

CURRICULUM VITAE AND PUBLICATION LIST

CURRICULUM VITAE

Name: Tuba OKUTUCU ÖZYURT

DOB: 06 SEPTEMBER 1975

Address: Department of Mechanical Engineering, A-143, Middle East Technical University (ODTÜ), 06800, Ankara, Turkey

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Education:

Degree	Dept./Program	University	Years
B.S.	Mechanical Eng.	Middle East Technical University (ODTÜ)	1993-1997
M.S.	Mechanical Eng.	Middle East Technical University (ODTÜ)	1997-1999
Ph.D.	Mechanical Eng.	Northeastern University	2000-2005

M.S. Thesis Title and Advisors:

Construction of a Test Set-up and Experimental Evaluation of Refrigerator Condensers,
Advisor: Prof.Dr. Rüknettin Oskay, Co-advisor: Prof. Dr. Arif İleri

Ph.D. Thesis Title and Advisors:

Analytical and Experimental Study of Transient Radiative Transfer in Participating Media with Short-Pulse Laser Irradiation

Advisor: Prof.Dr. Yaman Yener, Co-advisor: Prof. Dr. Ahmed Busnaina

Employment:

Title	Work Place	Year
Teaching Assistant	Dept. of Mechanical Engineering, Middle East Technical University (ODTÜ)	1997-2000
Administrative and Research Assistant	Graduate School of Engineering, Northeastern University	2000-2005
Instructor	Dept. of Mechanical Engineering, Middle East Technical University (ODTÜ)	2006-2007
Assistant Professor	Dept. of Mechanical Engineering, Middle East Technical University (ODTÜ)	2007-2013
Associate Professor	Dept. of Mechanical Engineering, Middle East Technical University (ODTÜ)	2013-

M.S. Thesis Advising:

Completed M.S. Theses

As Principal Advisor:

a. Mechanical Engineering Program

1. Balođlu, Eyüp Can, “An Experimental and Numerical Investigation of Warpage Behavior of Silicon Substrates at Cryogenic Temperatures,” Eylül 2016 (eş danıřman: Dr. Zafer Dursunkaya).
2. Őimőek, Eylül, “Experimental Investigation of Nanofluid Behavior in Microchannel Heat Exchangers,” Haziran 2016.
3. Dursunkaya, Erdem, “Experimental and Numerical Investigation of Surfactant Effects on the Thermal Conductivity of Carbon Nanotube Nanofluids” Haziran 2014, (eş danıřman: Dr. Alpaslan Turgut).
4. Baltacıođlu, Mert, “Development and Experimental Investigation of a Cooling System for Flash-Lamp Pumped Nd-Yag Laser Target Designator,” Kasım 2014.
5. Özsaçmacı, Yiđit, “Experimental Investigation of Refrigerator Condensers for Possible Design Improvements,” Haziran 2014 (eş danıřman: Dr. Rüknettin Oskay).
6. Birol, Kemal Özgen, “Design and Analysis of Energy Saving Buildings Using The Software Energy Plus,” Ağustos 2012 (eş danıřman: Dr. Rüknettin Oskay).
7. Yüksel, Yüksel, “Thermoelectric cooling of a pulsed mode 1064 nm diode pumped Nd: YAG laser,” Eylül 2010 (eş danıřman: Dr. Rüknettin Oskay).
8. Koyuncuođlu, Aziz, “Design, fabrication, and experimental evaluation of microchannel heat sinks in CPU cooling,” Ağustos, 2010 (eş danıřman: Dr. Faruk Arınç).
9. Türkakar, Göker, “Numerical simulation and analytical optimization of microchannel heat sinks,” Ağustos, 2010.
10. Yıldız, Seyfettin, “Design and simulation of a vapor compression refrigeration cycle for a micro refrigerator,” Haziran, 2010 (eş danıřman: Dr. Rüknettin Oskay).
11. Dönmezer, Fatma Nazlı, “A Numerical Study on Dependent Absorption and Scattering by Interacting Nanosized Particles,” Haziran 2009 (eş danıřman: Dr. M.Pınar Mengüç).

b. Micro and Nanotechnology Program

1. Koral, Can, “Experimental Investigation of Nanofluid Behavior in Microchannel Heat Sinks Using Terahertz Time Domain Spectroscopy,” June 2012 (Co-advisor: Dr. Hakan Altan).
2. Artvin, Zafer, “Nanofabrication of Metallic Thin Film Layers using E-Beam Lithography for Energy Conversion Applications,” August 2012 (Co-advisor: Dr. M.Pınar Mengüç).

