



8TH
INTERNATIONAL
ADVANCED TECHNOLOGIES
SYMPOSIUM

ENERGY TECHNOLOGIES

19.10.2017 THURSDAY/PERŞEMBE					
ENERGY SYSTEMS TECHNOLOGIES					
HALL-D			HALL-H		
CHAIR	ID No	ARTICLE TITLE	CHAIR	ARTICLE TITLE	
CHAIR	Prof. Dr. Mehmet ESEN		CHAIR	Prof. Dr. Cengiz YILDIZ	
13.30-14.00	Invited Speaker Asst. Prof. Dr. Salwa Bouadila		395	Çankırı drinking water treatment plant risk analysis Zehra Gülten Altın*, İnci Sevgili, Barış Şimşek, Mustafa Dağ	
13.30-14.00	Invited Speaker Asst. Prof. Dr. Salwa Bouadila		1139	The Determination of the Heat Transmission Factor for Sports and the Determination of the Heat Transmission Factor of the Spinal Oxide Fluid Halil İbrahim Variyenli, Mustafa Bahadır Özdemir, Kemal Özcan*	
14.00-14.15	16	Effect of wavelengths impedance spectroscopy of a vertical parallel junction silicon solar cell under monochromatic illumination Gokhan Sahin*, Genber Kerimli	409	The Effects of Reynolds Number on the laminar flow past two tandem cylinders with High Blockage in a Channel Neslihan Güneş*İrfan Karagoz, Alper Ozalp	
14.15-14.30	20	Experimental Investigation Of The Effect Of Nanoparticle Size on the Performance Of Thermosyphon With Clinoptilolite /Water Nanofluid Emine Yağız Gürbüz*	411	The Effect of Two Arm Mechanism of Oyster Wave Energy Harvesting System Perihan Karaköse*, Ahmet Koca	
14.30-14.45	22	Effect of Modulation Frequency on the Photothermal and Temperature of a vertical parallel silicon solar cell under multispectral illumination Gokhan Sahin*, Genber Kerimli	422	Thermal Management of Portable Electronics with Phase Change Material: Application in Mobile Phone Mustafa Yazıcı* Mehmet Sağlam Mete Avcı, Orhan Aydın	
14.45-15.00	23	Best guess of energy generation forecasts Tümay Solak*	423	Numerical Analysis and Optimization of Shell-Tube Heat Exchangers Ekrem Taçgün*, İ.Gökhan Aksoy	
15.00-15.20	COFEE BREAK			COFEE BREAK	
CHAIR	Prof. Dr. Hakan Fehmi ÖZTOP		CHAIR	Prof. Dr. Yasin VAROL	
15.20-15.35	36	Solar – Hydrogen Hybrid System for Renewable Energy Community Yılsar Devrim*, Kübra Pehlivanoğlu, Ayhan Albostan	25	Experimental and computational analysis of thermal mixing characteristics of a parallel twin jet Besir Kok*	



