



# CONFERENCE PROGRAM

	<b>Sunday, 3 May 2026</b> <b>14:00-16:00</b> <b>Registration</b>
	<b>Location: Besiktas Campus, Yildiz Technical University, Istanbul</b>  <a href="https://maps.app.goo.gl/9f5NpSykZyGFK7oLA">https://maps.app.goo.gl/9f5NpSykZyGFK7oLA</a>

<b>Monday – May 4, 2026</b>	
<b>Online Session Link (4 May -Opening Speeches)</b> <a href="https://online.yildiz.edu.tr/joinmeeting?meetingid=23bf9226-1762-4f33-ba7d-9df3e8cf1968">https://online.yildiz.edu.tr/joinmeeting?meetingid=23bf9226-1762-4f33-ba7d-9df3e8cf1968</a>	
<b>Conference Registration (9:00-16:00)</b> <b>Location: Auditorium, Besiktas Campus, Yildiz Technical University</b>	
<b>Opening Talks</b> <b>Moderator: Hasan Heperkan</b>	
<b>10:00 –11:05</b>	<b>10:00-10:05</b> <b>Dr. Nader Javani</b> <b>Conference Co-Chair</b>
	<b>10:05-10:10</b> <b>Prof. Dr. Zehra Yumurtacı</b> <b>Dekan, Faculty of Mechanical Engineering</b>
	<b>10:10-10:20</b> <b>Prof. Dr. Eyup Debik</b> <b>Rector, Yildiz Technical University</b>
	<b>10:20-11:00</b> <b>Keynote Speaker: Prof. Dr. Veysel Eroğlu</b>
	<b>11:00-11:05</b> <b>Awards and Appreciations</b>
<b>Coffee Break</b> <b>11:05-11:20</b>	
<b>11:20 -12:40</b>	<b>11:20-12:00</b> <b>Keynote Speaker: Prof. Dr. Feridun Hamdullahpur</b> <b>Title: How Energy Technologies Evolve: From Fundamental Science to Policy and Governance</b>
	<b>12:00-12:40</b> <b>Keynote Speaker: Prof. Dr. Ibrahim Dincer</b> <b>Title: Integrated Energy Systems for Sustainable Communities</b>
<b>12:40- 13:40</b>	

## Lunch

## Monday – May 4, 2026

Session Chair: Dr. Azzam Abu Rayash

13:40 – 15:50	13:40- 14:20 Keynote Speaker: Prof. Dr. Alvin Culaba Title: Energy storage development in the Philippines
	14:20- 14:50 Invited Speaker: Prof. Dr. Tanay Sıdkı Uyar Title: Farming of the Future: The Frontier Agriculture Taşarası Village Project of EUROSOLAR Türkiye
	14:50- 15:20 Invited Speaker: Prof. Dr. Muhammad Aziz Title: Advanced CO2-Free Hydrogen Production with Chemical Looping Technology and Its Effective Absorption-based Storage Adopting Novel Metamaterial,
	15:20- 15:50 Invited Speaker: Dr. Serdar Akca Title: Land Engine Cooling System Marinisation Process for On-board Genset Applications
15:50- 16:10 Coffee Break	

## Session 1, 3 (Including Opening and Keynote Speeches)

<https://online.yildiz.edu.tr/joinmeeting?meetingid=23bf9226-1762-4f33-ba7d-9df3e8cf1968>

## Session 2, 4

<https://online.yildiz.edu.tr/joinmeeting?meetingid=c4a78f32-55f6-4c65-97b3-2e26a10ac31b>

## Parallel Sessions

16:10 – 17:40	Session 1: Hydrogen Technologies Auditorium	Session 2: Renewable Energy Systems Hall B
	Session Chair: Azzam Abu Rayash	Session Chair: Düzgün Arslan
#137 Process Optimization and Energy Integration Strategies for Ammonia Cracking Plants, <i>Karimi, Iftekhar A; Vo, Chi Hung</i>	#37 Clean Energy Transition from Diesel to Electric in a Concrete Recycling Unit, <i>Ali, Nishab</i>	
#139 Thermodynamic Modeling of Calcium Oxide-Enhanced Steam Gasification of Wood Biomass for Hydrogen-Rich Syngas Production <i>Naqvi, Salman; Shahbaz, Muhammad; Figen, Aysel Kantürk</i>	#09 Renewable Solar Energy Source; A Solution to Epileptic Power Supply in Mubi, <i>Danladi, Ali</i>	
#109 Innovative Approaches in Geothermal Energy: From Conventional Systems to Next-Generation Technologies, <i>Haklıdır, Fusun</i>	#107 Energy and exergy analysis of diesel engine in Tekneçik Thermal Power Plant, <i>Sertkaya, Gulsun</i>	
	#126 Sustainable Resource Education and Stakeholder Responsibilities, <i>Arslan, Düzgün</i>	

<p><b>#36</b> Low-Temperature Planar Sodium Halide Eutectic Batteries for Stationary Energy Storage, <i>Brancato, Benedetta; Frusteri, Leone; Mastronardo, Ivan; D'Urso, Claudia</i></p> <p><b>#144</b> CO2 Re-Injection at the Kizildere Geothermal Reservoir: Procedure and Observed Effects, <i>Hazar, Tuğrul</i></p> <p><b>#45</b> Development of A Computational Model for Methane Pyrolysis in a Microwave Plasma Flow Using Ansys Fluent, <i>Agatanova, Alina</i></p>	<p><b>#130</b> Economic Analysis of P2P Energy Trading in Microgrids Using Hyperledger Fabric Blockchain, <i>Tarakçı, Elif</i></p> <p><b>#138</b> PV Surplus Utilization Via Vehicle-To-Building (V2b) Charging in A Commercial Building: A Seasonal Economic Analysis for Ankara, Turkey, <i>Ceylan, Ceren; Bulanık Durmuş, Gizem Nur</i></p>
<p><b>17:40- 17:50</b> Coffee Break</p>	