As Co-Advisor:

a. Mechanical Engineering Program

1. Yıldırım, Murat, “Design and Construction of an Experimental Apparatus for the Interferometric Measurement of Micrometer Level Clearances,” June 2009 (principal advisor: Dr. Zafer Dursunkaya).
2. Azizian, Mohammad Reza, “Evaluation of Thermo-physical Properties of Nanofluids,” February 2009 (asil danışman: Dr. Hikmet Ş. Aybar, Doğu Akdeniz Üniversitesi, KKTC).

Continuing M.S. Theses

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Ph.D. Thesis Advising:

Completed Ph.D. Theses

As Principal Advisor:

a. Mechanical Engineering Program

1. Türkakar, Göker, “Design, Optimization and Testing of Micro-Evaporator and Micro-Condenser Components used in a Miniature Vapor Compression Refrigeration Cycle” Eylül 2016.
2. Jafari, Rahim, “Implementation of Metal-Based Microchannel Heat Exchangers in A Microrefrigeration Cycle, and Numerical and Experimental Investigation of Surface Roughness Effects on Flow Boiling,” Eylül 2015 (eş danışman: Dr. Özgür Ünver).

As Co-Advisor:

a. Mechanical Engineering Program

1. Kayserilioğlu, Yavuz Selim “Free Convection Heat Transfer in Stratified Medium - Cavity Problem,” September 2013 (principle advisor: Dr. Rüknettin Oskay).
2. Ocak, Mustafa “Numerical and Experimental Investigation on Laser Damage Resistance of Highly Reflective Multilayer Thin Films,” Ocak 2016 (principle advisor: Dr.Cüneyt Sert)

Continuing Ph.D. Theses

As Principal Advisor:

a. Mechanical Engineering Program

1. Elçioğlu, Elif Begüm, “Near Field Radiation Experiments,” (co-advisor: Dr. M. Pınar Mengüç).
2. Baki, Murat, “Optimizing Heat Exchanger Parameters of a Joule - Thomson Cryogenic Cooler to Increase the Cooling Efficiency.” (co-advisor: Dr. Cüneyt Sert).
3. Baloğlu, Eyüp Can, (co-advisor: Dr. Zafer Dursunkaya).

As Co-Advisor:

a. Micro and Nanotechnoloji Program

1. Koyuncuoğlu, Aziz, “Design and Fabrication of Thermal Energy Scavenging Micro Devices,” (principle advisor: Dr. Haluk Külâh).

Project Work:

Continuing International Projects:

1. Researcher, EU 7. Frame Program, EU-Solaris, The European Solar Research Infrastructure for Concentrated Solar Power, 2012-2016.

Continuing National Projects:

1. Principle Investigator, TÜBİTAK 1001 Project, 214M308, Near-field Radiation Experiments in Thermophotovoltaic Energy Harvesting Systems, 2015-2017.

Completed National Projects

TÜBİTAK funded projects

1. Principle Investigator, TÜBİTAK 1001 Project, 106M433, Design and Construction of an Experimental Setup for the Investigation of the Piston-Cylinder Bearing, 2007-2009.
2. Principle Investigator, TÜBİTAK 3501 (Career) Project, 108M515, MEMS Production Of Microchannel Heat Sinks with Nanofluids as the Working Fluid and Their Application in Microchip Cooling, 2009-2012.
3. Principle Investigator, TÜBİTAK 1001 Project, 112M168, Design, Fabrication and Testing of a Microscale Vapor Compression Refrigeration Cycle, 2013-2015.

Local Projects Funded by ODTÜ-Project Office

1. Principle Investigator, Scientific Research Project, ODTÜ, BAP-2007-03-02-00-01, Design and Construction of an Experimental Setup for the Investigation of the Piston-Cylinder Bearing, 2007-2009.
 2. Principle Investigator, Scientific Research Project, ODTÜ, BAP-2008-03-02-04, Design and Construction of the Experimental Set-ups to Demonstrate: Heat Conduction, Heat Transfer Enhancement, and Shell and Tube Type Heat Exchangers, 2008-2010.
 3. Principle Investigator, Scientific Research Project, ODTÜ, BAP-03-02-2013-002, Development of an Experimental Set-up for Nano-fluid Thermal Conductivity Measurements, 2013-2014.
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Administrative Duties:

