

Prof. İLKER TARI

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: D-1404-2010

ScopusID: 35204094300

Yoksis Researcher ID: 40566

Education Information

Doctorate, Northeastern University, Mechanical Engineering, United States Of America 1994 - 1998

Postgraduate, Massachusetts Institute of Technology, Nuclear Engineering, United States Of America 1991 - 1994

Postgraduate, Massachusetts Institute of Technology, Engineering, United States Of America 1991 - 1994

Undergraduate, Hacettepe University, Mühendislik Fakültesi, Nükleer Enerji Mühendisliği Bölümü, Turkey 1983 - 1987

Research Areas

Mechanical Engineering, Energy, Energy storage technologies, Solar energy, Engineering and Technology

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Mechanical Engineering, 2017 - Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Mechanical Engineering, 2013 - 2017

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Mechanical Engineering, 1999 - 2013

Lecturer PhD, Middle East Technical University, Faculty of Engineering, Department of Mechanical Engineering, 1998 - 1999

Lecturer PhD, University of California, Riverside, Engineering, Mechanical Engineering, 1997 - 1998

Advising Theses

TARI İ., Fresnel lens solar collector development considering local conditions, Postgraduate, D.DEĞİRMENCİ(Student), 2022

TARI İ., Radiative heat transfer modeling of cavities with inhomogeneous participating media using monte carlo ray tracing method, Postgraduate, S.DİNCER(Student), 2022

Tari İ., Baker D. K., ADVANCES IN MODELING HIGH TEMPERATURE PARTICLE FLOWS IN THE FIELD OF CONCENTRATING SOLAR POWER, Doctorate, E.JOHNSON(Student), 2021

TARI İ., Detailed simulations of parabolic trough collector for investigating enhancement of heat transfer to absorber

tube flow, Postgraduate, S.UYGUR(Student), 2021

TARI İ., Sustainable carbon constrained energy generation perspectives, Doctorate, N.ÇUBUKÇU(Student), 2021

TARI İ., Simulation of solar thermal application in a cement plant, Postgraduate, S.Salehian(Student), 2020

TARI İ., Performance evaluation of linear tube solar receiver as stratified flow vapor generator/separator for absorption machines using $\text{nh}_3/\text{lino}_3$, Doctorate, S.Berat(Student), 2020

TARI İ., Thermal management of electronics cabinet and effects of different front cover patterns, Postgraduate, Y.Çobanoğlu(Student), 2019

TARI İ., Experimental investigation of fluidized bed to be used as solar thermal energy storage, Postgraduate, E.Polat(Student), 2019

TARI İ., Effects of microchannel manufacturing inaccuracies on heat sink performance: Numerical and experimental investigation, Postgraduate, C.ÖZTOPRAK(Student), 2018

TARI İ., Mechanical strength of 3D printed objects: Experimental and numerical investigation, Postgraduate, G.BAŞARA(Student), 2017

TARI İ., Numerical investigation of bubbling fluidized bed to be used as high temperature thermal energy storage, Postgraduate, S.HİÇDURMAZ(Student), 2017

TARI İ., Numerical modeling and analyses of anisotropic diffusion and stresses in polymer electrolyte fuel cell, Doctorate, M.MEHRTASH(Student), 2017

BAKER D. K., TARI İ., Conceptual design and heat transfer investigation of a dense granular flow solar receiver, Postgraduate, E.FAİR(Student), 2017

TARI İ., Improving flow structure and natural convection within fin spacings of plate fin heat sinks, Postgraduate, M.ERDEM(Student), 2015

TARI İ., Heat dissipation from electronic packages on rotary platforms with the help of heat pipe networks, Postgraduate, A.ÇALIŞKAN(Student), 2015

TARI İ., PEM fuel cell degradation: Numerical investigation and effects on the performance of solar-hydrogen based renewable energy systems, Doctorate, E.ÖZDEN(Student), 2015

TARI İ., Numerical investigation of circulating fluidized bed riser hydrodynamics for concentrating solar thermal receiver applications, Postgraduate, S.BİLYAZ(Student), 2015