Monday 4 MAY 2026			
<b>17:50 – 18:50</b>	Session 3: Thermofluids Auditorium	Session 4: Renewable Energy Systems Hall B	
	Session Chair: Nader Javani	Session Chair: Levent Yuksek	
	<p><b>#46</b> Determination of The Thermodynamic Diffusion Window in Hydrogen Storage Materials, <i>Ospanova, Zhanna</i></p> <p><b>#57</b> Carbon Electrocatalytic Material-Modified Electrodes for Hydrogen Production in Electrolyzer, <i>Goren, Aysegul; Dincer, Ibrahim</i></p> <p><b>#114</b> Investigation of Thermal Conductivity Activated Carbon Fibers for Adsorptive Cooling of Photoelectric Pannels and Water Harwesting, <i>Grekoval, Alexandra; Tokarev, Mikhail; Cherpakova, Anastasya; Gordeeva, Larisa</i></p> <p><b>#127</b> Design and Assessment of a Marine Waste-Heat-Driven System for Onboard Ammonia Production, <i>Demir, Murat Emre</i></p>	<p><b>#108</b> Natural Hydrogen: Türkiye's Untapped Potential, <i>Haklıdır, Fusun; Yoldemir, Ogun</i></p> <p><b>#13</b> GPREDICT: An Edge IoT Sensor Fusion Framework for Predictive Sustainability Intelligence in Geothermal Reservoirs and Surface Equipment, <i>Idris, Rohayati</i></p> <p><b>#91</b> Dynamic Energy Optimization of Formic Acid Production for Hydrogen-Co2 Value Chain, <i>Al, Kübra; Gökçek, Tayfur; Kantürk Figen, Aysel</i></p> <p><b>#117</b> Production and Evaluation of Bio-Kerosene (SBK) From Coconut Oil: Performance in Jet A-1 Blends, <i>Izza, Hidayat</i></p> <p><b>#32</b> Discretization of The Differential Equation by A Piecewise Constant Approximation and Investigating Flip Bifurcation, <i>Gurcan, Fuat</i></p>	
<p><b>19:00- 20:30</b> Conference Dinner</p>			

**Poster session-1**

11:00 - 18:00

**#25** The Effects of Plasma on Gasifying Solid Polyethylene for the Production of Hydrogen*Azmi, Muhammad; Nugroho, Rusdan; Sopandi, Talitha; Hongkhamdee, Chanathip; Lin, Jhe-Kai; Cahyono, Agung; Cheng, Yu; Wang, Wei-Cheng***#41** Hydrogen Storage Capacity of Cr- And V- Decorated Tin Carbide Monolayers Doped with Borophenes: A DFT Study*Montoya García, Ángel; Caraveo, Kevin; Miranda, Alvaro; Salazar, Fernando; Perez, Luis; Cruz Irisson, Miguel***#44** Industrial Energy Systems: Load Analysis, Kiliç, Aykut**#54** Theoretical Modeling of Porous Silicon Decorated with Nickel for Hydrogen Adsorption*Luz Bautista, Jorge Luis; Trejo Baños, Alejandro; De Santiago Varela, Francisco; Cruz Irisson, Miguel***#73** Influence of Reactor Configuration and Steam Delivery on Thermochemical Hydrogen Production Over Sr–Mg Co-Doped Lamno<sub>3</sub>*Al Batarni, Ghena; Almomani, Fares***#77** Enhancement of Thermal Performance in Microchannels Using Aligned Fan-Shaped Ribs and Graphene Nanofluids*Lee, Yee Ting; Lee, Chun-Ying; Shaw, Jin-Siang***#113** Modeling and Simulation of an Alkaline Water Electrolysis System in Aspen Plus for Green Hydrogen Production*Oliveira, Weider; Amaral, Edgar; Sophy-Mahfoudi, Nadjba***#62** A Study on the Urban Microclimatic Impact of Building Arrangements of Rooftop Photovoltaics Integrated with Greenery, Su, Ying-ming; Dung, Man-jou**19:00- 20:30**

Conference Dinner

<b>Tuesday – May 5, 2026</b>	
<b>Online Session Link (5 May -Invited Speeches)</b>	
<a href="https://online.yildiz.edu.tr/joinmeeting?meetingid=9a961824-cf53-4a9a-a661-478ffbea876c">https://online.yildiz.edu.tr/joinmeeting?meetingid=9a961824-cf53-4a9a-a661-478ffbea876c</a>	
<b>9:00 – 11:10</b>	<b>Session Chair: Dr. Yusuf Bicer</b>
	9:00-9:40 Keynote Speaker: Prof. Dr. Jianlei Nu Title: The Role and Application Modes of Thermal Energy Storage Technology in the Era of New Energy
	9:40-10:10 Invited Speaker: Prof. Dr. Ioan Iordache Title: About The Role of Research and Testing on Energy Systems, Examples from ICMET Craiova, Romania
	10:10-10:40 Invited Speaker: Dr. Reza Vatankhah Barenji Title: TBA
	10:40-11:10 Invited Speaker: Prof. Dr. Haitham S.M. Ramadan Title: Wires or Molecules? Rethinking Energy Transport in the Era of HVDC lines and Hydrogen Pipelines
<b>11:10-11:20</b> <b>Coffee Break</b>	

Tuesday – May 5, 2026	
Session 5, 7, 9 <a href="https://online.yildiz.edu.tr/joinmeeting?meetingid=9a961824-ef53-4a9a-a661-478ffbea876c">https://online.yildiz.edu.tr/joinmeeting?meetingid=9a961824-ef53-4a9a-a661-478ffbea876c</a>	Session 6, 8, 10 <a href="https://online.yildiz.edu.tr/joinmeeting?meetingid=99aae5fe-fe79-445a-97d1-0cd0918bdd09">https://online.yildiz.edu.tr/joinmeeting?meetingid=99aae5fe-fe79-445a-97d1-0cd0918bdd09</a>
<b>Session 5: Energy Storage Systems Auditorium</b>	<b>Session 6: Renewable Energy Systems Hall B</b>
Session Chair: Bedri Onur Küçükyildirim	Session Chair: Buğrayhan Biçkici
11:20 - 12:35	<p><b>#78</b> Impact of Hydrogen Added at Lower Flammability Limits on Progress in Co-Combustion with Diesel Fuel in the Compression Ignition Engine, <i>Juknelevicius, Romualdas; Szwaja, Stanislaw; Pukalskas, Saugirdas; Rimkus, Alfredas</i></p> <p><b>#55</b> Degradation-Aware Operational Assessment of Battery Energy Storage Under Multi-Service Cycling Using Rainflow Analysis, <i>Iqbal, Muhammad Saad</i></p> <p><b>#02</b> Experimental Study of Energy Storage Comparison between Super-Capacitors vs. Batteries, <i>Ibrahim, Marwa</i></p> <p><b>#63</b> Voltage Stability Assessment of Residential Low-Voltage Distribution Feeders Under High Rooftop PV Penetration, <i>Iqbal, Muhammad Saad</i></p> <p><b>#131</b> Dust-Storm-Aware Adaptive Interleaved Boost Converter with Dynamic Switching Frequency Modulation for Extended IGBT Lifetime in Arid-Climate PV Systems, <i>Bou-Rabee, Dr Mohammed</i></p> <p><b>#101</b> Fabrication and Performance Tests of ZnO/CuO P-N Heterojunction Thin Films for Photoelectrochemical Hydrogen Production, <i>Sahin, Sule; Dincer, Ibrahim</i></p>
	<p><b>#16</b> Influence of Thermal Annealing on The Structural Properties of Sn-Doped Wo3 Thin Films, <i>Gana, Bouchra</i></p> <p><b>#11</b> Preparation and Structural Characterization of Cu-Doped Nio Thin Films for Photovoltaic Applications, <i>Hamdadou, Nasr-Eddine</i></p> <p><b>#15</b> Optical Characterization for Advanced Optoelectronics: Niobium-Antimony Codoped ZnO-SnO<sub>2</sub> Heterojunction on SnO<sub>2</sub> Interlayer, <i>Sara, Bouziane</i></p> <p><b>#87</b> Energy Analysis of Parabolic Trough Photovoltaic Solar Collector Integrated Kaline Cycle, <i>Kiliçarslan, Ali; Okten, Merve</i></p> <p><b>#145</b> Energy Analysis of Four-Stage Rankine Cycles with and Without Interheating Based on Turbine Inlet Temperature, <i>Kiliçarslan, Ali; Kalender, Tufan</i></p> <p><b>#116</b> Techno-Economic Analysis of a Renewable-Powered Floating Storage and Regasification Unit for Ammonia and Hydrogen Fuels, <i>Andriani, Dindha; Banu, Aliya; Bicer, Yusuf</i></p>
12:35-13:30 Lunch	