Member, Graduate Education Committee (ODTÜ, Dept. of Mechanical Eng.), 2015-
Member, Education Assessment Committee (ODTÜ, Dept. of Mechanical Eng.), 2008-
Member, Education Committee (ODTÜ, Faculty of Engineering), 2007-2012
Administrative Assistant (Northeastern Univ., Graduate School of Engineering), 2000-2003

Scientific Memberships:

1. American Society of Mechanical Engineers (ASME) Executive Committee Member, Turkey Section (2006 - 2009)
2. International Centre for Heat and Mass Transfer (ICHMT) Scientific Council (2006 -)
3. American Society of Mechanical Engineers (ASME) Member, (2002-)
4. Turkish Thermal Science and Technology Association (TIBTD) Executive Committee Member, (2013-)

Awards:

1. TÜBİTAK 3501 Career Grant (108M515)
2. TÜBİTAK NATO A1 Ph.D. Scholarship, 2000.
3. Phi Kappa Phi Honor Society Membership, A.B.D., 2005
4. Phi Beta Delta Honor Society Membership, A.B.D., 2002
5. Dr. Mustafa Parlar Foundation, Thesis of the Year Award (Dr. Rahim Jafari, Ph.D. Thesis), 2015
6. Dr. Mustafa Parlar Vakfı, Yılın Tezi Ödülü (Dr. Göker Türkakar, Doktora tezi), 2016

Undergraduate and Graduate Coursework in the Last Three Years:

Academic Year	Semester	Course Name	Hours/Week		Number of Students
			Theory	Practice	
2015-2016	Fall	• Heat Transfer	3	0	60
		• Analytical Methods for Engineers	3	0	50
		• Thermal Engineering	3	0	60
	Spring	• Advanced Heat Transfer 2 – Heat Convection	3	0	30
2013-2014	Fall	• Advanced Heat Transfer 1 – Heat Conduction	3	0	45
		• Micro- and Nanoscale Heat Transfer	3	0	5
	Spring	• Advanced Heat Transfer 2 – Heat Convection	3	0	30
		• Analytical Methods for Engineers	3	0	38
2012-2013	Güz	• Heat Transfer	3	0	60
		• Analytical Methods for Engineers	3	0	45
	İlkbahar	• Thermal Engineering	3	0	60
		• Micro- and Nanoscale Heat Transfer	3	0	25

Note: No courses were given due to maternity leave during the 2014-2015 academic year.

LIST OF PUBLICATIONS

Patents (International):

P1. Haluk Klah, Aziz Koyuncuođlu, Tuba Okutucu zyurt, CMOS Compatible Microchannel Heat Sink for Cooling Electronic Components and its Fabrication, 30.09.2015. European Patent: EP 2 591 500 B1

P2. Haluk Klah, Aziz Koyuncuođlu, Tuba Okutucu zyurt, CMOS Compatible Microchannel Heat Sink for Cooling Electronic Components and its Fabrication, Japonya, 2015

P3. Haluk Klah, Aziz Koyuncuođlu, Tuba Okutucu zyurt, CMOS Compatible Microchannel Heat Sink for Cooling Electronic Components and its Fabrication, KIPO 10-1675028, G. Kore, 2016

Patents (National):

p1. Haluk Klah, Aziz Koyuncuođlu, Hanife Tuba Okutucu zyurt CMOS Compatible Microchannel Heat Sink for Cooling Electronic Components and its Fabrication, Registration no: 2013 00075, 2013.

Book Chapters (International):

KB1. E.B. Eliođlu, E. ŐimŐek, and T. Okutucu-zyurt, Chapter 6: Stability of Nanofluids: Fundamentals, State-of-the-Art, and Potential Applications, Book: Microscale and Nanoscale Heat Transfer: Analysis, Design, and Application, Editors: Mourad Rebay, Sadık Kaka, Renato M. Cotta, 1 February 2016, CRC Press, ISBN 9781498736305

Articles in International Peer Reviewed Journals (SCI and top 50% of SCI-Expanded):

A.11 Rahim Jafari, Tuba Okutucu-zyurt, Hakkı zgr nver, zgr Bayer, "Experimental investigation of surface roughness effects on the flow boiling of R134a in microchannels," Experimental Thermal and Fluid Science, Volume 79, December 2016, Pages 222-230, ISSN 0894-1777, <http://dx.doi.org/10.1016/j.expthermflusci.2016.07.016>.

