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Personal Information

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Publons / Web Of Science ResearcherID: ABB-5217-2020

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Yoksis Researcher ID: 183147

Education Information

Doctorate, Northeastern University, Graduate School of Engineering, Mechanical Engineering, United States Of America
2000 - 2005

Postgraduate, Middle East Technical University, Faculty Of Engineering, Department Of Mechanical Engineering, Turkey
1997 - 1999

Undergraduate, Middle East Technical University, Faculty Of Engineering, Department Of Mechanical Engineering, Turkey
1993 - 1997

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Analytical and Experimental Study of Transient Radiative Transfer in Participating Media with Short-Pulse Laser Irradiation, Northeastern University, Graduate School of Engineering, Mechanical Engineering, 2005

Postgraduate, Construction of a Test Set-up and Experimental Evaluation of Refrigerator Condensers, Middle East Technical University, Faculty Of Engineering, Department Of Mechanical Engineering, 1999

Research Areas

Engineering and Technology

Academic Titles / Tasks

Professor, İstanbul Technical University, Enerji Enstitüsü, Yenilenebilir Enerji , 2020 - Continues

Professor, Middle East Technical University, Faculty Of Engineering, Department Of Mechanical Engineering, 2019 - 2020

Associate Professor, Middle East Technical University, Faculty Of Engineering, Department Of Mechanical Engineering, 2013 - 2019
Assistant Professor, Middle East Technical University, Faculty Of Engineering, Department Of Mechanical Engineering, 2007 - 2013
Lecturer PhD, Middle East Technical University, Faculty Of Engineering, Department Of Mechanical Engineering, 2006 - 2007
Research Assistant, Northeastern University, Graduate School of Engineering, Mechanical Engineering, 2000 - 2005
Research Assistant, Middle East Technical University, Faculty Of Engineering, Department Of Mechanical Engineering, 1997 - 2000

Academic and Administrative Experience

Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Middle East Technical University, Faculty Of Engineering, Department Of Mechanical Engineering, 2017 - 2020
Rectorate Commissioner, Middle East Technical University, Faculty Of Engineering, Department Of Mechanical Engineering, 2015 - 2020
Anabilim Dalı Akademik Kurul Üyesi, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Micro And Nanotechnology, 2007 - 2020
Fakülte Akademik Kurul Üyesi, Middle East Technical University, Faculty Of Engineering, Department Of Mechanical Engineering, 2006 - 2020
Ölçme Değerlendirme Kurulu Üyesi, Middle East Technical University, Faculty Of Engineering, Department Of Mechanical Engineering, 2008 - 2017

Courses

Bilimsel Araştırma, Etik ve Seminer, Postgraduate, 2020 - 2021
Thermal Engineering, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2012 - 2013, 2011 - 2012, 2009 - 2010, 2007 - 2008
Advanced Heat and Mass Transfer, Postgraduate, 2020 - 2021
Advanced Heat Transfer II - Convection, Doctorate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2013 - 2014
Heat Transfer, Undergraduate, 2019 - 2020, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2006 - 2007
ME 552, Doctorate, 2016 - 2017, 2013 - 2014, 2012 - 2013, 2010 - 2011, 2008 - 2009, 2007 - 2008, 2006 - 2007
Analytical Methods in Engineering I, Postgraduate, 2015 - 2016, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006
Mechanical Engineering Systems Laboratory, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007
Advanced Heat Transfer I - Conduction, Doctorate, 2013 - 2014
Thermodynamics of Heat Power, Undergraduate, 2007 - 2008

Advising Theses

Okutucu Özyurt H. T., Design and simulation of a vapor compression refrigeration cycle for a micro refrigerator, Postgraduate, S.Yıldız(Student), Continues
Baker D. K., Okutucu Özyurt H. T., Investigation of Nanostructured Surfaces for Thermal Applications, Postgraduate, E.ENİS(Student), Continues
Okutucu Özyurt H. T., Soğutma Sistemlerinde Faz Değiştiren Malzemelerle Enerji Depolama, Postgraduate,

E.YILDIZ(Student), Continues

Okutucu Özyurt H. T., Güneş Destekli Absorpsiyonlu Soğutma Çevrimlerinin Optimizasyonu, Postgraduate,