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15.35-15.50	1032	Areal Data Comparing Of Off-Grid Systems In Solar Energy Systems In Elazig City Aydın Dikici*	445	Investigation of the Effect of Insulation Thickness on Energy Saving by Using Thermography Ertan Buyruk, Ferhat KILINÇ, Koray Karabulut*, Mustafa Caner, Aziz Erge Bostancı
15.50-16.05	424	Numerical Analysis and Optimization of Finned Double Pipe Heat Exchangers Ekrem Taçgün*, İ.Gökhan Aksoy	587	Investigation Of Catalytic Hydrogen Production By Polymer Supported Cu (II)–Schiff Base Complex Dilek Kılınc*
16.05-16.20	89	Biogas and Energy Recovery from Industrial Wastewater: A Case Study for Dairy Industry Pelin Yapıcıoğlu*, Ayşe Filibeli	463	Experimental and Numerical Investigation of the Effect of Rooftop on the Flow Characteristic Between Two Buildings Deniz Gölbaşı, Ertan Buyruk, Besir Sahin, Koray Karabulut*, Doğan Alnak
16.20-16.35	621	Extended Burnup With Grade Plutonium In Candu Reactor Sinem Uzun*, Adem Acır	471	Numerical Investigation of Flow and Heat Transfer on Half Spheres In a Channel Engin Alnak*, Ferhat Koca, Koray Karabulut
16.35-16.50	90	Investigation of the Potential of Sewage Sludge as a Renewable Energy Source Pelin Yapıcıoğlu*, Özlem Demir	629	Numerical Investigation of Varying Temperature Values Depending on Height of Photovoltaic Modules Abdullah Kapicioglu*, Hikmet Esen, Koray Karabulut, Ferhat Koca
20.10.2017 FRIDAY/CUMA				
	HALL-D			HALL-H
CHAIR	Prof. Dr. Ahmet KOCA		CHAIR	Assoc. Prof. Dr. Filiz ÖZGEN
08.30-08.45	486	Effect of bore liquid composition on the structure and gas transfer performance of polyvinylidene fluoride (PVDF) hollow fiber membranes by wet spinning Yunus Aksoy*	446	Thermodynamic Analysis Of A Solar Energy Based Biomass Gasification Process Fatih Yılmaz*, Murat Öztürk, Reşat Selbaş
08.45-09.00	508	Optimum Model Determination For Solar Radiaton Coming On Horizontal Surface Of Uşak Province Mustafa Ersöz*	437	Investigation of Particle Entrainment Characteristics of a Swirl Jet Impinging on Granular Layers Erman Çelik, İrfan Karagoz*
09.00-09.15	94	The Experimental Study of Nanofluids on a Flat-Plate Solar Collector Nese BUDAK, Halit Lutfi Yucel, Cengiz Yıldız*, Mehmet Kemal Isik	228	Beneficiation from Coal Washing Tailings and Biomass in Active Carbon and Humate mud production Yıldırım Tosun*



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09.15-09.30	50	A New Approach for Determining of Heat Load in Buildings Kazım Kumaş, Arzu ŞENCAN ŞAHİN*, Erkan Dikmen	253	The estimation of Wind Power with Feed-Forward Artificial Neural Network Bulent Yanıktepe*, Sakir Tasdemir, A.Burak Güher
09.30-09.45	527	Optimization of solar dish thermal efficiency for steam generation Safa Skouri*, Karima Ghazouani, Salwa Bouadila	534	Investigation of The Effect Of Building Direction on The Cooling Load Calculations Mustafa Ersöz*, Abudllah Yıldız
09.45-10.00	140	An Alternative Fuel For Internal Combustion Engines: Wood Rasim Behçet, Emre Gönel*, Faruk Oral	539	Thermodynamic analysis of geothermal based trigeneration system Alla Ibrahim*, Hasan Ozcan
10.00-10.20	COFEE BREAK			COFEE BREAK
CHAIR	Assoc. Prof. Dr. Nevin ÇELİK		CHAIR	Assoc. Prof. Dr. Meral ÖZEL
10.20-10.35	141	The Energy Evaluation Of The City Of Malatya's Animal Waste Potential Rasim Behçet*, Emre Gönel, Apdulmutalip Şahinaslan, Faruk Oral	573	Design and Performance Analysis of a Virtual Body Mini Cyclone M.Erman Çalışkan, İrfan Karagoz*, Atakan Avcı, Ali Sürmen
10.35-10.50	169	Self-Anti-Reflective Density-Modulated Thin Films by HIPS Technique Filiz Keleş*, Emad Badrdeen, Tansel Karabacak	585	Natural Convection Heat Transfer in Linearly Heated or Cooled Trapezoidal Enclosure Birol Şahin*
10.50-11.05	177	Thermodynamic Performance Assessment Of A Solar Based Heat Pump System For Heating Application Fatih Yılmaz, Reşat Selbaş*, Murat Öztürk	597	Flow Boiling Characteristics in a Single Rectangular Minichannel Burak Markal*, Ayse Candan, Orhan Aydın, Mete Avcı
11.05-11.20	687	Fuzzy Logic Based Solar Radiation Calculation Method for Reflective Surface Veysel Çoban*	622	Effect of the Condenser Pressure of Thermal Power Plant Efficiency Sinem Uzun*, Adem Acir
11.20-11.35	214	Synthesis, Characterization and Thermodynamic Analysis of New Metal Nanocatalysts for Applicability to Direct Alcohol Fuel Pills Bahdişen Gezer*, Ufuk Ayhan, Ramazan Saraç	779	A 3-D CFD Modelling of Different Flow Types for an Anode Supported Hydrogen Fed SOFC Muhittin Bilgili*, Mehmet Görürılmaz
11.35-11.50	227	Thermal Decomposition Kinetics of Some Waste Polymers Ramazan Orhan*	651	Thermodynamic analysis of R1234yf and R1234ze as R134a replacements in single stage vapor compression refrigeration system