**Online Session Link (5 May -Invited Speeches)**

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**Tuesday – May 5, 2026**

<b>13:30 – 15:30</b>	<b>Session Chair: Yasin Karagöz</b>
	13:30- 14:00 Invited Speaker: Dr. Emre Teksan Title: The Evaluation of Energy Sources Based on Their Intended Use
	14:00-14:30 Invited Speaker: Kerim Kenan Kiremit Title: The Evaluation of Energy Sources Based on Their Intended Use
	14:30-15:00 Invited Speaker: Ersun Gurkan Title: Energy Efficiency and Sustainability in Industrial Processes That Use Steam
	15:00–15:30 Invited Speaker: Hakan Acikel Title: Powering the Maritime Transition with BioLNG
<b>15:30-15:45</b> <b>Coffee Break</b>	

<b>Tuesday –May 5, 2026</b>		
<b>15:45 - 17:15</b>	<b>Session 7: Sustainable Energy Systems Auditorium</b>	<b>Session 8: Energy Technologies and Applications Hall B</b>
	Session Chair: Birgül Aşçıoğlu Temiztaş	Session Chair: Ercan Erturk
	<b>#85</b> Comparative Performance and Emissions Analysis of Diesel, Hydrogen–Diesel, And Methane–Diesel Combustion, <i>Akhtar, Muhammad; Asfand, Faisal; Imran Khan, Muhammad; Mishra, Rakesh</i>	<b>#38</b> Hybrid Composite Electrodes Based on Ti <sub>3</sub> C <sub>2</sub> Two-Dimensional Materials for Smart Soft Systems, <i>Ali, Syed Sheraz</i>
	<b>#146</b> Assessment of Ammonia Substitution in Compression Ignition Engines, <i>Akhtar, Muhammad; Asfand, Faisal; Khan, M. Imran; Mishra, Rakesh</i>	<b>#23</b> Hydrogeochemical Characteristics of The Hot Springs in The Maranda-Kawende Geothermal System, <i>Hastuti, Nofriza</i>
	<b>#28</b> Biodiesel Production from Waste Frying Oil: Process Optimization and Evaluation of Drying Methods, <i>Berrama, Tarek Ibnou Ziad</i>	<b>#213</b> Thermal-Hydraulic Performance of Strut-Based Lattice Fins for Air-Cooled Li-Ion Battery Applications, <i>Genç, Seydi Battal; Sarper, Buğra; Dagidir, Kayhan; Müftüoğulları, Ali</i>
	<b>#30</b> Impact of Physics-Informed Features on Neural Network Complexity for Li-ion Battery Voltage Prediction in Electric Vertical Takeoff and Landing Aircrafts, <i>Ipek, Eymen</i>	<b>#214</b> A Three-Dimensional Numerical Modeling Approach for Pem Water Electrolyzers: A Case Study, <i>Dagidir, Kayhan; Çelik, Selahattin</i>
	<b>#82</b> Hydrogen-Supported Control Strategy for Islanded Microgrids with Renewable Energy Sources, <i>Yabar, Nermin; Kılıç, Heybet; Haydaroğlu, Cem; Çelikdemir, Soner</i>	<b>#121</b> Super-Twisting Sliding Mode Control for Robust Power Allocation in Hybrid Energy Storage Systems, <i>Çakanel, Ahmet</i>
	<b>#143</b> Prediction of Voltage and Current in A Pem Fuel Cell Under Dynamic Load Ramping Using Machine Learning Models, <i>Barmota, Deepak</i>	<b>#169</b> Secure Web-Based File Sharing with Machine Learning and Anomaly Detection, <i>Jaya Sai Kumar, Dasari; Sasank, Boddu</i>

#171 Hydrogen Adsorption on Bio-pitch Based Porous Carbon Foam, <i>Yıldız, Ağah</i>	#216 Graphene-Engineered Lithium Titanate Anodes for High-Rate Lithium-Ion Batteries: Performance Enhancement and Kinetic Improvement, <i>Elham Hasani, Pouria Ahmadi, Nader Javani</i>
<b>17:15-17:30</b> <b>Coffee Break</b>	

Tuesday –May 5, 2026		
	Session 9: Thermofluids Auditorium	Session 10: Hydrogen Technologies Hall B
	Session Chair: Ercan Erturk	Session Chair: Abdulkerim Okbaz
<b>17:30 – 19:15</b>	#111 Calculation of Crude Oil Temperature in a Pipeline Under Non-Stationary Conditions, <i>Bossinov, Daniyar</i>	#60 Techno-Economic Analysis of Onsite Energy and Hydrogen Options for Data Centers, <i>Temiz, Mert; Dincer, Ibrahim</i>
	#106 Evaluation of Reusing Fired Clay Waste to Improve the Mechanical and Thermal Properties of Fired Clay Bricks, <i>Hfaiedh, Yosra; Hachem, Houda; Mihoubi, Daoued</i>	#120 Comparative Evaluation of Low-Cost Metallic Cathodes for A Simplified Formic Acid Fuel Cell Under Varying Operating Temperature, <i>Sozbi, Omer Refik; Dincer, Ibrahim</i>
	#125 Performance Improvement of Electric Injera Baking Pan (Mitad), <i>Hassen, Dr. Abdulkadir</i>	#33 Fault Detection for Non-Linear Model Based on Takagi Sugeno Observer, <i>Lotfi, Moussaoui</i>
	#207 A Decentralized Multi-Agent System for Intelligent Energy Management in Smart Homes Using Simulation-in-the-Loop, <i>Khoshgoftar, Sina; Barenji, Reza; Khalid, Azfar</i>	#76 Degradation of Prefabricated Structures by Solar Energy in Carbonate Environments, <i>Ben Ammar, Ben Khadda</i>
	#227 Heterogeneous Second-Life Stationary Energy Storage Systems: An Agentic-AI Digital Twin Framework, <i>Arunasiri, Rajapakse; Kian, Ramez; Erdogan, Nuh; Barenji, Reza</i>	#188 Thermal and Hydraulic Performance of a Liquid-Cooled Battery Thermal Management System with Progressively Increasing Contact Surface Area, <i>Sarper, Buğra</i>
	#07 The Computational Fluid Dynamics (CFD) Modeling of Properties of the Kuyucak (Eskisehir) Dolomite Limestones, <i>Daloğlu, Gülnaz; Japbarov, Azizjan; Köten, Hasan</i>	#189 Numerical Investigation of a Tec Integrated Liquid-Cooled Btms: Effect Of Tec Temperature on Thermal Performance, <i>Sarper, Buğra</i>
	#08 Development of a Solar-Powered Water Pumping System for Sustainable Irrigation in Arid Regions of Iraq: A Mechanical Engineering Approach, <i>Al Doori, Wadhah Hussein; Hussien, Ali Mohammed; Köten, Hasan</i>	#52 Optimizing Ozone Dose to Enhance Dark Fermentative Biohydrogen Production from Waste-Activated Sludge, <i>Ibrahim Ehab; Almomani Fares</i>
	#04 Optimizing the Sustainability of Renewable Energy Systems Using Artificial Intelligence Technologies-Review, <i>El Berry, Amal</i>	#230 Energy and Exergy Analyses of Htr-Pm Reactor Nuclear Power Plant, <i>AlZahrani, Abdullah; Almalki, Naief</i>