A.10 Gker Trkakar, Tuba Okutucu zyurt, Satish G. Kandlikar, "Entropy generation analysis of a microchannel-condenser for use in a vapor compression refrigeration cycle," International Journal of Refrigeration, Available online 29 June 2016, ISSN 0140-7007, <http://dx.doi.org/10.1016/j.ijrefrig.2016.06.028>.

A.9 Murat Yildirim, Tuba Okutucu-zyurt, Zafer Dursunkaya, A numerical algorithm to determine straightness error, surface roughness, and waviness measured using a fiber optic interferometer, Optics & Laser Technology, Volume 85, November 2016, Pages 19-29, ISSN 0030-3992, <http://dx.doi.org/10.1016/j.optlastec.2016.05.014>.

A.8 R. Jafari, T. Okutucu-zyurt, "Numerical simulation of flow boiling from an artificial cavity in a microchannel," International Journal of Heat and Mass Transfer (97) 270– 278, 2016, DOI: 10.1016/j.ijheatmasstransfer.2016.02.028

A.7 R. Jafari, T. Okutucu-Özyurt, “3D numerical modeling of boiling in a microchannel by arbitrary Lagrangian–Eulerian (ALE) method,” *Applied Mathematics and Computation* 272 (3), 593-603, 2016, DOI:10.1016/j.amc.2015.03.042

A.6 G.Türkakar, T. Okutucu-Özyurt, “Entropy Generation Analysis and Dimensional Optimization of an Evaporator for Use in a Microscale Refrigeration Cycle,” *International Journal of Refrigeration* 56, 140-153, 2015, DOI: 10.1016/j.ijrefrig.2015.04.003

A.5 Türkakar, T. Okutucu-Özyurt, "Dimensional Optimization of Microchannel Heat Sinks with Multiple Heat Sources", *International Journal of Thermal Sciences* 62, 85-92, 2012, DOI: 10.1016/j.ijthermalsci.2011.12.015

A.4 Koyuncuoğlu, R. Jafari, T. Okutucu-Özyurt, H. Külah, "Heat Transfer and Pressure Drop Experiments on CMOS Compatible Microchannel Heat Sinks for Monolithic Chip Cooling Applications", *International Journal of Thermal Sciences* 56, 77-85, 2012, DOI: 10.1016/j.ijthermalsci.2012.01.006

A.3 Okutucu, T., Yener, Y., "Participating Media Exposed to Collimated Short-Pulse Irradiation - A Laguerre-Galerkin Solution", *International Journal of Heat and Mass Transfer* 50, 4352-4359, 2007, DOI:10.1016/j.ijheatmasstransfer.2007.01.051

A.2 Okutucu, T., Yener, Y., Busnaina, A.A., "Transient Radiative Transfer in Participating Media with Pulse-Laser Irradiation - An Approximate Galerkin Solution", *Journal of Quantitative Spectroscopy and Radiative Transfer* 103, 118-130, 2007, DOI: 10.1016/j.jqsrt.2006.06.004

A.1 Okutucu, T., Yener, Y., "Radiative Transfer in Participating Media with Collimated Short-Pulse Gaussian Irradiation", *Journal of Physics D: Applied Physics* 39, 1976-1983, 2006, DOI: 10.1088/0022-3727/39/9/039

Uluslararası hakemli dergilerde yayımlanan makaleler (SCI-B: 1.1.1.0.3):

SCI-B.1 E.B. Elçiöğlü, T. Okutucu-Özyurt, “An experimental study on the dispersion stability of alumina-water nanofluids via particle size distribution and zeta potential measurements” *High Temperatures - High Pressures (HTHP)* 45.3, 239-250, 2016.

Articles in International Peer Reviewed Journals (other than SCD):

a.3 I.M. Mahbulul, R. Saidur, M.A. Amalina, E.B. Elcioglu, T. Okutucu-Ozyurt, “Effective ultrasonication process for better colloidal dispersion of nanofluid”, *Ultrasonics Sonochemistry* 26, 361–369, 2015, DOI: 10.1016/j.ultsonch.2015.01.005

a.2 R. Jafari, T. Okutucu-Özyurt, Phase-Field Modeling of Vapor Bubble Growth in a Microchannel, *J. Compt. Multiphase Flows* 7(3), 143–158, 2015, DOI: 10.1260/1757-482X.7.3.143

a.1 R. Jafari, T. Okutucu-Özyurt, CFD Modeling of Boiling in a Microchannel Based On Phase-Field Method, *World Academy of Science, Engineering and Technology, International Science Index* 100, *Int. J. Mechanical, Aerospace, Industrial and Mechatronics Eng.*, 9(4), 572-576, 2015