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				Arzu Şencan Şahin*		
11.50-13.30	LUNCH BREAK				LUNCH BREAK	
CHAIR	Asst. Prof. Dr. Emre TURGUT			CHAIR	Prof. Dr. Ahmet KOCA	
13.30-13.45	279	Kinetic Investigation of Retention of SO ₂ With Waste Ulexite Ore in Water Özlem Karagöz*, Mehmet Çopur, M. Muhtar Kocakerim	745	Biochar in Fuel Cell Gökçen Akgül*, Zehra Turan		
13.45-14.00	229	Microwave ignited combustion of Coal with maize slush and waste cardboard in modified Tube furnace Yıldırım Tosun*	743	Use in Fuel Cells And Vehicles Adem Yılmaz*, Sinan Ünvar, Abdülkadir Koçer		
14.00-14.15	250	Optimization of Duct Curtain Angle for Oscillating Water Column Gokhan Ozdamar*, Yeliz Pekbey, Aydogan Ozdamar	769	Unsteady mixed convection heat transfer and fluid flow from isothermal horizontal triangular cylinders subjected to upward cross flow Zekeriya Altaç, Zerrin Sert, Necati Mahir*, Çisil Timuralp		
14.15-14.30	252	Evaluation of Estimation of Wind Power Potential in Backpropagation Networks in the Frame of Different Normalization Techniques Bulent Yaniktepe*, Sakir Tasdemir, A.Burak Güher	350	Investigation Of Solar Energy Potential Of Amasya Province And Amasya University Example Suat Şahin*, Unal Kurt		
14.30-14.45	742	The Effect Of The Temperature In The Hydrolysis Reactor On The Production Of Electric Energy In The Fuel Cell-Boron Combined System A. Yılmaz*, S. Şevik	784	3-D Modelling of a Single PEM Fuel Cell at the Different Stoichiometric Conditions Muhittin Bilgili*		
14.45-15.00	293	Estimation of Wind power density based on the Weibull distribution parameters using different methods İlyas Aladag*, Bulent Yaniktepe	787	Residential Green Building Design and Energy Analysis in Malatya Apdulmutalip Şahinaslan*, İ.Gökhan Aksoy		
15.00-15.20	COFFEE BREAK				COFFEE BREAK	
CHAIR	Assoc. Prof. Dr. Resul ÇÖTELİ			CHAIR	Assoc. Prof. Dr. Rasim BEHÇET	
15.20-15.35	292	Determining of Weibull Distribution Parameters for a Region İlyas Aladag*, Bulent YANIKTEPE	800	An Assessment of Lignocellulosic Wastes: Thermal Decomposition Behavior And Modeling of Tea Pulp At Non-Isothermal Conditions Şeyda Taşar*, Ahmet Özer		
15.35-15.50	295	Exergo-Economic Analysis of Air and Ground Source Heat Pumps Using Different Refrigerants in Kütahya Region,	796	Weibull Distribution Parameter Determination for Wind Speed Profile in Hasan Polatkan Airport		