10:00 - 18:00	<b>Poster session-2</b>
	#90 Experimental Assessment of Charging-Duration Control in a Hybrid Residential Heating System with Stratified Thermal Storage, <i>Alotoom, Awni</i>
	#102 Comparative Numerical Study of Straight, Stepped, and Triangular Fin Configurations for Heat Transfer Enhancement Using PCM, <i>Nebballi, Rachid</i>
	#122 Treatment of Sludge from The Industrial Zone Haoud Berkaoui Using Biochar from Date Pits in Southern Alger, <i>Aloui Nabiha, Ladjel Segni, Touggourt Sara</i>
	#124 Experimental Investigation of Mirror Angle Influence on Rooftop-Mounted Horizontal Bifacial PV Module, <i>Aksoz, Zafer Yavuz; Yasan, Oguzkagan; Yeni, Ozenc Baran; Kaya, Suleyman Emre</i>
#198 Thermal Performance Comparison of Cooling Architectures for Internal Combustion Marine Engines, <i>Topcu, Dincer; Cangoz, Aysu; Orman, Emre</i>	

Wednesday – May 6, 2026	
Session 11, 13, 15, 18, 21 <a href="https://online.yildiz.edu.tr/joinmeeting?meetingid=f445c1f3-6390-4c76-91cd-24cfb20fbcfc">https://online.yildiz.edu.tr/joinmeeting?meetingid=f445c1f3-6390-4c76-91cd-24cfb20fbcfc</a>	Session 12, 14, 16, 19, 22 <a href="https://online.yildiz.edu.tr/joinmeeting?meetingid=425d5f90-409a-4c62-b5b4-c07e24d9e4cb">https://online.yildiz.edu.tr/joinmeeting?meetingid=425d5f90-409a-4c62-b5b4-c07e24d9e4cb</a>
<b>Session 11: Renewable Energy Systems Auditorium</b>	<b>Session 12: Hydrogen Technologies Hall B</b>
Session Chair: Orhan Cakir	Session Chair: Nurhan Üregen Güler
<p>#31 Effect of Regenerated Biochar Additon to Single-Stage Valorization of Cheese Whey: A Novel Waste to Energy Approach, <i>Yapicioğlu, Pelin</i></p> <p>#19 Biohythane Production from Dairy Wastewater, Brewery Wastewater Sludge Digestate and Cheese Whey: A Multivariate Model for Hydrogen Budget, <i>Yapicioğlu, Pelin</i></p> <p>#147 Thermodynamic and DFT Assessment of Calcium Manganite for Thermochemical Energy Storage, <i>Bhosale, Rahul; Thompson, George; Mahtabi, Mohammad</i></p> <p>#148 High Temperature Thermal Energy Storage Using Lanthanum Cobaltite: Thermodynamic and DFT Evaluation, <i>Bhosale, Rahul; Thompson, George; Mahtabi, Mohammad</i></p>	<p>#140 Numerical Analysis of The Effects of Hydrogen Energy Share and Intake Air Temperature on Performance and Emission Characteristics of a Diesel Engine, <i>Şahin, Kaan; Gonca, Güven</i></p> <p>#142 Design Optimization of Single-Axis Solar Trackers Using Advanced Composite Materials, <i>Anus, Muhammad; Fadlallah, Sulaiman; Asfand, Faisal; Mishra, Rakesh</i></p> <p>#119 Aerodynamic Performance and Flow Structure Analysis of a Curved Micro-Nozzle Designed for Vertical Thrust Vectoring, <i>Aydin, Kadir</i></p> <p>#153 Laboratory Testing and Predictive AI Analysis of CI Engine Performance and Emissions Indicators Using Hydrogen-Enhanced Biofuels, <i>Muhammad Sarfraz Ali, Romualdas Juknelevičius, Saugirdas Pukalskas, Alfredas Rimkus, Laurencas Raslavičius</i></p> <p>#154 Predictive Performance Analysis of a Zeolite-Perlite Composite Trombe Wall System Using Support Vector Machines (SVM) With Radial Basis Function (RBF), Kernel Integration, <i>Yilmaz, Hakan; Kandilli, Canan</i></p>
09:00 – 11:00	

