


IŞIK UNIVERSITY
Mechanical Engineering Department
Personnel Data Form

A. PERSONAL		
Title	Assistant Prof. Dr.	
Name	Sinan Eren YALÇIN	
Birth Place and Year	Istanbul / 03.05.1980	
e-Mail / Personal Web Site	sinaneren.yalcin@isikun.edu.tr	
Working Field	Thermo-Fluidic Systems, Microfluidics	
Foreign Language	English	

B. EDUCATION			
Degree	Year	Subject	Institution
Doctorate	2011	Mech. and Aerospace Eng.	Old Dominion University (USA)
Master of Science	2006	Mechanical Engineering	Istanbul Technical University
Bachelor of Science	2003	Marine Engineering	Istanbul Technical University
Associate	-	-	-

C. ACADEMIC		
Title	Year	Institution
Professor	-	-
Associate Professor	-	-
Assistant Professor	2018 -	Işık University - Mechanical Engineering Department
Lecturer	-	-
Research Assistant	2005-2007	Istanbul Technical University- Mechanical Eng. Dept.

D. PROFESSIONAL EXPERIENCE	
a. Domestic	
2018-current	Assistant Prof. Dr., Isik University, Mechanical Engineering Department
2018-2018	Assistant Prof. Dr., Dogus University, Mechanical Eng. Dept.
2015-2017	Thermal System Design Lead Engineer, GE Aviation
2014-2015	Engine Systems Research and Development Eng., TOFAŞ Automotive Factory
2012-2014	Post-doctoral Fellow, Sabanci Univ., Microfluidic Systems Lab.
b. Abroad	
2011-2013	Post-Doctoral Fellow- RWTH Aachen University-Inst. of Tech. Thermodynamics
2009-2010	Exchange Ph.D. Student- Yeungnam Univ (South Korea)- World Class Univ. Program Fellow
2007-2011	Ph.D. Student, Old Dominion University, Mech. and Aerospace Eng. Dept.

E. ADMINISTRATIVE EXPERIENCE	
a. In the University	
-	-
b. In other Institutions	
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F. INTERESTED SUBJECTS
Thermodynamics
Fluid Mechanics
Heat Transfer
Experimental Microfluidic Thermal and Flow Systems
Gas Turbines Film Cooling

G. INSTRUCTED COURSES	
a. At Işık University	b. At the Other Institutions
MECT3322 Fundamentals of Thermal Systems	Thermodynamics
MECH4330 Thermo-Fluid Systems Design	Heat Transfer
MECH3322 Heat Transfer	Fluid Mechanics
ENGR2105 Fluid Mechanics	Statics and Dynamics
MECH3613 Internal Combustion Engines	
MECH4380 Applied Fluid Mechanics	

H. NUMBER OF SUPERVISED GRADUATE THESIS	
Master of Science	-
Doctorate	-

I. PUBLICATIONS						
Type	SCI International Journal Papers	Other International Journal Papers	National Referred Journal Papers	International Symposium Papers	National Symposium Papers	Books / Chapters in Books (Translations Incl.)
Numbers	8	-	-	9	-	-
SCI Total Number of Citations	354					
Important Publications						
Karimzadehkhoei M., Yalcin S.E., Sendur K., Menguc M.P., Kosar A., "Heat Transfer Characteristics of Nanofluids in Horizontal Microtubes", <i>Experimental Thermal and Fluid Science</i> , 2015, 67, pp.37-47.						
Ozbey A., Kerimzadehkhoei M., Yalcin S.E., Gozuacik D., Kosar A., "Modeling of ferrofluid magnetic actuation with dynamic magnetic fields in small channels", <i>Microfluid Nanofluid</i> , 2015, 18(3), pp.447-460.						
Yalcin S.E., Sharma A., Qian S., Joo S.W., Baysal O., "On-demand particle enrichment in a microfluidic channel by a locally controlled floating electrode", <i>Sensors and Actuators B, Chemical</i> , 2011, 153(1), pp.277-283.						
Yalcin S.E., Sharma A., Qian S., Joo S.W., Baysal O., "Manipulating particles in microfluidics by floating electrodes", <i>Electrophoresis</i> , 2010, 31(22), pp.3711-3718.						
Ai Y., Yalcin S.E., Gu D., Baysal O., Baumgart H., Qian S., Beskok A., "A low-voltage nano-porous electroosmotic pump", <i>Journal of Colloid and Interface Science</i> , 2010, 350(2), pp.465-470.						
Yalcin S.E., Lee S.Y., Joo S.W., Baysal O., and Qian S., "Electrodifusiophoretic motion of a charged spherical particle in a nanopore", <i>The Journal of Physical Chemistry B</i> , 2010, 114 (11), pp.4082-4093.						
Lee S.Y., Yalcin S.E., Joo S.W., Sharma A., Baysal O., and Qian S., "The effect of axial concentration gradient on electrophoretic motion of a charged spherical particle in a nanopore", <i>Microgravity Science and Technology</i> , 2010, 22, pp.329-338.						

Lee S.Y., Yalcin S.E., Joo S.W., Baysal O., and Qian S., "Diffusiophoretic motion of a charged spherical particle in a nanopore", The Journal of Physical Chemistry B, 2010, 114(19), pp.6437-6446.

Blesinger C., Yalcin S.E., Pauls C., and Bardow A., "Rapid Multicomponent Diffusion and Measurements using Microfluidics" Proceedings of the 3rd European Conference on Microfluidics, Heidelberg, Germany, December 3-5, 2012.

J. RESEARCH EXPERIENCE

Number of Projects	DPT Projects	TÜBİTAK Projects	SANTEZ Projects	BAP Projects	EU Projects	Other Projects
As Supervisor	-	-	-	-	-	-
As Researcher	-	2	-	-	-	3

K. REFERREING

	SCI Journals	Other Journals		Symposiums		R & D Projects		
		National	International	National	International	ARDEB	TEYDEB	International
Numbers	-	-	-	-	-	-	-	-

L. INTELLECTUAL PROPERTIES

Patents	Utility Models	Industrial Designs	Other
-	-	-	-

M. PROFFESIONAL ASSOCIATION MEMBERSHIPS

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N. OTHER USEFUL INFORMATION (if any)

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