Full Papers Published in the Proceedings of International Scientific Meetings:

B.19 Elçioğlu, E.B., Okutucu-Özyurt, T., Mengüç, M.P., “Impacts of Material Types and Fabrication Methods to Enhance Near Field Radiative Transfer for Energy Harvesting Devices,” 3rd International Conference on Thermophysical and Mechanical Properties of Advanced Materials - THERMAM 2016, İzmir, Türkiye, 1-3 Eylül 2016.

B.18 Baloğlu, E.C., Okutucu-Özyurt, T., Dursunkaya, Z., “Investigation of Warpage Behavior of Single Crystal Silicon on a Silicon – Adhesive – Ceramic Integrated Structure at Cryogenic Temperatures,” International Microelectronics Assembly and Packaging Society (IMAPS), 12th International Conference and Exhibition on Device Packaging, Fountain Hills, Arizona USA, 15-17 March 2016.

B.17 Jafari, R., Okutucu-Özyurt, T., “CFD Modeling of Boiling in a Microchannel Based On Phase-Field Method,” 17. International Conference on Fluid Dynamics and Thermodynamics, Paris, France, 27-28 April 2015, 17 (4) Part XII, 2053-2057.

B.16 Jafari, R., Okutucu-Özyurt, T., “The Arbitrary Lagrangian-Eulerian (ALE) Modeling of a Vapor Bubble Growth in a Microtube,” 12th International Conference of Numerical Analysis and Applied Mathematics, ICNAAM 2014, p. 929, Greece, September 2014.

B.15 Türkakar, G., Okutucu-Özyurt, T., “Irreversibility Analysis of an Evaporator for use in a Micro-Refrigeration Cycle,” 15. International Heat Transfer Conference, Kyoto, Japan, August, 2014.

B.14 Elçioğlu, E.B., Okutucu-Özyurt, T., “An Experimental Study on the Dispersion Stability of Alumina-Water Nanofluids via Particle Size Distribution and Zeta Potential Measurements,” International Conference on Thermophysical and Mechanical Properties of Advanced Materials, THERMAM-2014, 12-15 June 2014, İzmir, Turkey.

B.13 Şimşek, E., Elçioğlu, E.B., Okutucu-Özyurt, T. “Stability of Nanofluids – A Critical Review,” CONV-14-314, Int. Symp. on Convective Heat and Mass Transfer, 8 – 13 June 2014, Aydın, Turkey.

B.12 Koyuncuoğlu, A., Türkakar, G., Redmond, M., Okutucu-Özyurt, T., Külah, H., Kumar, S., “An Experimental Study on Performance Enhancement of CMOS Compatible Monolithic Microchannel Heat Sinks,” CONV-14-317, Int. Symp. on Convective Heat and Mass Transfer, 8 – 13 June 2014, Aydın, Turkey.

B.11 Ocak, M., Sert, C., Ö. Okutucu, T., “Investigation of non-quarter wave design on multilayer optical thin film coatings from a heat transfer point of view,” Laser-Induced Damage in Optical Materials: 2013, editörler Gregory J. Exarhos, Vitaly E. Gruzdev, Joseph A. Menapace, Detlev Ristau, MJ Soileau, Proc. of SPIE Vol. 8885, 888506-1-9, doi: 10.1117/12.2030330

B.10 Koyuncuoğlu A., Zorlu O., Okutucu-Özyurt T., Kulah H., “Hybrid energy harvester using piezoelectric and pyroelectric properties of PZT-5A ceramics” 11th International Energy Conversion Engineering Conference IECEC-11, San Jose, California, USA, 13-15 July 2013, DOI: 10.2514/6.2013-4030

B.9 Türkakar, G., Okutucu-Özyurt, T., "Effects of Thermophysical Properties and Entrance Region on the Dimensional Optimization of Microchannel Heat Sinks" in “Proceedings of the International Symposium on Thermal and Materials Nanoscience and Nanotechnology” 042(CD) pp., Antalya, Turkey, June 2011