G.YILDIRIM(Student), Continues

Okutucu Özyurt H. T., Yenilenebilir enerji uygulamalarında faz değiştiren malzemeler ile ıslı enerji depolama,

Postgraduate, R.AYDIN(Student), Continues

Okutucu Özyurt H. T., Fotovoltaik sistemlerde soğutma, Postgraduate, Y.GÜNDÜZ(Student), Continues

Okutucu Özyurt H. T., Experimental Based Numerical Investigation of Microchannel Condenser Integrated Freezers,

Postgraduate, S.Dinçer(Student), 2019

Okutucu Özyurt H. T., Near Field Radiation Experiments, Doctorate, E.Begüm(Student), 2018

Okutucu Özyurt H. T., Optimizing Heat Exchanger Parameters of a Joule - Thomson Cryogenic Cooler to Increase the Cooling Efficiency, Doctorate, M.BAKI(Student), 2018

Okutucu Özyurt H. T., Design, Optimization and Testing of Micro-Evaporator and Micro-Condenser Components used in a Miniature Vapor Compression Refrigeration Cycle, Doctorate, G.TÜRKAKAR(Student), 2016

Okutucu Özyurt H. T., An Experimental and Numerical Investigation of Warpage Behavior of Silicon Substrates at Cryogenic Temperatures, Postgraduate, E.Can(Student), 2016

Okutucu Özyurt H. T., Experimental and Numerical Investigation of Surfactant Effects on the Thermal Conductivity of Carbon Nanotube Nanofluids, Postgraduate, E.DURSUNAYA(Student), 2016

Okutucu Özyurt H. T., Experimental Investigation of Nanofluid Behavior in Microchannel Heat Exchangers, Postgraduate, E.ŞİMŞEK(Student), 2016

Okutucu Özyurt H. T., Sert C., Numerical and Experimental Investigation on Laser Damage Resistance of Highly Reflective Multilayer Thin Films, Doctorate, M.OCAK(Student), 2016

Okutucu Özyurt H. T., Implementation of Metal-Based Microchannel Heat Exchangers in A Microrefrigeration Cycle, and Numerical and Experimental Investigation of Surface Roughness Effects on Flow Boiling, Doctorate, R.JAFARI(Student), 2015

Okutucu Özyurt H. T., Experimental Investigation of Refrigerator Condensers for Possible Design Improvements, Postgraduate, N.Yiğit(Student), 2014

Okutucu Özyurt H. T., Nanofabrication of Metallic Thin Film Layers using E-Beam Lithography for Energy Conversion Applications, Postgraduate, Z.ARTVİN(Student), 2012

Okutucu Özyurt H. T., Design and Analysis of Energy Saving Buildings Using The Software Energy Plus, Postgraduate, K.Özgen(Student), 2012

Okutucu Özyurt H. T., Experimental Investigation of Nanofluid Behavior in Microchannel Heat Sinks Using Terahertz Time Domain Spectroscopy, Postgraduate, C.KORAL(Student), 2012

Okutucu Özyurt H. T., Thermoelectric cooling of a pulsed mode 1064 nm diode pumped Nd: YAG laser, Postgraduate, Y.YÜKSEL(Student), 2010

Okutucu Özyurt H. T., Numerical simulation and analytical optimization of microchannel heat sinks, Postgraduate, G.TÜRKAKAR(Student), 2010

Okutucu Özyurt H. T., Design, fabrication, and experimental evaluation of microchannel heat sinks in CPU cooling, Postgraduate, A.KOYUNCUOĞLU(Student), 2010

Dursunkaya Z., Okutucu Özyurt H. T., Design and Construction of an Experimental Apparatus for the Interferometric Measurement of Micrometer Level Clearances, Postgraduate, M.YILDIRIM(Student), 2009

Okutucu Özyurt H. T., A Numerical Study on Dependent Absorption and Scattering by Interacting Nanosized Particles, Postgraduate, F.Nazlı(Student), 2009

Aybar H. Ş., Okutucu Özyurt H. T., Evaluation of Thermo-physical Properties of Nanofluids, Postgraduate, M.Reza(Student), 2009

Published journal articles indexed by SCI, SSCI, and AHCI

I. Optimization of Joule-Thomson cryocooler heat exchanger using one-dimensional numerical modeling

Baki M., Okutucu-Ozyurt T., SERT C.