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		Turkey Oguz Ozan YOLCAN*		Ahmet Süzer*, Aziz Kaba, Ümmühan Başaran Filik
15.50-16.05	300	Design of a PID Digital Controlled Convective Type Drying System Asım Balbay*, Yunus Emre Gonulacar	389	Risk assessment in a Thermal Power Plant Using Fine-Kinney Analysis Method Zehra Gülten Altın*, Mustafa Dağ, Barış Şimşek
16.05-16.20	303	Numerical Investigation of the Effect of Plate Type Turbulators on Heat Enhancement Eşref Baysal*	798	Control and Estimation of a Wind Turbine System Ece Yurdusevimli Metin*, Aziz Kaba
16.20-16.35	688	Comparison of Fuzzy Decision-Making Models in Solar Power Plant Selection Veysel Çoban*	990	Kameriyeye Kurulan Güneş Enerjisi Üretimi ve Tüketimi Sırasında Verilerin Kablosuz Olarak Aktarılması ve İncelenmesi Serkan Aydın*, Hakan Yüksel, Neşe Baysal
16.35-16.50	586	Numerical Simulation of Natural Convection Heat Transfer in a Square Porous Cavity Biröl Şahin*	803	Application Of Flywheel And Ultracapacitor Energy Storage Systems In Hybrid And Electric Vehicles In Regenerative Braking Mode Engin Ozdemir*, Koray Erhan, Murat Ayaz
21.10.2017 SATURDAY/CUMARTESİ				
	HALL-D			HALL-H
CHAIR	Assoc. Prof. Dr. Asım BALBAY		CHAIR	Assoc. Prof. Dr. Filiz ÖZGEN
08.30-08.45	322	Determination of Casting-Mold Interface Heat Transfer Coefficient (IHTC) in Die Casting Process by Gene-Feed Programming and Preparation of Package Program Murat Kuru*, Bekir Aksoy, Onur Sevli	869	The Effect of Different Tilt Angles on a PV/T Collector Eda Bakır*
08.45-09.00	337	Generating Electrical Energy by Using Air Flow Occurrence on Horizontal Wind Turbines in Underground Metros; A Case Study in London Yasin Furkan Gorgulu*	970	An analysis of a thermal energy storage system for continuous power generation from solar energy Ahmet Özsoy*, Mehmet Nebi Yıldırım
09.00-09.15	339	TG Analysis and Temperature Distributions in the Well during Baking of Buryan Kebab by Traditional Cooking Method Asım Balbay*, Yunus Emre Gonulacar	1012	Size Optimization of Hybrid Photovoltaic-Wind Power Generating System: A Case Study of Pınarhisar METEM , Turkey Sefer Ayan*, Hayrettin Toylan
09.15-09.30	385	Heat Transfer Augmentation in Channels with Vortex	1031	Numerical Investigation on Heat Transfer Enhancement of Twisted