B.8 Yıldırım, M., Dursunkaya, Z., Okutucu, T., "An Interferometric Technique for Measuring Micron Level Clearances Filled with a Lubricant in "Proceedings of the STLE/ASME International Joint Tribology Conference" 167-169 pp., San Francisco, California, USA, October 2010, Published in 2011

B.7 Dönmezer, F.N., Mengüç, M.P., Okutucu, T., "Dependent Absorption and Scattering by Interacting Nanoparticles" in "Proceedings of the 6th International Symposium on Radiative Transfer" CD pp., Antalya, Turkey, June 2010

B.6 Koyuncuoğlu, A., Okutucu, T., Külah, H., "A CMOS Compatible Metal-Polymer Microchannel Heat Sink for Monolithic Chip Cooling Applications" in "Proceedings of the 14th International Heat Transfer Conference, IHTC14" IHTC14-23212 pp., Washington, DC, USA, Ağustos 2010

B.5 Yıldırım, M., Dursunkaya, Z., Okutucu, T., "Experimental Investigation of Micron Level Clearances Using Fibre Optic Interferometry" in "Proceedings of the 11th International Conference on Tribology - SERBIATRIB '09" 296-300 pp., Belgrade, Serbia, May 2009

B.4 Azizian, M.R., Aybar, H.S., Okutucu, T., "Effect of Nanoconvection due to Brownian Motion on Thermal Conductivity of Nanofluids" in "Proceedings of the 7th IASME/WSEAS International Conference on Heat Transfer, Thermal Engineering and Environment (HTE'09)" 53-56 pp., Moskov, Russia, August 2009

B.3 Okutucu, T., Yener, Y., "Transient Radiative Transfer In Participating Media With Short-Pulse Irradiation - An Approximate Laguerre-Galerkin Solution" in "Proceedings of the 13th International Heat Transfer Conference, IHTC13" RAD-15 pp., Sydney, Australia, August 2006

B.2 Yener, Y., Kakaç, S., Avelino, M., Okutucu, "Single-Phase Forced Convection in Microchannels – A State-of-the-Art Review" in Proceedings of "Microscale Heat Transfer - Fundamentals and Applications in Biological Systems and MEMS" 1-24 pp., İzmir, Turkey, July 2004, Printed in 2005

B.1 Kakaç, S., Yener, Y., Sun, W., Okutucu, T., "Single-Phase Convective Heat Transfer in Microchannels - A State-of-the-Art Review" in "Proceedings of the 14th International Thermal Engineering and Thermogrammetry Conference" CD pp., Budapest, Hungary, June 2005

Abstracts Published in the Proceedings of International Scientific Meetings:

b.5 Jafari, R., Okutucu-Özyurt, T., "Numerical Simulation of the Surface Roughness Effect on Flow Boiling in Microchannels," in "Proceedings of Int. Symp. on Convective Heat and Mass Transfer" CONV-14-302, Extended Abstract, , Aydın, Turkey, 8 – 13 June 2014.

b.4 Okutucu, T., Türkakar, G., "Optimization of microchannels for liquid cooling of electronic chips," in "Proceedings of the 26th European Conference on Operational Research" 6 pp., Rome, İtalya, 1-4 July 2013.

b.3 Webb, Kurt D., Zafer Artvin, Farhad Kazemi Khosroshahi, Hakan Ertürk, Tuba Okutucu, ve M. Pinar Mengüç. "Near-field radiative heat transfer measurements between parallel plates." Genişletilmiş Özet, Proceedings of 7th International Symposium on Radiative Transfer (RAD 13), Aydın, Türkiye, 2-8 Haziran 2013.

b.2 Okutucu-Özyurt, T., Külah, H., Koyuncuoğlu, A., Jafari, R., "Heat transfer enhancement with nanofluids in CMOS compatible microchannel heat sinks" in "Proceedings of BIT's 2nd

Annual World Congress of Nanoscience and Nanotechnology, Qingdao, P.R. China, 26-28 October 2012.

b.1 Okutucu, T. and Yener, Y., IMECE2007, "Propagation of Ultra-Short- Pulse Radiation in Participating Media: A Laguerre-Galerkin Solution" in "Proceedings of "IMECE2007, International Mechanical Engineering Congress and Exposition", Extended Abstract, IMECE2007-41911 pp., Seattle, Washington, USA, November 2007.