BAKER D. K., TARI İ., Numerical comparison and sizing of sensible and latent thermal energy storage for compressed air energy storage, Postgraduate, M.KAYA(Student), 2015

TARI İ., Development of a methodology for sizing and assessment of wind integrated advanced adiabatic compressed air energy storage system (AA-CAES), Postgraduate, K.TAŞTANKAYA(Student), 2014

TARI İ., Thermal management of solid oxide fuel cells by flow arrangement, Postgraduate, F.ŞEN(Student), 2012

TARI İ., Experimental investigation of phase change materials used in prototype military shelters, Postgraduate, Z.ERKAL(Student), 2011

TARI İ., Numerical investigation of natural convection from inclined plate finned heat sinks, Postgraduate, M.MEHRTASH(Student), 2011

TARI İ., Thermal analysis of stirling cycle regenerators, Postgraduate, S.ÖZBAY(Student), 2011

TARI İ., CORRELATION BASED THERMAL DESIGN OF AIR TRANSPORT RACK CHASSIS, Postgraduate, B.ONUR(Student), 2011

TARI İ., YENİ GELİŞTİRİLEN YÖNELİM BELİRLEME KONTROL ÜNİTESİNİN VAKUM ORTAMINDAKİ ISIL DAVRANIŞININ SAYISAL VE DENEYSEL İNCELENMESİ, Postgraduate, C.ÖMÜR(Student), 2010

TARI İ., Solar-hydrogen stand-alone power system design and simulations, Postgraduate, A.ULUOĞLU(Student), 2010

TARI İ., A NUMARICAL AND EXPERIMENTAL INVEIGATION OF THERMAL BEHAVIOR OF A NEWLY DEVELOPED ATTITUDE DETERMINATION CONROL UNIT IN A VACUUM ENVIRONMENT, Postgraduate, C.ÖMÜR(Student), 2010

TARI İ., Numerical investigation of natural convection from vertical plate finned heat sinks, Postgraduate, K.MERT(Student), 2009

TARI İ., Simulation of refrigerated space with radiation, Doctorate, Ö.BAYER(Student), 2009

TARI İ., SERT C., CFD analysis of a notebook computer thermal management solution, Postgraduate, F.SEZA(Student), 2008

TARI İ., Numerical investigation on cooling of small form factor computer cases, Postgraduate, Ö.EMRE(Student), 2007

TARI İ., Detailed design of shell-and-tube heat exchangers using CFD, Postgraduate, E.ÖZDEN(Student), 2007

TARI İ., Performance analysis of an intermediate temperature solid oxide fuel cell, Postgraduate, B.Timurkutluk(Student), 2007

TARI İ., Performance analysis of an intermediate temperature solid oxide fuel cell, Postgraduate, B.TİMURKUTLUK(Student), 2007

TARI İ., A comparative investigation of heat transfer capacity limits of heat pipes, Postgraduate, S.KÜÇÜK(Student), 2007

TARI İ., Development of a racing strategy for a solar car, Postgraduate, E.ERSÖZ(Student), 2006

TARI İ., SERT C., Spectral (h-p) element methods approach to the solution of poisson and helmholtz equations using matlab, Postgraduate, T.MARAL(Student), 2006

TARI İ., A pseudospectral analysis of laminar natural convection flow and heat transfer between two inclined parallel plates, Postgraduate, S.KASAPOĞLU(Student), 2005

TARI İ., A pseudospectral analysis of laminar natural convection and heat transfer between two inclined parallel plates, Postgraduate, S.Kasapoğlu(Student), 2005

TARI İ., Direct numerical simulation of liquid flow in a horizontal microchannel, Postgraduate, C.EVREN(Student), 2005

TARI İ., CFD analyses of heat sinks for CPU cooling, Postgraduate, E.Öztürk(Student), 2004

TARI İ., CFD analyses of heat sinks for CPU cooling with fluent, Postgraduate, E.ÖZTÜRK(Student), 2004