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		Generators Placed on the Upper and Lower Surfaces Mehmet Dogan*, Atila Igci		Tape Insert in Pipe Taha Tuna Goksu*, Fatih Dinc
09.30-09.45	391	Soap and oil industry of waste waters treatment and factory applications Zehra Gülten Altın*	1098	A Sample Wind Turbine Design To Meet The Electrical Needs In Harput Sinem Kilickap*, Mehmet Duranay, Cengiz Yıldız
09.45-10.00	352	Investigation Of The Effects Of Climate Conditions On Production In Solar Power Plants Suat Şahin*, Unal Kurt	969	Estimation About Electricity Generation of Photovoltaic Panel by Using Artificial Neural Networks Sultan Mehtap İzmirli Ayan*, Hayrettin Toylan
10.00-10.20	COFEE BREAK			COFEE BREAK
CHAIR	Asst. Prof. Dr. Aydın DİKİCİ		CHAIR	Prof. Dr. Yasin VAROL
10.20-10.35	386	Experimental Research of Convective Heat Transfer for Graphene-Oxide Nanofluid In a Straight Circular Tube Koray Karabulut*, Ertan Buyruk, Ferhat Kılıç	940	Rooftop Solar Power Plant Design and Feasibility Study Samet Toprak*, Yasaman Behboudi, Altuğ Bozkurt
10.35-10.50	789	Cost Analysis of a Photovoltaic System Used for Energy Requirement of a Facility in Malatya Apdulmutalip Şahinaslan*	943	Synthesis of sepiolite and kaolinite added, thermally crosslinked SPEEK (sulfonated poly ether ether ketone) inorganic-organic composite membranes for proton exchange membrane fuel cell applications Aygün Çalı*
10.50-11.05	392	An Experimental Study for Heat Transfer Enhancement of Graphene Nanoribbon Nanofluid In an Automobile Radiator Ferhat Kılıç*, Koray Karabulut, Ertan Buyruk	951	CFD modelling of an ejector using steam as the working fluid Alper Karakoca*
11.05-11.20	882	Energy and Exergy Analyses of Elaziğ Sugar Plant Kutbettin Aydemir, Hakan Tutumlu*, Mehmet Duranay	967	Experimental investigation of the thermal performance of the flattened wickless heat pipe against to gravity Ahmet Özsoy*
11.20-11.35	1066	Synthesis and characterisation of molybdenum oxide for gasification of formaldehyde in supercritical water Ayten Ateş*	26	Investigating changes in the efficiency of the collector as a result of exposure to sudden temperature changes of the glass used in photovoltaic collectors Mert Gürtürk*, Hüseyin Benli
11.35-11.50	15	Co-Liquefaction of Elbistan Lignite with Poplar Sawdust Cemil koyunoğlu, Hüseyin Karaca*	1046	Gasification of formaldehyde into hydrogen and methane on zinc oxide catalyst in supercritical water



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				Ayten Ateş*	
11.50-13.30		LUNCH BREAK		LUNCH BREAK	
CHAIR	Prof. Dr. Mehmet ESEN			CHAIR	Asst. Prof. Dr. Koray KARABULUT
13.30-13.45	105	Application of full factorial design for multiple response optimization of vegetable oils methanolysis via homogeneous catalysis Yasin Yücel*	750	Numerical investigation of the effect of the position of a barrier placed in a square cavity on naturel convection and heat transfer Filiz ÖZGEN*, Yasin Varol	
13.45-14.00	31	Energy and Exergy Analysis of the Internal Combustion Engine in a Cogeneration Plant Mert Gürtürk*	138	PEM Fuel Cell-Battery Hybrid Power System Habip Şahin*	
14.00-14.15	4	Fuel and Waste Management of Nuclear Power Plants to be Established in Turkey Ahmet Polatoğlu*	751	Design of An Experimental Setup to Examine Natural Convection Heat Transfer Filiz Özgen*, Yasin Varol	
14.15-14.30	1076	Heat Transfer and Friction Factor of Pin Fins Inserted in the Horizontal Concentric Tubes Emre Turgut*	206	Cost and Contribution to Electricity Generation of Akkuyu Nuclear Power Plant Ahmet Polatoğlu*	
14.30-14.45	1073	The Simulation of Passive Cooling Using Ground Heat Exchanger - Toprak Isı Değişiricisi ile Pasif Soğutma İşleminin Benzetimi Erkan Duman*, Hakan Tutumlu, Mustafa İnallı	45	Investigation of phase change periods of the PCM using in energy storage for cooling a container room Mert Gürtürk*, Hikmet Esen	
14.45-15.00	918	Comparison of Efficiency Flat Plate Collectors and Parabolic Solar Collectors of Solar Energy Heating System Using Sodium Acetate Sercan Güngör*, Ahmet Kabul	106	Determination and optimization of critical variables that affected immobilization of lipase enzymes onto loofah sponge and wood chips by chemometric methods Yasin Yücel*	
15.00-15.15	1127	Microbial Fuel Cell Manufacture With Pine Needles Nurettin ÇEK*	594	Solar powered boat design İsmet Kandilli, Ercüment Karakaş, Melih Kuncan *	