	<p><b>#151</b> Renewable Electricity Allocation Between Grid Decarbonisation and Maritime Hydrogen Production: A Threshold-Based System-Level Assessment, <i>Zincir, Bugra; Durukan, Ozcan</i></p> <p><b>#166</b> Hazid-Based Risk Assessment of Hydrogen-Diesel Dual-Fuel Marine Engine Systems, <i>Zincir, Bugra; Durukan, Ozcan</i></p> <p><b>#160</b> Suitable Site Selection for Wave Energy Production in Turkish Exclusive Economic Zone, <i>Şan, Yağmur; Şenyiğit, Ercan; Koca, Kemal</i></p> <p><b>#161</b> A New Methodology Combining Multi-Criteria Decision Making, Fuzzy Logic and Clustering Integration Approach for Regional Energy Potential Assessment of Turkey, <i>Şan, Yağmur; Şenyiğit, Ercan; Koca, Kemal</i></p> <p><b>#179</b> A Novel Hexagonal Prismatic Solar Concentrator for Façade-Integrated Optical and Thermal Enhancement: Experimental Performance Assessment, <i>Dağdeviren, Abdullah; Gürsoy, Emrehan; Acar, Bahadır; Ceylan, İlhan; Gedik, Engin</i></p>	<p><b>#155</b> Experimental Study on Measurements of Charge Transfer Resistance, Dynamic Capacitive Behaviour and Analysis of Energy Efficiency, Voltage Efficiency and Losses of Pem Fuel Cell Using Electrochemical Impedance Spectroscopy, <i>Kumar, Mukul; Subramanian, K.A.</i></p> <p><b>#159</b> Data-Driven Expression for Two-Phase Pressure Drop Across Orifices Using Symbolic Regression, <i>Almalki, Naief; AlZahrani, Abdullah A.</i></p> <p><b>#158</b> Simulation and Optimization of Pre-Furnace Heat Exchanger Train, <i>Yolaçıcı, Emre; Insel, Mert Akın</i></p> <p><b>#162</b> Blockchain-Based Energy Management in Data Centers: Benefit Realization and Value Creation, <i>Yaman, Gülşen; Tarakçı, Elif; Onur, Suat; Yaman, Ramazan</i></p> <p><b>#163</b> Development of A Reference Energy System for an Airport and Modeling the Scenario of Using Hydrogen Instead of Fossil Fuels in Vehicles, <i>Kaya, Uğur</i></p>
<b>11:00- 11:15</b> <b>Coffee Break</b>		
	<b>Session 13: Hydrogen Production</b> <b>Auditorium</b>	<b>Session 14: Energy Technologies and Applications</b> <b>Hall B</b>
	Session Chair: Mine Uysal	Session Chair: Şükran Şeker
<b>11:15 - 12:45</b>	<p><b>#92</b> Effect of Ultrasonic Pretreatment and Pet-Derived Biochar on Hydrogen Production in a Microbial Electrolysis, <i>Kilicaslan, Ahmet; Dincer, Ibrahim</i></p> <p><b>#95</b> Assessment of Titania and Ferric Oxide Coated Electodes for Photoelectrochemical Hydrogen Production, <i>Ayoub, Mohamad; Dincer, Ibrahim</i></p> <p><b>#96</b> A Waste to Hydrogen Pathway for Sustainable Energy Systems, <i>Meke, Ayşe; Dincer, Ibrahim</i></p> <p><b>#103</b> Performance Evaluation of Magnetically Activated Pinecone-Derived Biochar for Hydrogen and Electrochemical Energy Storage, <i>Capoglu, Ayca; Dincer, Ibrahim</i></p> <p><b>#133</b> Toward Recyclable Small Wind Turbine Blades: Mechanical Evaluation of Recycled Thermoplastic Glass-Fiber Composites, <i>Abou Saima, Ossama</i></p>	<p><b>#66</b> Energy-Efficient Design and Performance Evaluation of a Semi-Automatic Hydraulic Straw Compression Machine for Mushroom Cultivation, <i>Sangsuriyun, Montri</i></p> <p><b>#98</b> Machine Learning and Deep Learning for HVAC Load Forecasting: The Role of Temporal Feature Engineering, <i>Ermis, Seda</i></p> <p><b>#156</b> The Role of Electronic Manufacturing Services in Energy Transition in The Context of Electric Vehicles: A Bibliometric Analysis and A Türkiye Perspective, <i>Doğru, Aziz Kağan; Özgener, Önder</i></p> <p><b>#165</b> Flexible Storage Operation Policies Informed by Stochastic Unit Commitment Outcomes in Real-World Power Systems, <i>Floros, Dimitris; Patino-Echeverri, Dalia</i></p> <p><b>#123</b> Coupling Pharmaceutical Degradation with Hydrogen Production: A Zn-Doped TiO<sub>2</sub> Photoelectrocatalytic System, <i>Ateş, Ayşe; Ateş, Sinan</i></p>

<p><b>#150</b> From Solar Heat to Stored Fuels: A Multigeneration Framework for Compressed Hydrogen and Liquid Oxygen Production, <i>Sabbaghi, Mohammad Ali; Colpan, Can Ozgur; Genceli, Hadi</i></p> <p><b>#241</b> Dynamic Performance Assessment of A Wastewater-Based District Heating System: Transition from Gas Heating to Heat Pump Supply Under Building Renovation, <i>Almahmoudi, Alaa; Salem, Mohamed S.; Abdelrehim, Osama; Almanzalawy, Mohamed; Awad, Mohamed</i></p> <p><b>#242</b> A Novel Fog-Based Liquid Desiccant Absorber for Atmospheric Water Harvesting: Experimental Assessment, <i>Fathy, Mohamed H.; Hamed, Ahmed M.; Awad, Mohamed; Abdelrehim, Osama; Gad, Ramadan</i></p>	<p><b>#128</b> Process Modeling, Thermal Management and Tail Gas Analysis of SMR Based Hydrogen Production System, <i>Ishaq, Haris; Alghamdi, Yousef; Ibrahim, Ammar; Alshaiikh, Mohammad; Shahid, Seham</i></p> <p><b>#129</b> Process Design and Simulation of Hydrogen Production from Mixed Plastic Waste with Novel Heat Integration Design, <i>Ishaq, Haris; Halawani, Sarah; Aleid, Albtool; Alghamdi, Rawan</i></p> <p><b>#240</b> CFD Analysis of Rz-Induced Roughness in Bipolar Plate Channels, <i>Kayali, Ahmet; Düzgün, Rafet; Gürlek, Akın; Güney, Buse; Çakır, Orhan; Çakır, İbrahim Efe</i></p>
<b>12:45-13:30</b> <b>Lunch</b>	

