CONFERENCE PROGRAM

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	Sunday 11 May 2025 **Registration 14:00-16:00**
	Location: Besiktas Campus, Yildiz Technical University, Istanbul https://maps.app.goo.gl/9f5NpSykZyGFK7oLA

Monday – May 12, 2025	
Online Session Link (12 May -Opening Speeches) https://online.yildiz.edu.tr/joinmeeting?meetingid=c4bf3f72-f63f-4e23-bd9d-17146174c51b	
Conference Registration (9:00-16:00) **Location: Auditorium, Besiktas Campus, Yildiz Technical University** **Opening Talks (ICES-2025)**	
Opening Speeches **Moderator: Prof. Dr. Hasan Heperkan**	
09:30 –10:30	**9:30-9:35** **Dr. Nader Javani, Conference Co-Chair**
	9:35-9:40 **Prof. Dr. Zehra Yumurtacı, Dean, Faculty of Mechanical Engineering, Yildiz Technical University**
	9:40-9:45 **Prof. Dr. Vatan Karakaya, Vice Rector, Yildiz Technical University**
	9:45-10:25 **Plenary Speaker: Prof. Dr. Veysel Eroğlu, Former Minister of Environment and Forestry of Republic of Turkiye** ***Hydroelectric Power Plants***
	10:25-10:30 **Awards and Appreciations**
Coffee Break **10:30-10:40**	
10:40 -12:00	**10:40-11:20** **Plenary Speaker: Prof. Dr. Ibrahim Dincer** ***New Dimensions of Energy and Sustainable Solutions***
	11:20-12:00 **Plenary Speaker: Prof. Dr. Hussam Jouhara** ***Innovative Industrial Waste Heat Recovery Systems***
12:00- 14:00 Lunch	

14:00 -15:30	**Monday – May 12, 2025** **Session Chair: Prof. Dr. Ibrahim Dinçer**
	14:00- 14:30 **Invited Speake: Prof. Dr. Haitham S.M. Ramadan** ***Hydrogen Storage Technologies: Test and Certifications***
	14:30- 15:00 **Invited Speake: Prof. Dr. Rahul Bhosale** ***Advancing Solar Fuel Production through Metal Oxide-Driven Thermochemical H_2O/CO_2 Splitting Cycles***
	15:00- 15:30 **Invited Speake: Prof. Dr. Ismet Ugursal** ***The Future of Energy and Human Development***
15:30- 15:45 **Coffee Break**	

Online Session Links (12 May)	
Session 1-3 https://online.yildiz.edu.tr/joinmeeting?meetingid=c4bf3f72-f63f-4e23-bd9d-17146174c51b	**Session 2-4** https://online.yildiz.edu.tr/joinmeeting?meetingid=6727c871-9c3c-4288-b8a4-11fad4538c08
Monday 12 MAY 2025	
Parallel Sessions	
15:45 – 16:45	**Session 1 : Hydrogen Technologies** **Auditorium**
	Session Chair: Dr. Hatice Mercan
	#20 Operation Optimization of Integrated Wind And Hydrogen Storage Facilities Using Information Gap Decision Theory And Stochastic, Programming, *Morteza Nazari-Heris* **#02** The production of hydrogen with solid recovery fuel through plasma-assisted gasification, *Rusdan Aditya Aji Nugrohoa, Wei-Cheng Wang, Jhe-Kai Linb, Chanathip Hongkhamdeeb* **#39** Evaluation of Green Hydrogen Facility Locations For Türkiye's Eastern Mediterranean Region, *Selim Karaaslan , Şükran Şeker*
	Session 2: Energy Storage and Renewable Energy Systems **Hall B**
	Session Chair: Dr. Birgül Aşçıoğlu
	#15 Energy Storage Innovations For Electric Vehicle Fleets: Challenges And Future Directions For Italian Case Study, *Hamid Safarzadeh, Francesco Di Maria* **#61** An Assessment For Lithium Metal Phosphates (Me: Fe, Ni, Co, Mn): Properties, Production, Performance And Its Prospective, *Mehmet Feryat Gülcan, Neslihan Yuca* **#76** A Comprehensive Examination of Structural Batteries And The Prerequisites For Their Fabrication, *Mehmet Feryat Gülcan, Sebahattin Gürmen* **#11** Attention-enhanced Convolutional Neural Network for photovoltaic panel defect detection, *Samia Benyahia, Boudjelal Meftah*