- CRYOGENICS, vol.104, 2019 (SCI-Expanded)
- II. **Tunable near-field radiative transfer by III-V group compound semiconductors**
 Elcioglu E. B., Didari A., Okutucu Özyurt H. T., Menguc M. P.
 JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.52, no.10, 2019 (SCI-Expanded)
- III. **Near-field radiative transfer in spectrally tunable double-layer phonon-polaritonic metamaterials**
 Didari A., Elcioglu E. B., Okutucu-Ozyurt T., Menguc M. P.
 JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, vol.212, pp.120-127, 2018 (SCI-Expanded)
- IV. **Effects of optical design modifications on thermal performance of a highly reflective HfO₂/SiO₂/TiO₂ three material coating**
 Ocak M., SERT C., Okutucu-Ozyurt T.
 HEAT AND MASS TRANSFER, vol.54, no.2, pp.377-384, 2018 (SCI-Expanded)
- V. **Heat transfer enhancement by silver nanowire suspensions in microchannel heat sinks**
 Simsek E., Coskun S., Okutucu-Ozyurt T., ÜNALAN H. E.
 INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.123, pp.1-13, 2018 (SCI-Expanded)
- VI. **Modeling and analysis of surface roughness of microchannels produced by mu-WEDM using an ANN and Taguchi method**
 Jafari R., Kahya M., Oliaei S. N. B., Unver H. O., Okutucu Özyurt H. T.
 JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.31, no.11, pp.5447-5457, 2017 (SCI-Expanded)
- VII. **Experimental investigation of surface roughness effects on the flow boiling of R134a in microchannels**
 Jafari R., Okutucu-Ozyurt T., Unver H. O., BAYER Ö.
 EXPERIMENTAL THERMAL AND FLUID SCIENCE, vol.79, pp.222-230, 2016 (SCI-Expanded)
- VIII. **A numerical algorithm to determine straightness error, surface roughness, and waviness measured using a fiber optic interferometer**
 Yildirim M., Okutucu-Ozyurt T., DURSUNKAYA Z.
 OPTICS AND LASER TECHNOLOGY, vol.85, pp.19-29, 2016 (SCI-Expanded)
- IX. **Entropy generation analysis of a microchannel-condenser for use in a vapor compression refrigeration cycle**
 Turkakar G., Okutucu-Ozyurt T., Kandlikar S. G.
 INTERNATIONAL JOURNAL OF REFRIGERATION-REVUE INTERNATIONALE DU FROID, vol.70, pp.71-83, 2016 (SCI-Expanded)
- X. **Numerical simulation of flow boiling from an artificial cavity in a microchannel**
 Jafari R., Okutucu-Ozyurt T.
 INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.97, pp.270-278, 2016 (SCI-Expanded)
- XI. **3D numerical modeling of boiling in a microchannel by arbitrary Lagrangian-Eulerian (ALE) method**
 Jafari R., Okutucu-Ozyurt T.
 APPLIED MATHEMATICS AND COMPUTATION, vol.272, pp.593-603, 2016 (SCI-Expanded)
- XII. **An experimental study on the dispersion stability of alumina-water nanofluids via particle size distribution and zeta potential measurements**
 Elcioglu E. B., Okutucu-Ozyurt T.
 HIGH TEMPERATURES-HIGH PRESSURES, vol.45, no.3, pp.239-250, 2016 (SCI-Expanded)
- XIII. **Effective ultrasonication process for better colloidal dispersion of nanofluid**
 Mahbubul I. M., Saidur R., Amalina M. A., Elcioglu E. B., Okutucu-Ozyurt T.
 ULTRASONICS SONOCHEMISTRY, vol.26, pp.361-369, 2015 (SCI-Expanded)
- XIV. **Entropy generation analysis and dimensional optimization of an evaporator for use in a microscale refrigeration cycle**
 Turkakar G., Okutucu-Ozyurt T.
 INTERNATIONAL JOURNAL OF REFRIGERATION-REVUE INTERNATIONALE DU FROID, vol.56, pp.140-153, 2015 (SCI-Expanded)
- XV. **Dimensional optimization of microchannel heat sinks with multiple heat sources**
 Turkakar G., Okutucu-Ozyurt T.

- INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.62, pp.85-92, 2012 (SCI-Expanded)
- XVI. **Heat transfer and pressure drop experiments on CMOS compatible microchannel heat sinks for monolithic chip cooling applications**
 Koyuncuoglu A., Jafari R., Okutucu-Ozyurt T., KÜLAH H.
 INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.56, pp.77-85, 2012 (SCI-Expanded)
- XVII. **Participating media exposed to collimated short-pulse irradiation - A Laguerre-Galerkin solution**
 Okutucu T., Yener Y.
 INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.50, pp.4352-4359, 2007 (SCI-Expanded)
- XVIII. **Transient radiative transfer in participating media with pulse-laser irradiation - an approximate Galerkin solution**
 Okutucu T., Yener Y., Busnaina A. A.
 JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, vol.103, no.1, pp.118-130, 2007 (SCI-Expanded)
- XIX. **Radiative transfer in participating media with collimated short-pulse Gaussian irradiation**
 Okutucu T., Yener Y.
 JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.39, no.9, pp.1976-1983, 2006 (SCI-Expanded)

Articles Published in Other Journals

- I. **Phase Field Modeling of Vapor Bubble Growth in a Microchannel**
 Jafari R., OKUTUCU ÖZYURT H. T.
J. Compt. Multiphase Flows, 2015 (Peer-Reviewed Journal)
- II. **CFD Modeling of Boiling in a Microchannel Based On Phase Field Method**
 Jafari R., OKUTUCU ÖZYURT H. T.
Int. J. Mechanical, Aerospace, Industrial and Mechatronics Eng., 2015 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Layered Si-SiC Nanoarchitectures for Nanoscale Energy Harvesting**
 DİDARI A., ELÇİOĞLU E. B., OKUTUCU ÖZYURT H. T., MENGÜÇ M. P.
 22. Congress of Thermal Sciences and Technology (ULIBTK'19), Kocaeli, Turkey, 11 - 14 September 2019
- II. **Sub-Continuum Air Conduction Measurement between Planar Structures**
 Ghashami M., Bailey J., Mitchel E., ELÇİOĞLU E. B., DİDARI A., OKUTUCU ÖZYURT H. T., MENGÜÇ M. P., Park K.
Eurotherm: NMHT-VI: Nanoscale and Microscale Heat Transfer 2018, 2 - 07 December 2018
- III. **Near-Field Radiative Transfer Between Doped Silicon Wafers and Silicide Films**
 ELÇİOĞLU E. B., Didari A., OKUTUCU ÖZYURT H. T., MENGÜÇ M. P.
NanoTR-14, İzmir, Turkey, 22 - 25 September 2018, pp.256
- IV. **SiC-on-Si Based Near-Field Radiative Transfer Device Design, Fabrication, and Experimental Setup Development**
 ELÇİOĞLU E. B., Güngör A., Akseli G., Camadan E., OKUTUCU ÖZYURT H. T., MENGÜÇ M. P.
NANOTR-14, İzmir, Turkey, 22 - 25 September 2018, pp.266
- V. **Gold-in-Water Nanofluids in Microchannels: Surfactant Effect**
 ŞİMŞEK E., REDMOND M., KOYUNCUOĞLU A., OKUTUCU ÖZYURT H. T., KÜLAH H.
16th International Heat Transfer Conference (IHTC-16), 10 - 15 August 2018
- VI. **Tailoring Near-Field Thermal Radiation With Mesoporous GaN and H-BN Designer Metamaterials**
 DİDARI A., ELÇİOĞLU E. B., OKUTUCU ÖZYURT H. T., MENGÜÇ M. P.
Eurotherm Seminar 110 – Computational Thermal Radiation in Participating Media - VI, 11 - 13 April 2018
- VII. **GaN-SiC Katmanlı Yapılar Arasındaki Yakın-Alan Işınımına Sıcaklık ve Mesafenin Etkileri**
 ELÇİOĞLU E. B., Didari A., OKUTUCU ÖZYURT H. T., MENGÜÇ M. P.