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Solar-powered hybrid energy storage system with phase change materials**
Baghaei Oskouei S., Frate G. F., Christodoulaki R., BAYER Ö., Akmandor İ. S., Desideri U., Ferrari L., Drosou V., TARI İ.
ENERGY CONVERSION AND MANAGEMENT, vol.302, 2024 (SCI-Expanded)
- II. **Solar Hybridization Paths for Cement Production Processes**
Polat O., TARI İ.
Heat Transfer Engineering, vol.45, no.2, pp.165-175, 2024 (SCI-Expanded)
- III. **Parametric Sensitivity Analysis and Performance Evaluation of High-Temperature Macro-Encapsulated Packed-Bed Latent Heat Storage System Operating with Transient Inlet Boundary Conditions**
Mehrtash M., Tari I.
Processes, vol.10, no.7, pp.1-20, 2022 (SCI-Expanded)
- IV. **A Combined Experimental and Numerical Thermo-Hydrodynamic Investigation of High-Temperature Fluidized-Bed Thermal Energy Storage**
Mehrtash M., Polat Karadiken E., TARI İ.
Processes, vol.10, no.6, 2022 (SCI-Expanded)
- V. **Buildings sector from a sustainable carbon constrained energy generation perspective**
Cubukcu (Cubukcu) N., Tari I.
ENERGY AND BUILDINGS, vol.259, 2022 (SCI-Expanded)
- VI. **Investigation of olive mill sludge treatment using a parabolic trough solar collector**
Ben Othman F., Eddhibi F., Bel Hadj Ali A., Fadhel A., BAYER Ö., TARI İ., Guizani A., Balghouthi M.
Solar Energy, vol.232, pp.344-361, 2022 (SCI-Expanded)
- VII. **Modeling heat exchangers with an open source DEM-based code for granular flows**
Johnson E. F., TARI İ., BAKER D. K.
SOLAR ENERGY, vol.228, pp.374-386, 2021 (SCI-Expanded)
- VIII. **Radiative heat transfer in the discrete element method using distance based approximations**
Johnson E. F., TARI İ., BAKER D. K.
POWDER TECHNOLOGY, vol.380, pp.164-182, 2021 (SCI-Expanded)
- IX. **A Monte Carlo method to solve for radiative effective thermal conductivity for particle beds of various solid fractions and emissivities**
Johnson E., Tari İ., Baker D.
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, vol.250, 2020 (SCI-Expanded)
- X. **Numerical modeling of visco-elasto-plastic hygro-thermal stresses and the effects of operating**

conditions on the mechanical degradation of PEFC membranes

Mehrtash M., TARI İ., YEŞİLYURT S.

JOURNAL OF POWER SOURCES, vol.396, pp.164-174, 2018 (SCI-Expanded)