	#99 Hydrogen Production And Pollutant Degradation Via Tio_2-Based Photoelectrochemical Treatment of Pharmaceutical Effluent, *Ayşe Elif Ates, Sinan Ates* **#109** A Brief History of Energy Security, *Leman Erdal*	**#72** An Initial Investment Cost Estimation Approach For The Supercapacitor Banks In Electric Vehicles , *Nükhet Sazak, Salih Elderviş*
16:45- 17:00 Coffee Break		

Monday 12 MAY 2025		
	Session 3: Energy and Sustainability Auditorium	**Session 4: Renewable Energy Systems Hall B**
	Session Chair: Dr. Nader Javani	Session Chair: Dr. Kadir Aydın
17:00 – 18:15	**#60** Comparative Analysis of Carbon Credit Methodologies For Retrofitted Buildings, *A Pathway For Malaysia, Azlin Mohd Azmi* **#23** Smart Cities And Digital Twin: Techno-Socio Analysis And Future Trends, *Morteza Nazari-Heris* **#84** Comparative Analysis of Cnn, Lstm And Gru Models For Optimizing Wind-To-Hydrogen Production, *Ceren Ceylan, Zehra Yumurtacı* **#94** Investigation of A Lab-Scale Infrared Oven Developed For Polymer Composites With Surface To Surface Radiation Modelling, *Mehmet Emre Burulday, Nader Javani* **#98** A Study On Hydropower Integrated Green Ammonia Production In Rize, Türkiye **,** *Mert Özsaban, Adnan Midilli* **#73** A Hybrid Bioelectrochemical System For Concurrent Bioenergy And Biohydrogen Production, *Aysegul Yagmur Goren, Ibrahim Dincer, Ali Khalvati*	**#18** Optimization of Energy-Efficient Chitin Extraction From Shrimp Shell Waste, *Minou Atharifar, Salehe Allami, Ebrahim Nemati Lay* **#37** Analysis of energy performance and thermal behavior of buildings with and without Trombe walls: A case study in Lavasan city, *Maryam Pakfetrat, Negin Maftouhi* **#82** Selection of Low-Environmental-Impact Refrigerants Using Artificial Intelligence in Residential Cooling Technologies, *Altay Arbak* **#74** Feasibility Study of Renewable Energy And Hydrogen Storage Microgrid System In Rural Areas, *Muhammed Tugrul, Dursun Özturk, Mehmet Ali Kopru* **#71** Modeling And Implementation of A Rack-And-Pinion Inerter For Suspension Energy Recovery Applications*, Ştefan Petrovan, Alexandru Gabriel Popa, Edward Rakosi, Tudor-Marian Ulian, Gheorghe Manolache* **#28** Calculation of Electromagnetic Fields In The Surroundings of The Photovoltaice Power Plant, *Hidajet Salkić, Eldar Hukić*

11:00 - 18:00	**Poster session-1** **#92** Thermal Validation And Heat Transfer Analysis of A Prismatic-Type Lithium-Ion Battery Under High C-Rate Discharges *Kamil Kağan Türker, Nader Javani* **#100** Energy-Efficient Spintronic Devices Via Reduced Magnetic Damping In Cofeb Thin Films *Byeongwoo Kang, Heung-Yeol Park, Jun-Young Park, Byeong-Kwon Ju* **#42** Elaboration And Optical Characterization of Cfts Thin Films For Solar Cell Applications *Assia Khoualdia, Ibtissem Touati, Mariem Marzougui, Roumaissa Hamdi, Ferid Chaffar Akkari, Mounir Kanzari* **#10** Tribological Performance of Crmon Pvd Coating **#08** The Role of Artificial Intelligence And Cybersecurity In Energy Management And Optimization *Motasem AbuDawas* **#16** Study of The Acoustic Characteristics of Scxal1-Xn Thin Films *Kahina Ammiali, Abderrazek Brichni, Abdellaziz Doghmane, Ibtissem Touati*

Online Session Links (13 May)	
Session 5-7-9-11 (Main Session Included) https://online.yildiz.edu.tr/joinmeeting?meetingid=3a696a85-8b17-4ad2-a4fe-8e7503771dcb	**Session 6-8-10-12** https://online.yildiz.edu.tr/joinmeeting?meetingid=4d0f3e02-e1fd-41d8-8d76-051938d475ef
Tuesday – May 13, 2025	
9:30 – 10:30	**Session Chair: Prof. Dr. Kadir Aydın**
	09:30-10:00 **Invited Speake: Dr. Imran Asghar** ***TBA***
	10:00-10:30 **Invited Speake: Dr. Neslihan Yuca** ***Next Generation Battery Technologies To Power The Future***
10:30-10:40 **Coffee Break**	