- VIII. **Performance Evaluation of a Miniature Vapor Compression Refrigeration Cycle and its Components**
TÜRKAKAR G., Jafari R., OKUTUCU ÖZYURT H. T.
International Mechanical Engineering Congress Exposition, 3 - 09 November 2017
- IX. **Kriyojenik bir Soğutucunun Alt Parçası Olan, Ters Aaklı, Rekuperatif, Helisel Sarımlı Kılcal Boru Isı Değiştiricinin Sayısal Modelinin Oluşturulması**
MURAT B., OKUTUCU ÖZYURT H. T., SERT C.
21. Ulusal Isı Bilimi ve Tekniği Kongresi, Turkey, 13 - 16 September 2017
- X. **GaN-SiC Katmanlı Nano-Yapılar ve Yakin-Alan Işinimine Sıcaklık Farkı Ve Mesafenin Etkileri**
ELÇİOĞLU E. B., DİDARI A., OKUTUCU ÖZYURT H. T., MENGÜÇ M. P.
21. Ulusal Isı Bilimi ve Tekniği Kongresi, Turkey, 13 - 16 September 2017
- XI. **Near-Field Thermal Emission from GaN-SiC Double-Layer Structures**
Didari A., ELÇİOĞLU E. B., OKUTUCU ÖZYURT H. T., MENGÜÇ M. P.
3rd International Workshop on Nano-Micro Thermal Radiation, Daejeon, South Korea, 26 - 28 June 2017
- XII. **Impacts of Material Types and Fabrication Methods to Enhance Near Field Radiative Transfer for Energy Harvesting Devices**
ELÇİOĞLU E. B., OKUTUCU ÖZYURT H. T., MENGÜÇ M. P.
3rd International Conference on Thermophysical and Mechanical Properties of Advanced Materials - THERMAM 2016, 1 - 03 September 2016
- XIII. **Adhesive Ceramic Integrated Structure at Cryogenic Temperatures**
BALOĞLU E. C., OKUTUCU ÖZYURT H. T., DURSUNKAYA Z.
International Microelectronics Assembly and Packaging Society (IMAPS), 12th International Conference and Exhibition on Device Packaging, 15 - 17 March 2016
- XIV. **Investigation of warpage behavior of single crystal silicon on a silicon - Adhesive - ceramic integrated structure at cryogenic temperatures**
Can Baloğlu E., Okutucu-Özyurt T., DURSUNKAYA Z.
IMAPS 12th International Conference and Exhibition on Device Packaging, Arizona, United States Of America, 14 - 17 March 2016
- XV. **Investigation of warpage behavior of single crystal silicon on a silicon -adhesive -ceramicintegrated structure at cryogenic temperatures**
Can Baloğlu E., Özyurt T. O., DURSUNKAYA Z.
IMAPS 12th International Conference and Exhibition on Device Packaging, Arizona, United States Of America, 14 - 17 March 2016
- XVI. **Karbon nanotüplü nanoakışkanların ısıl iletkenliğinin geçişli sıcak tel teknigi ile ölçümü**
DURSUNKAYA E., OKUTUCU ÖZYURT H. T.
(), 20. Ulusal Isı Bilimi Ve Tekniği Kongresi, Turkey, 2 - 05 September 2015
- XVII. **Termofotovoltaik Sistemlerde Yakin Alan Işinimi İle Enerji Harmanlama** 270 20 Ulusal Isı Bilimi Ve Tekniği Kongresi
ELÇİOĞLU E. B., denker r., didari a., OKUTUCU ÖZYURT H. T., Mengüç M. P.
20. Ulusal Isı Bilimi Ve Tekniği Kongresi, Turkey, 2 - 05 September 2015
- XVIII. **Mikroelektronik aygıtların düşük sıcaklıkta yüzey bükülme davranışlarının incelenmesi**
Baloğlu E. C., OKUTUCU ÖZYURT H. T., dursunkaya z.
20. Ulusal Isı Bilimi Ve Tekniği Kongresi, Turkey, 2 - 05 September 2015
- XIX. **CFD Modeling of Boiling in a Microchannel Based On Phase Field Method**
jafari r., OKUTUCU ÖZYURT H. T.
17. International Conference on Fluid Dynamics and Thermodynamics, 27 - 28 April 2015
- XX. **The Arbitrary Lagrangian Eulerian ALE Modeling of a Vapor Bubble Growth in a Microtube**
JAFARI R., OKUTUCU ÖZYURT H. T.
12th International Conference of Numerical Analysis and Applied Mathematics, ICNAAM 2014, 22 - 28 September 2014
- XXI. **Irreversibility Analysis of an Evaporator for use in a Micro Refrigeration Cycle**