- XI. **Numerical Analysis of Phase Change Material Characteristics Used in a Thermal Energy Storage Device**
Bonyadi N., Somek S. K., Ozalevli C. C., Baker D., TARI İ.
HEAT TRANSFER ENGINEERING, vol.39, no.3, pp.268-276, 2018 (SCI-Expanded)
- XII. **Impacts of inhomogeneous clamping force on local performance and liquid water formation in polymer electrolyte fuel cells**
MEHRTASH M., Tani I., Yesilyurt S.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.30, pp.19227-19245, 2017 (SCI-Expanded)
- XIII. **PEM fuel cell degradation effects on the performance of a stand-alone solar energy system**
ÖZDEN E., TARI İ.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.18, pp.13217-13225, 2017 (SCI-Expanded)
- XIV. **Energy-exergy and economic analyses of a hybrid solar-hydrogen renewable energy system in Ankara, Turkey**
ÖZDEN E., TARI İ.
APPLIED THERMAL ENGINEERING, vol.99, pp.169-178, 2016 (SCI-Expanded)
- XV. **Proton exchange membrane fuel cell degradation: A parametric analysis using Computational Fluid Dynamics**
ÖZDEN E., TARI İ.
JOURNAL OF POWER SOURCES, vol.304, pp.64-73, 2016 (SCI-Expanded)
- XVI. **Natural convection heat transfer from horizontal and slightly inclined plate-fin heat sinks**
TARI İ., MEHRTASH M.
APPLIED THERMAL ENGINEERING, vol.61, no.2, pp.728-736, 2013 (SCI-Expanded)
- XVII. **A correlation for natural convection heat transfer from inclined plate-finned heat sinks**
MEHRTASH M., TARI İ.
APPLIED THERMAL ENGINEERING, vol.51, pp.1067-1075, 2013 (SCI-Expanded)
- XVIII. **Natural convection heat transfer from inclined plate-fin heat sinks**
TARI İ., MEHRTASH M.
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.56, pp.574-593, 2013 (SCI-Expanded)
- XIX. **CFD Analyses of a Notebook Computer Thermal Management System and a Proposed Passive Cooling Alternative**
TARI İ., YALCIN F. S.
IEEE TRANSACTIONS ON COMPONENTS AND PACKAGING TECHNOLOGIES, vol.33, no.2, pp.443-452, 2010 (SCI-Expanded)
- XX. **Shell side CFD analysis of a small shell-and-tube heat exchanger**
ÖZDEN E., TARI İ.
ENERGY CONVERSION AND MANAGEMENT, vol.51, no.5, pp.1004-1014, 2010 (SCI-Expanded)
- XXI. **Natural convection simulations and numerical determination of critical tilt angles for a parallel plate channel**
Tari I.
ENERGY CONVERSION AND MANAGEMENT, vol.51, no.4, pp.685-695, 2010 (SCI-Expanded)
- XXII. **Passive Cooling Assembly for Flat Panel Displays with Integrated High Power Components**
Tari I.
IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, vol.55, no.3, pp.1707-1713, 2009 (SCI-Expanded)
- XXIII. **Numerical Investigation on Cooling of Small form Factor Computer Cases**
ORHAN O. E., TARI İ.
Engineering Applications Of Computational Fluid Mechanics, vol.2, pp.427-435, 2008 (SCI-Expanded)
- XXIV. **Forced air cooling of CPUs with heat sinks: A numerical study**
Ozturk E., TARI İ.

IEEE TRANSACTIONS ON COMPONENTS AND PACKAGING TECHNOLOGIES, vol.31, no.3, pp.650-660, 2008 (SCI-Expanded)

XXV. CFD MODELING OF FORCED COOLING OF COMPUTER CHASSIS

OZTURK E., TARI İ.

ENGINEERING APPLICATIONS OF COMPUTATIONAL FLUID MECHANICS, vol.1, no.4, pp.304-313, 2007 (SCI-Expanded)

XXVI. Galerkin method in radiative transfer

YENER Y., TARI İ.

International Journal Of Engineering Science, vol.36, pp.1535-1550, 1998 (SCI-Expanded)

Articles Published in Other Journals

I. NUMERICAL INVESTIGATION OF BUBBLING FLUIDIZED BED TO BE USED AS THERMAL ENERGY STORAGE INTEGRATED TO HIGH-TEMPERATURE CONCENTRATED SOLAR POWER

HİÇDURMAZ S., TARI İ.

Multiphase Science and Technology, vol.30, pp.99-120, 2018 (Scopus)

Books & Book Chapters

I. Energy and Exergy Analyses of a Solar-Hydrogen Based Energy System for the Emergency Room of a Hospital in Ankara, Turkey Authors

Özden E., Tari İ.

in: Exergy for A Better Environment and Improved Sustainability 1, Fethi Aloui, Ibrahim Dincer, Editor, Springer, London/Berlin, Chur, pp.779-794, 2018

Refereed Congress / Symposium Publications in Proceedings

I. MACHINE LEARNING BASED SPECTRAL MODEL FOR PARTICIPATING MEDIUM FOR MONTE CARLO METHOD

Dincer S., TARI İ., Ertürk H.