Tuesday –MAY 13, 2025		
	Session 5: Thermofluids Auditorium	**Session 6: Renewable Energy Systems Hall B**
	Session Chair: Dr. Selim Dalkılıç	Session Chair: Dr. Mine Uysal
10:40 - 12:00	**#63** Free Convection In Metal Foam Heat Sinks At Various Angles, *Hannah Klatzke, Nihad Dukhan, Ming Liang, Michael Dupuis* **#13** Development and experimental assessment of oil free combine absorption-compression heat pump with NH3/H2O mixture working fluid, *Khalid Hamid* **#91** Thermal Decomposition Behavior of Chlorella Vulgaris Via Tga-Ftir Analysis, *Sevgi Polat, Ömer Faruk Kılıç* **#114** High-Capacity Graphenated Carbon Nanotube Cotton/Mos2 Supercapacitors, *Eren Güvenilir, İbrahim Aydemir, Saman Habashyani, Soheyl Mobtakeri, Ismail Ismayadi, Neslihan Yuca, Engin Alkan Emre Gür* **#33** Comparative Study of The Influence of Electronic Temperature On The Characteristics of Noble Gas Clusters, *Abderrazek Brichni, Kahina Ammiali* **#41** Prioritizing The Barriers To Green Hydrogen Adoption In Energy Systems Using Interval Valued Intuitionistic Fuzzy Dematel, *Ertugrul Ayyildiz, Busra Kesici, Melike Erdogan, Melike Cari, Nezir Aydin*	**#110** An Analysis of Economic And Fiscal Impact of National Emissions Trading System (Ets) Regulation And Renewable Energy Investments on Fiscal Stability: Case of Bosnia And Herzegovina, *Edina Sudžuka Haris Hadžijusufović* **#81** Variation of Perovskite Solar Module Electrical Parameters With The Operating Solar Module Temperature , Omar Shaker, Adawiya Hamza , Emad Hashim **#77** Predictive Analytics For Renewable-Based Multigeneration Systems Using Hybrid Machine Learning Algorithms, *Sheikh Muhammad Ali Haider, Tahir Abdul Hussain Ratlamwala, Khurram Kamal, Haifeng Liu* **#105** Machine Learning Classification of A Fuel Cell: A Comparative Study Using B0005, B0006, B0018, And B0007 Derived Data, *Sıtkı Akkaya, Şekip Esat Hayber, Murat Uyar* **#85** Prediction of Heat Transfer Coefficient In Co2 Flow Boiling Using Artificial Neural Networks, *Aras Akın TUNA, Mustafa Kemal Sevindir* **#88** Exergy and energy analysis of a monocrystalline photovoltaic solar module performance under Al-Jaderia environment climate conditions *Mohammed Ali jaaz, Kareem Hassan Ali*
12:00-14:00 Lunch		

Tuesday –May 13, 2025		
	Session 7: Sustainable Energy Systems **Auditorium**	**Session 8: Hydrogen Technologies** **Hall B**
	Session Chair: Dr. Adnan Midilli	Session Chair: Dr. Şükran Şeker
14:00 - 15:15	**#64** Exergy Analysis of Transcritical Co_2 Refrigeration System Enhanced With Ejectors, *Yasin Özkan, Ahmet Selim Dalkilic* **#70** Numerical Analysis of Four Methane Reforming Processes over a Nickel-Based Catalyst: Insights Carbon Deposition and Energy Consumption, *Ahmed Aheed Ali Mohammed, Mohammed Al-Marri, Anand Kumar* **#62** Tailoring Copper Content In Cu/Ceo2 Catalysts For Enhanced Co2-To-Co Conversion, P*arisa Ebrahimi, Anand Kumar, Mohammed J. Al-Marri* **#90** The Future of Hybrid Vehicles: The Impact of KSG (Crankshaft Starter Generator) Technology on Energy Efficiency and Sustainability, *Aysima Pıçak Adaş* **#43** A Compact Thermoelectric Atmospheric Water Generator: An Energy-Efficient Approach For Decentralized Water Production, *Amirhossein Baravardeh, Ebrahim Nemati Lay* **#103** Neural Network-Driven Critical Load Management Via Fuel Cell-Supported Hybrid Renewable Energy Systems, *Hasan Onur ATAÇ, Mehmet Güçyetmez* **#104** Solar-Based Hydrogen Production For Sustainable Urban Transportation: A Case Study of Sivas, Türkiye, *Yağmur Arıkan Yıldız, Mehmet Güçyetmez, Murat Uyar*	**#79** The Thermal Footprint of Educational Buildings: A Transient Simulation Evaluation of Heat Gain Patterns In Educational Buildings, *Ahmed M. Amer, Ahmad I Elshamy, Ahmed A. Abdel-Rehim* **#57** Cost Analysis of Hydrogen Production In Turkiye: Evaluating Economic Feasibility, *Assem Abdurakhmanova, Ibrahim Dincer* **#101** Facilitating Ion Transport For Enhanced Hydrogen Production In Finite-Gap Electrolysis Using Ion-Exchange Resins, *Burak Yuzer, Yusuf Bicer* **#34** Solar Thermochemical Energy Storage Via H2 Production Using A Feso4/Feo Water Splitting Cycle, *Rahul R. Bhosale, et al.* **#113** Analyzing The Barriers To Hydrogen-Based Public Transportation In Metropolitan Cities Using Interval-Valued Neutrosophic Dematel, *Aleyna Sahin, Ertugrul Ayyildiz* **#106** The Effectiveness of Ml Algorithms In Terms of Classification For The Development of Fcev Infrastructure, *Sıtkı Akkaya, Şekip Esat Hayber, Murat Uyar*
15:15-15:30 **Coffee Break**		