- TÜRKAKAR G., OKUTUCU ÖZYURT H. T.
15. International Heat Transfer Conference, 10 - 15 August 2014
- XXII. **An Experimental Study on the Dispersion Stability of Alumina Water Nanofluids via Particle Size Distribution and Zeta Potential Measurements**
ELÇİOĞLU E. B., OKUTUCU ÖZYURT H. T.
International Conference on Thermophysical and Mechanical Properties of Advanced Materials, THERMAM-2014, 12 - 15 June 2014
- XXIII. **Numerical Simulation of the Surface Roughness Effect on Flow Boiling in Microchannels**
JAFARI R., OKUTUCU ÖZYURT H. T.
Int. Symp. on Convective Heat and Mass Transfer, 8 - 13 June 2014
- XXIV. **An Experimental Study on Performance Enhancement of CMOS Compatible Monolithic Microchannel Heat Sinks**
KOYUNCUOĞLU A., TÜRKAKAR G., REDMOND M., OKUTUCU ÖZYURT H. T., KÜLAH H., KUMAR S.
Int. Symp. on Convective Heat and Mass Transfer, 8 - 13 June 2014
- XXV. **Stability of Nanofluids A Critical Review**
ŞİMŞEK E., ELÇİOĞLU E. B., OKUTUCU ÖZYURT H. T.
Int. Symp. on Convective Heat and Mass Transfer, 8 - 13 June 2014
- XXVI. **Investigation of non quarter wave design on multilayer optical thin film coatings from a heat transfer point of view**
OCAK M., SERT C., OKUTUCU ÖZYURT H. T.
Laser-Induced Damage in Optical Materials: 2013, 22 September 2013
- XXVII. **Piezoelektrik ve Piroelektrik Özellikli Malzemelerle Melez Enerji Harmanlayıcı Tasarımı**
KOYUNCUOĞLU A., ZORLU Ö., OKUTUCU ÖZYURT H. T., KÜLAH H.
19. Ulusal Isı Bilimi Ve Tekniği Kongresi, Turkey, 9 - 12 September 2013
- XXVIII. **Coklu Isı Kaynaklı Mikrokanallı Isı Alıcılarının Boyutsal Optimizasyonu**
TÜRKAKAR G., OKUTUCU ÖZYURT H. T.
19. Ulusal Isı Bilimi Ve Tekniği Kongresi, Turkey, 9 - 12 September 2013
- XXIX. **Sıcaklık Alan Teorisi ile Çok Katmanlı Optik İnce Film Kaplamaları Üzerindeki Sıcaklık Dağılımının Elde Edilmesi ve İyileştirilmesi**
OCAK M., SERT C., OKUTUCU ÖZYURT H. T.
19. Ulusal Isı Bilimi Ve Tekniği Kongresi, Turkey, 9 - 12 September 2013
- XXX. **MEMS Tabanlı Mikrokanallı Isı Kuyularında Su ve Nanoakışkanlar ile Isı Transferi İyileştirme Deneyleri**
KOYUNCUOĞLU A., JAFARI R., REDMOND M., OKUTUCU ÖZYURT H. T., KÜLAH H.
19. Ulusal Isı Bilimi Ve Tekniği Kongresi, Turkey, 9 - 12 September 2013
- XXXI. **Hybrid energy harvester using piezoelectric and pyroelectric properties of PZT 5A ceramics**
KOYUNCUOĞLU A., ZORLU Ö., OKUTUCU ÖZYURT H. T., KÜLAH H.
11th International Energy Conversion Engineering Conference IECEC-11, 13 - 15 July 2013
- XXXII. **Optimization of microchannels for liquid cooling of electronic chips**
TÜRKAKAR G., OKUTUCU ÖZYURT H. T.
26th European Conference on Operational Research, 1 - 04 July 2013
- XXXIII. **Near field radiative heat transfer measurements between parallel plates**
WEBB K. D., ARTVIN Z., Khosroshahi F. K., ERTÜRK H., OKUTUCU ÖZYURT H. T., MENGÜÇ M. P.
7th International Symposium on Radiative Transfer (RAD 13), 2 - 08 June 2013
- XXXIV. **Heat transfer enhancement with nanofluids in CMOS compatible microchannel heat sinks**
OKUTUCU ÖZYURT H. T., KÜLAH H., KOYUNCUOĞLU A., JAFARI R.
BIT's 2nd Annual World Congress of Nanoscience and Nanotechnology, 26 - 28 October 2012
- XXXV. **THz Time Domain Spectroscopy investigation of the dynamics of metal nanoparticle suspensions in micro channels**
KORAL C., VURAL H. A., ORTAÇ B., OKUTUCU ÖZYURT H. T., ALTAN H.
7. Türkiye Nanobilim ve Nanoteknoloji Konferansı, Turkey, 27 June 2011 - 01 July 2012