9th International Symposium on Advances in Computational Heat Transfer, CHT 2024, İstanbul, Turkey, 26 - 30 May 2024, vol.2024, pp.123-127

II. _The Investigation of Mechanical and Thermal Properties of Sintered Bauxite and Sand Particles as Heat Transfer and Storage Media

Uygun Z., TARI İ., BAKER D. K.

27th International Conference on Concentrating Solar Power and Chemical Energy Systems: Solar Power and Chemical Energy Systems, SolarPACES 2021, Virtual, Online, 27 September - 01 October 2021, vol.2815

III. CHT Modeling of an Electronics Cabinet Using Multi-scale Meshing

TARI İ., ÇOBANOĞLU Y.

CHT-21 8th International Symposium on Advances in Computational Heat Transfer, Rio de Janeiro, Brazil, 15 - 19 August 2021

IV. Solar Hybridization Paths for Cement Production Processes

TARI İ., Polat O.

CHT-21 8th International Symposium on Advances in Computational Heat Transfer, Rio de Janeiro, Brazil, 15 - 19 August 2021

V. NOVEL SOLAR DRYER FOR OLIVE MILL WASTEWATER

TARI İ., Erdoğan S.

5-6th Thermal and Fluids Engineering Conference (TFEC), New Orleans, United States Of America, 26 - 28 May

2021, pp.1277-1291

- VI. **Potential of Concentrated Solar Thermal Energy for Industrial Applications**
TARI İ.
The International Aluminium-Themed Engineering and Natural Sciences Conference, Seydisehir, Turkey, 4 - 06 October 2019
- VII. **Modeling of Alumina Production for Identification of Solar Hybridization Paths**
Abu Zanouneh B, TARI İ.
The International Aluminium-Themed Engineering and Natural Sciences Conference, Seydisehir, Turkey, 4 - 06 October 2019
- VIII. **Development of View Factor Correlations for Modeling Thermal Radiation in Solid Particle Solar Receivers Using CFD-DEM**
johnson e., BAKER D. K., TARI İ.
SolarPACES2018: Solar Power and Chemical Energy Systems, Morocco, Morocco, 2 - 05 October 2018
- IX. **Experimental Spray Cooling Studies with FC-72 and FC-84 to Comprehend the Validity of Volumetric Flux Model (VFM)**
BALIKCI Ç., TARI İ.
THERMINIC2017 23rd International Workshop on Thermal Investigations of ICs and Systems, Amsterdam, Netherlands, 27 - 29 September 2017
- X. **Numerical Investigation of Thermal Storage Performance of a Fluidized Sand Bed**
HIÇDURMAZ S., TARI İ.
CHT-17 7th International Symposium on Advances in Computational Heat Transfer, Napoli, Italy, 28 May - 02 June 2017
- XI. **Micro-channel Cold Plate Dimensional Precision Effects on Performance**
ÖZTOPRAK C., TARI İ.
ASTFE 2nd Thermal and Fluids Engineering Conference, Las Vegas, United States Of America, 2 - 05 April 2017
- XII. **Numerical Investigation of Various Approaches to Avoid Natural Convection Instabilities Inside the Channels of Horizontal Plate Fin Heat Sinks**
TARI İ., ÖZET M. E.
ASME 2016 International Mechanical Engineering Congress and Exposition, Phoenix, United States Of America, 11 - 17 November 2016
- XIII. **Thermal Analysis of Solar Energy Assisted Cement Production**
TARI İ.
ASME International Mechanical Engineering Conference and Exhibition, Phoenix, United States Of America, 11 - 17 November 2016
- XIV. **Hydrodynamic ve Thermal Modelling of Circulating Fluidized Bed Solar Receivers**
BİLYAZ S., TARI İ.
ASME 2016 International Mechanical Engineering Congress and Exposition, Phoenix, United States Of America, 11 - 17 November 2016
- XV. **HYDRODYNAMIC AND THERMAL MODELING OF CIRCULATING FLUIDIZED BED SOLAR RECEIVERS**
Bilyaz S., TARI İ.
ASME International Mechanical Engineering Congress and Exposition (IMECE2016), Arizona, United States Of America, 11 - 17 November 2016
- XVI. **Stress Distribution Based Partitioning of Helmets for 3 D Printing**
BAŞARA G., TARI İ., TARI Z. S.
ASME International Mechanical Engineering Conference and Exhibition, Phoenix, United States Of America, 11 - 17 November 2016
- XVII. **NUMERICAL COMPARISON AND SIZING OF SENSIBLE AND LATENT THERMAL ENERGY STORAGE FOR COMPRESSED AIR ENERGY STORAGE SYSTEMS**
Kaya M., TARI İ., BAKER D. K.
ASME International Mechanical Engineering Congress and Exposition (IMECE2016), Arizona, United States Of America, 11 - 17 November 2016

