances of The Monoblock Heat Exchanger Produced By Laser Sintering Method and Brazed Plate Heat Exchanger**
İPEK O., KAN M., GÜREL B.
First International Conference on Energy Systems Engineering (ICESE'17), 2 - 04 November 2017
- VII. **INVESTIGATION OF THE EMISSIONS BEHAVIOR OF A 330 MW TH CIRCULATING FLUIDIZED BED RISER BURNING DIFFERENT LIGNITES**
İPEK O., GÜREL B., KAN M.
First International Conference on Energy Systems Engineering (ICESE'17), 2 - 04 November 2017
- VII. **HYDRODYNAMIC-COMBUSTION BEHAVIOR OF A 330 MW TH CIRCULATING FLUIDIZED BED RISER BURNING DIFFERENT LIGNITES**
İPEK O., GÜREL B., KAN M.
First International Conference on Energy Systems Engineering (ICESE'17), 2 - 04 November 2017
- VIII. **Investigation of Numerical Simulation of Solidification and Thermal Behavior of Metal Molds with Original Cooling Channels**
İPEK O., BOLATTÜRK A., KAN M., KURTULUŞ K.
4th INTERNATIONAL CONFERENCE ON COMPUTATIONAL AND EXPERIMENTAL SCIENCE AND ENGINEERING (ICCESEN-2017), 4 - 08 October 2017
- IX. **Electrical Energy Production from the Waste Heat Released the Gas Turbine Bearings Cooled with Oil using the Organic Rankine Cycle**
MOHAMMEDSALİH M. M. , İPEK O., KAN M.
6th International Conference on Engineering, Science, Technology and Industrial Applications (ESTIA-2017), 8 - 10 September 2017
- X. **Steady State Numerical Simulation of Mold Conformal Cooling Channels and Investigation of Exergy Destruction**
BOLATTÜRK A., İPEK O., KURTULUŞ K., KAN M.
4th INTERNATIONAL CONFERENCE ON COMPUTATIONAL AND EXPERIMENTAL SCIENCE AND ENGINEERING (ICCESEN-2017), 4 - 08 October 2017
- XI. **Metal Bir Kalıpta Klasik Soğutma Kanalı ile Özgün Soğutma Kanalı Arasındaki Katılma Proseslerinin ve Termal Davranışlarının Nümerik Yöntemle Karşılaştırılması**
BOLATTÜRK A., İPEK O., KURTULUŞ K., KAN M., KORU M.
21. Ulusal Isı Bilimi ve Tekniği Kongresi, Çorum, Turkey, 13 - 16 September 2017, pp.1252-1264
- XII. **Numerical Approach on Hydrodynamic Combustion and NOX Emission Behavior in 8 MWth Circulating Fluidized Bed**
İPEK O., GÜREL B., KAN M.
3rd International Conference On Computational And Experimental Science And Engineering, 19 - 24 October 2016
- XIII. **Examination of Different Heat Exchangers Thermal Activities which Have Different Designs**
İPEK O., KAN M., GÜREL B.
3rd International Conference On Computational And Experimental Science And Engineering, 19 - 24 October 2016
- XIV. **Numerical Investigation on Hydrodynamic Behaviour in 8 MWth Circulating Fluidized Bed**
İPEK O., GÜREL B., KAN M.
II. INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES, 24 - 28 May 2016
- XV. **Investigation of Heat Transfer Performance for Different Mass Flow Rate in Compact Plate Heat Exchanger**
İPEK O., KAN M., GÜREL B.
II. INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES, 24 - 28 May 2016
- XVI. **Air Preheater Design And Optimization**
İPEK O., GÜREL B., KAN M.

II. INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES, 24 - 28 May 2016

XVII. **Numerical Analysis on Oxy Fuel Combustion for Different Mixture Rate**

İPEK O., KAN M., GÜREL B.

International Conference On Engineering And Natural Science, 15 - 19 May 2015, pp.520-527

Citations

Total Citations (WOS):24

h-index (WOS):3