<b>Wednesday –May 6, 2026</b>				
		<b>Session 17, 20, 23</b> <a href="https://online.yildiz.edu.tr/joinmeeting?meetingid=25e59de0-f83b-4080-89b2-df605bf449f8">https://online.yildiz.edu.tr/joinmeeting?meetingid=25e59de0-f83b-4080-89b2-df605bf449f8</a>		
<b>13:30 - 15:30</b>	<b>Session 15: Hydrogen Technologies Auditorium</b>	<b>Session 16: Energy Technologies and Applications Hall B</b>	<b>Session 17: Energy Technologies and Applications Hall C (A-201)</b>	
	Session Chair: Hadi Genceli	Session Chair: Özgün Balci	Session Chair: Merve Öztürk Kırkar	
	<p><b>#81</b> Mathematical Modeling and Energy Analysis for the Determination of Green Hydrogen Production Potential from H<sub>2</sub>s In Black Sea Coastal Regions, <i>Yavuz Çelikdemir, Meltem; Haydaroğlu, Cem; Kılıç, Heybet; Özdemir, Mahmut Temel; Yıldırım, Burak</i></p> <p><b>#105</b> Prediction of Green Hydrogen Production from PV-PEM Electrolyzer: An Experimental Study in Algeria, <i>Ramdani, Madjeda; Djafour, Ahmed; Tawalbeh, Muhammad; Belhaouari, Samir Brahim; Bensaci, Zineb; Mohammed, Omar Hazem</i></p>	<p><b>#181</b> Regulation-Driven Biofuel Pathways in Maritime Transport: Fuelu Maritime and Imo Net-Zero Framework, <i>Gülmez, Rukiye</i></p> <p><b>#182</b> Optimal Strategy-Oriented Assessment of Pfi, Di, And Dual Injection in A Hydrogen Si Engine for No Emissions, <i>Oktar, Hilmi; Özkan, Muammer</i></p> <p><b>#186</b> The Role of Biofuels in Maritime Decarbonization: A Weighted Swot Analysis, <i>Gülmez, Rukiye</i></p>	<p><b>#48</b> Hybrid Renewable Energy to Sustainable Smart Cities: A Case Study of Antalya, <i>Bekçi, Eyüp; Millidere, Metin; Koca, Kemal</i></p> <p><b>#49</b> Analysis of Flow-Induced Vibrations and Adaptation of Shark Gill Geometry for Bridge Piers, <i>Çelik, Mehmet Mustafa; Koca, Kemal</i></p> <p><b>#50</b> Numerical Simulation on Energy Efficiency of a Ship Equipped with Naca 4412 Airfoil Shaped Rotor, <i>Çelik, Mehmet Mustafa; Koca, Kemal</i></p>	

<p><b>#221</b> Evaluation of Renewable Energy Support Policies in Türkiye, <i>Ortaç, Fevzi Rifat; Unal, Selcan</i></p> <p><b>#83</b> Performance Analysis of a Hybrid Renewable and Green Hydrogen Energy Storage System for Energy Management in Regional Grid Balancing, <i>Hayrullahoğlu, Ferhat Eren; Çelikdemir, Soner; Arpa, Orhan; Haydaroğlu, Cem</i></p> <p><b>#35</b> Utilization of Waste Heat for Process Cooling and Space Heating in Biomass Power Generation Plants: An Energy, Environmental, And Economic Assessment, <i>Sahin, Mertkan</i></p> <p><b>#173</b> Ultramafic Bodies and Ophiolite Belts in Türkiye: Distribution, Serpentinization, And Natural Hydrogen Potential, <i>Yoldemir, Ongun; Enge, Joerg</i></p> <p><b>#172</b> Hydrogen Adsorption on Biomass-Derived Chemically Activated Carbons Prepared by Flash Heating: Isotherm, Kinetic, and Mechanistic Insights, <i>Yıldız, Ağah</i></p> <p><b>#184</b> Effect of Rare Earth Oxide Promoters (CeO<sub>2</sub>, La<sub>2</sub>O<sub>3</sub>, Sm<sub>2</sub>O<sub>3</sub>) on Cu/ZnO Catalysts Prepared By Co-Precipitation and Edta-Citrate Methods for Methanol Synthesis, <i>Şenses, Denizce</i></p> <p><b>#99</b> Numerical Study of Mass Transfer for Analysis of Concentration Losses In Hydrogen Pem Fuel Cells Using Electrochemical Impedance Spectroscopy, <i>Shardul; Subramanian, K.A.</i></p> <p><b>#39</b> Techno-Economic and Environmental Analysis for Pumped Storage Structures, <i>Karagöz, Yasin; Biçkici, Buğrayhan</i></p>	<p><b>#199</b> A New Numeric Hermetic Balance Calculations in Distribution Transformers: A Comparative Study of Mineral and Natural Ester Oils, <i>Altay, Ramazan; Yaman, Gülşen; Kaya, Can; Vurmaz, Yusuf Ayhan; Çaylak, Ahmet; Eyigün, Gökhan; Ortiz, Alfredo</i></p> <p><b>#201</b> Design of A Biogas-Solar Hybrid Energy System for Space Cooling and Pharmaceutical Refrigeration of a Rural Hospital in Africa: A Case Study, <i>Bema, Nyasha Netsai; Maseera, Kemal</i></p> <p><b>#190</b> Digital Characterization of Mobility Batteries: An AWS-Based Battery Passport and 4G-LTE Telemetry Implementation, <i>Dincer, Emre; Baykal, Tolga; Keskin, Mücahid Bilal</i></p> <p><b>#185</b> Mode-Based Decomposition of Shipboard Energy Use: A One-Year Case Study, <i>Ekmekçioğlu, Araks</i></p> <p><b>#245</b> Reducing Energy Consumption in Distributed AI-Assisted Coding through Adaptive Multi-Layer Routing, <i>Asrar U. Haque; Md. Sabir Hossain; Aasem A. Haque; Yusairah U. Haque</i></p> <p><b>#238</b> Experimental Investigation Of the Performance of a Liquid-Cooled Battery Cooling System, <i>Karagöz, Yasin; Gezer, Onur; Balcı, Özgün; Pusat, Şaban</i></p> <p><b>#231</b> Techno-Economic and Environmental Analysis of Rainwater Harvesting Systems, <i>Karagöz, Yasin; Biçkici, Buğrayhan</i></p>	<p><b>#51</b> Design Optimization of Dishwasher Feed Tube to Minimize Pressure Drop, <i>Ceylan, Halim; Koca, Kemal</i></p> <p><b>#115</b> Modeling and Simulation of Underground Hydrogen Storage in Porous Reservoirs, <i>Camcı, Selim Buğra; Ergün Songül, Eda; Koca, Kemal</i></p> <p><b>#61</b> SmartPayEnergy: Intelligent IoT Prepaid Electricity Monitoring system, <i>C D, Kavya; N, Sengottaiyan ; Seetanur, Tasleem Mahiboob ; Tamboli, Yunus D; G, Pavani</i></p> <p><b>#97</b> A Compact Feature-Subset for Accurate Heating and Cooling Load Prediction Using Machine Learning, <i>Ermis, Seda</i></p> <p><b>#84</b> Effect of Measurement Parameters on Joule Heating Performance, <i>Sinan, Hasan; Taşdemir, Rukiye; Yılmaz, Demet; Yapıcı, Kerim</i></p> <p><b>#170</b> Sizing and Six-Mode Energy Management of A PV-PEM Hydrogen Ev Charging Station, <i>Mohammad F. A. Al-Shdaifat, Habes A. Khawaldeh, Basam J. Alshaer</i></p> <p><b>#243</b> Optimum Sizing of Battery Energy Storage Systems Integrated with Renewable Energy Generation and Optimization of Operational Strategies Using Genetic Algorithm, <i>Sonmez, Leyla; Yuca, Neslihan</i></p>
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15:30- 15:45  
Coffee Break