- XVIII. **Numerical Comparison and Sizing Of Sensible ve Latent Thermal Energy Storage For Compressed Air Energy Storage**
KAYA M., TARI İ., BAKER D. K.
ASME 2016 International Mechanical Engineering Congress and Exposition, Phoenix, United States Of America, 11 - 17 November 2016
- XIX. **Proposal of a Novel Gravity-Fed, Particle-Filled Solar Receiver**
JOHNSON E., Baker D., TARI İ.
22nd International Conference on Concentrating Solar Power and Chemical Energy Systems (SOLARPACES), Abu Dhabi, United Arab Emirates, 11 - 14 October 2016, vol.1850
- XX. **Proposal and modeling of a novel gravity fed filled absorber solid particle solar receiver**
JOHNSON E., BAKER D. K., TARI İ.
SolarPACES 2016 Solar Power and Chemical Energy Systems, Abu Dhabi, United Arab Emirates, 11 - 14 October 2016
- XXI. **Numerical investigation of forced convection thermal management of high power electronics on a rotary platform**
ANIL C., TARI İ.
1st Thermal and Fluid Engineering Summer Conference, TFESC, New-York, United States Of America, 9 - 12 August 2015
- XXII. **Experimental analysis of energy storage device using phase change material integrated with a milk storage system**
NIMA B., SOMEK S. K., C CIHAN O., BAKER D. K., TARI İ.
1st Thermal and Fluid Engineering Summer Conference, TFESC, New-York, United States Of America, 9 - 12 August 2015
- XXIII. **Numerical investigation of a stand alone solar hydrogen energy system effects of PEFC degradation**
ENDER O., TARI İ.
1st Thermal and Fluid Engineering Summer Conference, TFESC, New-York, United States Of America, 9 - 12 August 2015
- XXIV. **Numerical Investigation of thermal management of Solid Oxide Fuel Cells by flow arrangement**
ŞEN F., TARI İ.
CHT-15 ICHMT International Symposium on Advances in Computational Heat Transfer, Rutgers University, United States Of America, 25 - 29 May 2015
- XXV. **Investigation of various options for numerical modeling of fluidized bedsI for a solar thermal application**
BİLYAZ S., TARI İ.
CHT-15 ICHMT International Symposium on Advances in Computational Heat Transfer, Rutgers University, United States Of America, 25 - 29 May 2015
- XXVI. **Numerical Analysis of Phase Change Material Characteristics in a Thermal Energy Storage Heat Exchanger**
NIMA B., SOMEK S. K., OZALEVLI C. C., BAKER D. K., TARI İ.
ASME-ATI-UIT 2015 Conference on Thermal Energy Systems: Production, Storage, Utilization and the Environment, Napoli, Italy, 17 - 20 May 2015
- XXVII. **Numerical analysis of phase change material characteristics used in a thermal energy storage device**
Bonyadi N., kazım s., Özalevli c., BAKER D. K., TARI İ.
ASME-ATI-UIT 2015 Conference on Thermal Energy Systems: Production, Storage, Utilization and the Environment, 17 May - 20 August 2015
- XXVIII. **Energy and exergy analysis of a solar hydrogen hybrid renewable energy system in Ankara Turkey**
ÖZDEN E., TARI İ.
7th International Exergy, Energy and Environment Symposium, Valenciennes, France, 27 - 30 April 2015
- XXIX. **System modeling of a solar hydrogen hybrid renewable energy system in Ankara**
ÖZDEN E., TARI İ.
SolarTR, 19 - 21 November 2014