- XXXVI. **Heat transfer enhancement with nanofluids in CMOS compatible microchannel heat sinks 1**
 JAFARI R., KOYUNCUOĞLU A., OKUTUCU ÖZYURT H. T., KÜLAH H.
 8. Türkiye Nanobilim ve Nanoteknoloji Konferansı, Turkey, 25 - 29 June 2012
- XXXVII. **Terahertz Time Domain Spectroscopy investigation of nanofluids**
 KORAL C., ALTAN H., VURAL H. A., ORTAÇ B., OKUTUCU ÖZYURT H. T.
 8. Türkiye Nanobilim ve Nanoteknoloji Konferansı, Turkey, 25 - 29 June 2012
- XXXVIII. **Flat Plate Film Cooling Performance Predictions by RANS Turbulence Models**
 Inanlı S., Gorgulu I., Okutucu T., UZOL O.
 7th International Symposium on Turbulence Heat and Mass Transfer (THMT), Palermo, Italy, 24 - 27 September 2012, pp.1262-1271
- XXXIX. **Effects of Thermophysical Properties and Entrance Region on the Dimensional Optimization of Microchannel Heat Sinks**
 TÜRKAKAR G., OKUTUCU ÖZYURT H. T.
 International Symposium on Thermal and Materials Nanoscience and Nanotechnology, 29 May - 03 June 2011
- XL. **An Interferometric Technique for Measuring Micron Level Clearances Filled with a Lubricant**
 YILDIRIM M., DURSUNKAYA Z., OKUTUCU ÖZYURT H. T.
 STLE/ASME 2010 International Joint Tribology Conference (IJTC2010), 17 - 20 October 2010
- XLI. **A CMOS Compatible Metal Polymer Microchannel Heat Sink for Monolithic Chip Cooling Applications**
 KOYUNCUOĞLU A., OKUTUCU ÖZYURT H. T., KÜLAH H.
 14th International Heat Transfer Conference, IHTC14, 8 - 13 August 2010
- XLII. **Dependent Absorption and Scattering by Interacting Nanoparticles**
 DÖNMEZER AKGÜN F. N., MENGÜÇ M. P., OKUTUCU ÖZYURT H. T.
 6th International Symposium on Radiative Transfer, 13 - 19 June 2010
- XLIII. **DEVELOPMENT OF AN INTERFEROMETRIC TECHNIQUE TO BE USED IN MEASURING MICRON LEVEL CLEARANCES FILLED WITH A LUBRICANT**
 Yıldırım M., DURSUNKAYA Z., Okutucu T.
 ASME/STLE International Joint Tribology Conference, Tennessee, United States Of America, 19 - 21 October 2009, pp.151-153
- XLIV. **Effect of Nanoconvection due to Brownian Motion on Thermal Conductivity of Nanofluids**
 AZIZIAN M. R., AYBAR H. Ş., OKUTUCU ÖZYURT H. T.
 7th IASME/WSEAS International Conference on Heat Transfer, Thermal Engineering and Environment (HTE'09), 20 - 22 August 2009
- XLV. **Dependent absorption and scattering by interacting nano sized particles**
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Okutucu Özyurt H. T., TUBITAK Project, Termofotovoltaik Enerji Harmanlama Sistemlerinde Yakın Alan İşinim Deneyleri, 2015 - 2019
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Okutucu Özyurt H. T., TUBITAK Project, Mikro Ölçekte Bir Buhar Sıkıştırmalı Soğutma Çevriminin Tasarım Üretim ve Testleri, 2013 - 2016
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Non Academic Experience

Sabancı Üniversitesi Nanoteknoloji Araştırma ve Uygulama Merkezi
ODTÜ-MEMS Merkezi