	Session 18: Energy efficiency Auditorium	Session 19: Energy Technologies and Applications Hall B	Session 20: Energy Technologies and Applications Hall C (A-201)
	Session Chair: Merve Öztürk Kırkar	Session Chair: Şafak Metin Kırkar	Session Chair: Özgün Balci
15:45 - 17:45	#47 Thermal Performance Evaluation of the Continuous and Controlled Hybrid Cooling System for A Li-Ion Battery Module, <i>Bulut, Ece; Yıldız, Melih; Yazıcı, Mustafa Yusuf; Aktürk, Ahmet</i>	#168 Comparative Evaluation of Surfactant-Modified Co-B/G-C3n4 Catalysts for Efficient Hydrogen Generation from Nabh4, <i>Güven, Sila; Avcioğlu, Zeliha; Elçiçek, Hüseyin</i>	#196 Resilient Energy System Design for Small-Scale Land-Based Aquaculture Facilities under Power Outage Risks <i>Ueda, Soichiro; Furukakoi, Masahiro; Takahashi, Hiroshi; Rangarajan, Shriram; Collins, Edward; Senjyu, Tomonobu</i>
	#12 Systematic Design Methodology for Dc Microgrids Based on Practical Control Strategies, <i>Doğan, Serhat; Haydaroğlu, Cem; Gümüş, Bilal; Mohammadzadeh, Ardashir</i>	#05 Assessing Energy Efficiency in Australia's High-Speed Rail Network Through Cluster Analysis, <i>Kızıldaş, Mehmet</i>	#197 Smart Skin Cancer Triage System, <i>Teja Sree, Gali; Nisha, Yadavakunta; A, Arul Prasath; T M, Sivanesan; S, Gopi</i>
	#26 Development of Nano-Fluid Cooling System for Micromobility-Oriented Battery Pack, <i>Aydoğdu, Burhan</i>	#20 Production and performance comparison of non-conductive bipolar plate configurations with different flow fields at PEMEC, <i>Yağız, Mikail</i>	#200 PV Integrated MMC-HVDC System Interconnection with a Cascaded Fault Tolerant Dual-Input LLC Resonant DC/DC Converter, <i>Myat, Lin; Furukakoi, Masahiro; Uehara, Akie; Matayoshi, Hidehito; Takahashi, Hiroshi; Senjyu, Tomonobu</i>
	#18 Urban-Scale Impacts of Thermal Insulation on Natural Gas Consumption and Emissions, <i>Yunusoğulları, Ayca</i>	#42 A Real-Time Geospatial Medicine Delivery System with GPS Tracking and OTP-Based Verification, <i>Kumar, Santosh; Yadav, Arvind Kumar; Prathik, A</i>	#204 Experimental Investigation of Hydrogen Charging Performance in Heat Pipe Integrated Lani4.75al0.25 Metal Hydride Tanks, <i>Aslan, Oğuzhan; Matik, Ulaş; Kayfeci, Muhammet</i>
	#17 Optimization of Oil Use in Gas Engines in Biomass Power Plants, <i>Yıldırım, Berathan</i>	#157 Study and analysis of pressure losses at a steering valve in a hydraulic system, <i>Azzedine, Bouzaouit; Mounir, Gahgah; Choubeila, Boubechou; Chouaib, Zeghida</i>	#205 Fire and Explosion Risk Assessment in Hybrid Photovoltaic-Hydrogen Systems Using an Integrated Fault Tree Analysis and A 4m1e (Machine, Man, Material, Method, Environment)-Based Approach, <i>Tunç, Mehmet; Doğrubaş, Mustafa; Solmaz, Ramazan; Erdoğan, İbrahim Yasin</i>
	#58 Investigation of the Effect of Battery Holder Material on Battery Thermal Performance, <i>Pusat, Şaban; Karagöz, Yasin; Açıkel, Hakan</i>	#93 Spatio-Temporal Mapping of Wind Power Density and Monsoonal Dynamics in Igad Member States: Identifying Hotspots for Green Hydrogen Production, <i>Mustafe Aden Muhumed</i>	#206 Risk Assessment of Electrode Preparation for Alkaline Water Electrolyzers Based on Process Failure Mode and Effects Analysis, <i>Tunç, Mehmet; Solmaz, Ramazan</i>
	#64 Proposal and Analysis of an Integrated Gas Turbine-Based Combined Plant with Compressed Air Energy Storage and a Co <sub>2</sub> -Transcritical Rankine Cycle, <i>Bozkurt, Ayşenur; Yilmaz, Fatih</i>	#100 A Switched-Capacitor-Based Seven Level Single-Phase Inverter for Voltage Stress and Harmonic Distortion Reduction, <i>B, Kaviyarasan; C, Kumar; M, Dhanush; V, Hari Prasath; M, Kavi Bharathi</i>	#222 Dual-Backstep Predictive Perturb and Observe (P&O) MPPT for Fast and Stable Photovoltaic Energy Harvesting <i>Habes Ali Khawaldeh, Mariam AL-Khawaldeh, Moath Bani Fayyad, Mohammad Al-Smairan, Ahmad Salah, 4Mohammad Al Soeidat, Mustafa AL-Khawaldeh, Zaid A. Al Mualal, Dylan Lu, Fares Almomani</i>
	#65 Thermodynamic Performance Analysis of Solar Pdsc-Based Hybrid Plant for Thermal Energy Storage and Clean Hydrogen Generation, <i>Bozkurt, Ayşenur; Yilmaz, Fatih</i>	#86 Planning Improvement Works to Increase Energy Efficiency in Buildings: Recommendations and Case Study, <i>Dedeoğlu, Serpil</i>	
	#167 Life-Cycle Assessment of Biomass-Derived Methanol Production Pathways, <i>Kil Acar, Seyma; Sadikoglu, Hasan; Dincer, Ibrahim</i>	#176 Thermodynamic Analysis of a Solar-Based Green Methanol Production Plant: A Case Study in Hatay-Erzin <i>Genç, Ebrar; Ozturk Kırkar, Merve</i>	
	#223 Experimental Investigation on the Second-Law Performance and Exergetic Sustainability of Corrugated Helically Coiled Tubes, <i>Kırkar, Safak</i>		

		<b>#135</b> Life Cycle Assessment of Building Materials for Carbon-Neutral Buildings, <i>Khalaili, Tasnim; Abu-Rayash, Azzam</i>	<b>#224</b> A Novel Single-Phase Symmetric Seven-Level Inverter with Fewer Control Devices, <i>Habes Ali Khawaldeh, Mariam AL-Khawaldeh, Moath Bani Fayyad, 'Mohammad Al-Smairan, Ahmad Salah, Mohammad Al Soeidat, Mohammad Shalby, Dylan Lu, Fares Almomani</i>
<b>17:45- 18:00</b> <b>Coffee Break</b>			