- XXX. **Two Way Coupling of Lagrangian and Eulerian Governing Equations for Particles in Incompressible Fluids**
TARI İ., TARI Z. S.
SIAM Annual Meeting CP23, San Diego, United States Of America, 8 - 12 July 2013
- XXXI. **A passive cooling system proposal for multifunction and high power displays**
TARI İ.
SPIE Proceedings of Advances in Display Technologies III, San-Francisco, United States Of America, 2 - 07 February 2013
- XXXII. **Multiphysics Simulations of PEM Electrolyzers**
TARI İ., ÖZDEN E.
NAFEMS European Conf. Multiphysics Simulation 2012, Frankfurt, Germany, 16 - 17 October 2012
- XXXIII. **DİKEY VE EĞİMLİ YÜZEYLERE YERLEŞTİRİLMİŞ DİKDÖRTGEN KESİTLİ KANATÇIKLI ISI ATICILARIN DOĞAL TAŞINIM İÇİN SAYISAL İNCELENMESİ**
TARI İ., MEHRTASH M.
Ulusal Isı Bilimi ve Tekniği Kongresi, Zonguldak, Turkey, 7 - 10 September 2011
- XXXIV. **Numerical and experimental investigation of the thermal behavior of a newly developed attitude Determination Control Unit in a Vacuum environment**
ÖMÜR C., UYGUR A. B., IŞIK H. G., TARI İ.
Proceedings of the 2011 5th International Conference on Recent Advances in Space Technologies, 9 - 11 June 2011
- XXXV. **Components of the Shape Revisited**
TARI Z. S., BURGETH B., TARI İ.
2010 AAAI Spring Symposium Series, Palo Alto, United States Of America, 22 - 24 March 2010
- XXXVI. **Modified Laplacians for shape analysis**
TARI Z. S., BURGETH B., TARI İ.
International Symposium on Mathematical Morphology, Groningen, Netherlands, 24 - 27 August 2009
- XXXVII. **CFD Modeling and Analysis of a Small Shell and tube Heat Exchanger**
ÖZDEN E., TARI İ.
ASME 2008 Summer Heat transfer Conference, Jacksonville, United States Of America, 10 - 14 August 2008
- XXXVIII. **CFD ANALYSIS OF A NOTEBOOK COMPUTER THERMAL MANAGEMENT SOLUTION**
YALCIN F. S., SERT C., TARI İ.
ASME Heat Transfer Summer Conference, Florida, United States Of America, 10 - 14 August 2008, pp.805-811
- XXXIX. **CFD MODELING AND ANALYSIS OF A SHELL-AND-TUBE HEAT EXCHANGER**
Ozden E., TARI İ.
ASME Heat Transfer Summer Conference, Florida, United States Of America, 10 - 14 August 2008, pp.75-76
- XL. **A Comparison of the Common Semi Implicit Time Stepping Schemes in a Spectral Method Navier Stokes Solver ABCN ABBDI2 MABCN and Leap Frog**
TARI İ.
SIAM Annual Meeting 2008, San Diego, United States Of America, 7 - 11 July 2008
- XLI. **A Numerical Investigation of Interactions of Particles with Benard Cells in Horizontal Channels**
TARI İ., TANGBORN A., YENER Y.
ICHMT Computational Heat Transfer, Morocco, 11 - 16 May 2008
- XLII. **A Comparison of Common Semi Implicit Time Stepping Schemes in a Pseudo spectral Navier Stokes Solver**
TARI İ.
ASME International Mechanical Engineering Conference and Exhibition, Seattle, United States Of America, 11 - 15 November 2007
- XLIII. **Numerical Investigation of Laminar Microchannel Convective Liquid Flow as a Mixing Enhancer in Microfluidic Devices**
TARI İ.
ASME International Mechanical Engineering Conference and Exhibition, Seattle, United States Of America, 11 - 15 November 2007