Full Papers Published in the Proceedings of National Scientific Meetings:

U.7 Dursunkaya, E., Kahani, M., Okutucu Özyurt, T., "Karbon nanotüplü nanoakışkanların ısı iletkenliğinin geçişli sıcak tel tekniği ile ölçümü," (269), 20. Ulusal Isı Bilimi ve Tekniği Kongresi, Balıkesir, Turkey, 2-5 September 2015.

U.6 Elçioğlu, E.B., Denker, R., Didari, A., Okutucu-Özyurt, T., Mengüç, M.P., "Termofotovoltaik Sistemlerde Yakın Alan Işınımı ile Enerji Harmanlama," (270), 20. Ulusal Isı Bilimi ve Tekniği Kongresi, Balıkesir, Turkey, 2-5 September 2015.

U.5 Baloğlu, E.C., Okutucu-Özyurt, T., Dursunkaya, Z., "Mikroelektronik aygıtların düşük sıcaklıkta yüzey bükülme davranışlarının incelenmesi," (271), 20. Ulusal Isı Bilimi ve Tekniği Kongresi, Balıkesir, Turkey, 2-5 September 2015.

U.4 Türkakar, G., Okutucu Özyurt, T., "Çoklu Isı Kaynaklı Mikrokanallı Isı Alıcılarının Boyutsal Optimizasyonu," in "Proceedings of 19. Ulusal Isı Bilimi Ve Tekniği Kongresi" Editors, Haşmet TÜRKOĞLU, Aydın DURMUŞ, Lütfü NAMLI, 345-355 pp., Samsun, Turkey 09 - 12 September 2013.

U.3 Koyuncuoğlu, A., Jafari, R., Redmond, M., Okutucu-Özyurt, T., Külah, H., "MEMS Tabanlı Mikrokanallı Isı Kuyularında Su ve Nanoakışkanlar ile Isı Transferi İyileştirme Deneyleri," in "Proceedings of 19. Ulusal Isı Bilimi Ve Tekniği Kongresi" Editors, Haşmet TÜRKOĞLU, Aydın DURMUŞ, Lütfü NAMLI, 411-415 pp., Samsun, Türkiye 09 - 12 Eylül 2013.

U.2 Ocak, M., Sert, C., Okutucu Özyurt, T., "Sıcaklık Alan Teorisi ile Çok Katmanlı Optik İnce Film Kaplamaları Üzerindeki Sıcaklık Dağılımının Elde Edilmesi ve İyileştirilmesi," in "Proceedings of 19. Ulusal Isı Bilimi Ve Tekniği Kongresi" Editors, Haşmet TÜRKOĞLU, Aydın DURMUŞ, Lütfü NAMLI, 538-543 pp., Samsun, Türkiye 09 - 12 Eylül 2013.

U.1 Koyuncuoğlu, A., Zorlu, Ö., Okutucu-Özyurt, T. Külah, H., "Piezoelektrik ve Piroelektrik Özellikli Malzemelerle Melez Enerji Harmanlayıcı Tasarımı," in "Proceedings of 19. Ulusal Isı Bilimi Ve Tekniği Kongresi" Editors, Haşmet TÜRKOĞLU, Aydın DURMUŞ, Lütfü NAMLI, 1390-1394 pp., Samsun, Türkiye 09 - 12 Eylül 2013.

Extended Abstracts Published in the Proceedings of National Scientific Meetings:

u.4 Jafari, R., Koyuncuoğlu, A., Okutucu Özyurt, T., Külah, H., "Heat transfer enhancement with nanofluids in CMOS compatible microchannel heat sinks" in "Proceedings of 8. Türkiye Nanobilim ve Nanoteknoloji Konferansı" Extended Abstract: 0199, OP-140, Ankara, Turkey, 25-29 June 2012.

u.3 Koral, C., Altan, H., Vural, H.A., Ortaç, B., Okutucu, T., "Terahertz Time Domain Spectroscopy investigation of nanofluids" in "Proceedings of 8. Türkiye Nanobilim ve Nanoteknoloji Konferansı" Extended Abstract: 0284, PP-403, Ankara, Türkiye, 25-29 Haziran 2012.

u.2 Koral, C., Vural, H.A., Ortaç, B., Okutucu, T., Altan, H., "THz Time Domain Spectroscopy investigation of the dynamics of metal nanoparticle suspensions in micro-channels", in "Proceedings of 7. Türkiye Nanobilim ve Nanoteknoloji Konferansı" Extended Abstract, İstanbul, Turkey, 27 June - 1 July 2011.

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