	<b>Session 21: Energy efficiency Auditorium</b>	<b>Session 22: Energy Technologies and Applications Hall B</b>	<b>Session 23: Energy Technologies and Applications Hall C (A-201)</b>
	Session Chair: Nader Javani	Session Chair: Şafak Metin Kirkar	Session Chair: Özgün Balci
<b>18:00 - 20:00</b>	<b>#174</b> Thermodynamic Analysis of a New Integrated Solar-Wind Energy-Based Integrated System for Liquid Hydrogen Production, <i>Koc, Murat; Yuksel, Yunus Emre; Ozturk, Murat</i>	<b>#217</b> A Hybrid Simulation–Machine Learning Approach for Bio-Oil and Hydrogen Prediction in Pyrolysis–Ser Systems, <i>Ataş, Ali, Javani, Nader, Yucel, Ozgun</i>	<b>#178</b> Identifying Cause-Effect Drivers of Smart Energy Management in Shared Offices, <i>Cari, Melike; Ayyildiz, Ertugrul; Aydin, Nezir</i>
	<b>#202</b> Design of PV/T Integrated Greenhouse Drying System <i>Karatekin, Hedil</i>	<b>#232</b> Hybrid Hydrogen–Battery Powertrain for Material Handling: Design and Preliminary Validation, <i>Micari, Salvatore; Costanzo, Luciano; Scardino, Antonino Salvatore; Napoli, Giuseppe</i>	<b>#180</b> Investigation of drying and calcination behavior of clay and kaolin bio-composites containing seashell powders <i>Hachem, Houda; Mihoubi, Daoued</i>
	<b>#225</b> Hydrogen Fuel Cells in Data Centres: Enabling Peak Demand Relief and Long-Term Deep Decarbonisation in Electricity, <i>Khammadov, Kamran; Flynn, Damian; Syron, Eoin</i>	<b>#228</b> From Hydrogen-Powered Nrm to Mobile Flexibility Asset: A Technical Scenario for Bidirectional Energy Interaction in Industrial Sites, <i>Napoli, Giuseppe; Scardino, Antonino Salvatore; Costanzo, Luciano; Micari, Salvatore</i>	<b>#183</b> Parametric Sensitivity and Climate Transferability of a Hydrogen-Dominant Pv–Ev Charging Station, <i>Mohammad F. A. Al-Shdaifat, Habes A. Khawaldeh, Basam J. Alshaer</i>
	<b>#203</b> Thermodynamic Analysis of Combustion-Based Integrated System for Liquid Hydrogen, Power and Fresh-Water Production, <i>Koc, Murat; Yüksel, Yunus Emre; Ozturk, Murat</i>	<b>#141</b> Preventing Cascading Fires: Spacing and Placement Optimization for Electric Vehicles on Ro-Ro Decks, <i>Amini, Pakrad; İnce, Serdar Turgut; Ayçi, Tolga</i>	<b>#175</b> Lightweight Blockchain Warranty System with Off Chain Storage and QR Based Verification, <i>Gundumogula, Harshitha; Gaddam, Atel; Nimmala, Purushotham; Gorrepati, Sumanth; Itikala, Saradhi</i>
	<b>#59</b> Techno-Economic Assessment of Oxygen-Enriched Combustion Process, <i>Pusat, Şaban; Karagöz, Yasin; Destanoğlu, Tansu</i>	<b>#193</b> Investigation of Airflow Distribution in Fan-Assisted Dishwasher Drying Systems Using CFD, <i>Devrim, Mert</i>	<b>#226</b> Theoretical Study of a Vertical Solar Distiller with an External Reflector, <i>Felix, Ngouem; Vaneck, Bill; Maxwell, Tientcheu; Fokone, Tetang; Jacques, Bikai</i>
	<b>#110</b> Energy Efficiency Analysis of An Innovative Heating System for Standby Generators, <i>Taşkıran, İsmail; Başköse, İbrahim Ethem; Yumurtacı, Zehra; Pusat, Şaban; Karagöz, Yasin</i>	<b>#194</b> Route-Based Battery Degradation Modeling in Intercity Electric Buses: A Deterministic Integrated Approach, <i>Orman, Yakup Kaan; Ergenç, Alp Tekin</i>	<b>#219</b> Thermal Analysis of Medium-Concentration PTPV-T Receivers: Substrate Material Impact, <i>Tuncel, Bilge</i>
	<b>#229</b> Innovative Hybrid Propulsion: Integration of Electric and Compressed Air Systems with Renewable Energy Support, <i>Aydin, Kadir</i>	<b>#195</b> Comparative Analysis of Machine Learning Models for Predicting Heat Transfer Coefficient in Jet Impingement Cooling, <i>Mert, Egemen; Tuna, Aras; Sevindir, Mustafa Kemal</i>	<b>#233</b> Thermodynamic and Exergy Analysis of a PCM-Integrated Solar Food Dryer for Agricultural Applications <i>Aqil, Laeeq Ahmed Khan; Bhattad, Atul; Pittam, Srinivasa Rao; Awad, Mohamed</i>
	<b>#208</b> Experimental Evaluation of the Performance of Perc, Half-Cut, And Bifacial PV Modules Based on Tilt and Orientation Angles, <i>Alrafadi, Ali Jibreel Saed; Kayfeci, Muhammet; Şevik, Seyfi</i>	<b>#187</b> Real-Time Data Analysis and Estimation Methods in Electric Vehicles, <i>Ergök, Hamdi; Tuna, Aras Akın</i>	<b>#234</b> Solar Evacuated Tube Collector with Non-Edible Oil <i>Bhattad, Atul; Awad, Mohamed</i>

	<p><b>#218</b> Preparation of Al<sub>2</sub>O<sub>3</sub> Hydrogen Barrier Coatings on Steel Pipes and Analysis of Thickness-Dependent Thermal Stresses, <i>Erturk, Ercan</i></p> <p><b>#220</b> Analytical Investigation of Temperature- and Thickness-Dependent Thermal Residual Stresses in Re<sub>2</sub>O<sub>3</sub> Hydrogen Barrier Coatings on AISI 304L Stainless Steel tapes, <i>Erturk, Ercan</i></p>	<p><b>#191</b> Thermal Modeling of Military Vehicle Cabin HVAC Systems Under Desert Climate Conditions, <i>Bayav, Furkan</i></p> <p><b>#212</b> Comparison of Finned and Stepped Solar Basins for Small Scale Desalination Plant Application in Cyprus, <i>Masera, Kemal</i></p> <p><b>#244</b> An Advanced Framework for the Detection and Prevention of Email Phishing Attacks, <i>Morveen Bamanian, Anilkumar Patel, Yassir Farooqui</i></p>	<p><b>#235</b> Thermal Energy Storage System for Membrane Distillation (Md) Based on Round the Clock Desalination <i>Thomas, Sanju John; Sahoo, Sudhansu S.; Awad, Mohamed</i></p> <p><b>#236</b> Thermal Performance Modeling of a Hybrid PV/T Integrated Solar Drying System, <i>Elbrashy, Amr; Awad, Mohamed</i></p>
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