- XLIV. Numerical Determination of Critical Tilt Angle for a Parallel Plate Channel**
TARI İ.
ASME International Mechanical Engineering Conference and Exhibition, Seattle, United States Of America, 11 - 15 November 2007
- XLV. Numerical Investigation on Cooling of Small Form Factor Computer Cases**
Orhan Ö. E., TARI İ.
ASME International Mechanical Engineering Conference and Exhibition, Seattle, United States Of America, 11 - 15 November 2007
- XLVI. A Road Map For CFD Modelling Of Forced Cooled Packages**
OZTURK E., TARI İ.
ASME International Mechanical Engineering Conference and Exhibition, Chicago, United States Of America, 5 - 10 November 2006
- XLVII. Senior year thermal design course elective or mandatory restricted elective**
TARI İ., TARI Z. S.
ASME International Mechanical Engineering Conference and Exhibition, Chicago, United States Of America, 5 - 10 November 2006
- XLVIII. A Pseudospectral Analysis of Laminar Natural Convection Flow and Heat Transfer Between Two Inclined Parallel Plates**
TARI İ., KASAPOĞLU S.
ASME International Mechanical Engineering Conference and Exhibition, Chicago, United States Of America, 5 - 10 November 2006
- XLIX. A Comparison of AB BD12 and AB CN Time Stepping Schemes in a Chebychev Tau Spectral Navier Stokes Solver**
TARI İ., KASAPOĞLU S.
SIAM Conference on Analysis of Partial Differential Equations, Boston, United States Of America, 10 - 12 July 2006
- L. CFD Analyses of Heat Sinks for CPU Cooling with Fluent**
TARI İ., OZTURK E.
ASME Summer Heat Transfer Conference, San-Francisco, United States Of America, 17 - 21 July 2005
- LI. Direct Numerical Simulation of Liquid Flow in a Horizontal Microchannel**
TARI İ., KÜKRER C. E.
ASME Summer Heat Transfer Conference, San-Francisco, United States Of America, 17 - 21 July 2005
- LII. Determination of Assembly Averaged Homogeneous Neutron Cross Sections for MITR II**
TARI İ.
4th Int. Conference on Monte Carlo and Quasi-Monte Carlo Methods in Scientific Computing, Hong Kong, 27 November - 01 December 2000
- LIII. 3 D Simulation of Convection in Asymmetrically Heated Turbine Blade Cooling Channels**
TARI İ.
International Symposium on Heat Transfer in Gas Turbine Systems, 13 - 18 August 2000
- LIV. Simulation of Bubble Motion in Benard Cells by Spectral Methods**
TARI İ., TANGBORN A., YENER Y.
CHT97 Advances in Computational Heat Transfer, 26 - 30 May 1997

Supported Projects

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TARI İ., Project Supported by Higher Education Institutions, Katı tanecikli akışkan yataklı yoğunlaştırılmış güneş enerjisi sistemlerinin sayısal incelenmesi, 2015 - 2016

TARI İ., Industrial Thesis Project, Isı borusu ađ ları yardımıyla do ner tablalar u zerindeki elektronik paketlerden ısı atımı, 2013 - 2016

Memberships / Tasks in Scientific Organizations

International Centre for Heat and Mass Transfer, Secretary General, 2019 - Continues

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Webb B., Lemonnier D., Tari İ., The 9th International Symposium on Radiative Transfer, RAD-19, Scientific Congress, Athens, Greece, Haziran 2019

Metrics

Publication: 83

Citation (WoS): 541

Citation (Scopus): 444

H-Index (WoS): 12

H-Index (Scopus): 11

Non Academic Experience

METU

METU

University of California

Northeastern University

Hacettepe University