Tuesday –May 13, 2025		
	Session 9: Energy Systems **Auditorium**	**Session 10: Renewable Energies** **Hall B**
	Session Chair: Dr. Kadir Aydın	Session Chair: Dr. Ercan Ertürk
15:30 – 17:00	**#27** Comparison of Advanced Pv Technologies In Aliaga Region, *Merve Kansu, Mahir Kutay* **#26** Techno-Economic Analysis of The Adoption of Behind-The-Meter (Btm) Batteries, *Nikhil Jayaraj, Sacithra Anandaraj, Anamika Ashok* **#93** efficient insulin storage using pemfc waste heat with hporc and flywheel-assisted toluene cooling, *Muhammad Anus, Muhammad Farzam Siddiqui1, Syed Sheharyar Hussain Shah, Syed Mubbushir Ahmed , Khurram Kamal , Tahir Abdul Hussain Ratlamwala1* **#69** Evaluation of Steering System Performance Under Vibrational And Shock Loads Considering Influential Factors, *Alexandru-Gabriel Popa, Ștefan Petrovan, Edward Rakosi, Tudor-Marian Ulian, Gheorghe Manolache* **#75** Analysis review of the impact of energy storage practices on the electric vehicle charging strategies in the last-mile delivery, *Mohammad Zaher Akkad, Nadir Javani, Tamas Banyai* **#04** Hybrid Biocomposite Photocatalysts For Water Remediation Using Visible Light Radiations, *Omar Zegaoui, 1 Imane Aadnan, 2 Joaquim C.G. Esteves da Silva* **#115** Development of Some Policies For An Ai-Based Green Hydrogen Future, *Ali Eren Aluç, Adnan Midilli*	**#80** Examination of The Impact of Rail Roughness on The Wear of Wheel Profiles, Energy Consumption, And Co_2 Emissions In Railway Systems, *Deren Marabaoglu, Muzaffer Metin* **#87** Criteria Weight Calculation For Solar Power Site Selection, *Ali Değirmenci, Şükran Şeker* **#51** A Review On Analysis of Algae-Based Biofuel In I.C Engines, *Teghbir Singh Sahans, Tejash Patel, Anish Laxman Jadhav, Cohen Noronha, Abhishek Priyam* **#12** Modeling And Simulation of Wind Turbine System With Mppt For Optimal Power Extraction In Varying Load Conditions, *AMRANI Charef Eddine, Haddad Salim, Bouakkaz Abderraouf* **#112** Study the effect of environmental conditions, solar insolation, ambient temperature, wind speed, and humidity on monocrystalline silicon solar module performance, *Nadeem Fahad Kadhum, Emad Talib Hashim* **#102** An experimental method of maximum power point tracking for 50 watt photovoltaic solar module using solar charger controller (ML2440) *Enas Faisal, Shaymaa A. Mahdi, Emad T. Hashim* **#95** A Case Study For Hydrogen Storage With Green Ammonia *Berk Barbur, Nader Javani*
17:00-17:10 **Coffee Break**		

Tuesday –May 13, 2025		
	Session 11: Energy Systems **Auditorium**	**Session 12: Renewable Energies** **Hall B**
	Session Chair: Dr. Merve Öztürk	Session Chair: Dr. Nader Javani
17:10 – 18:30	**#97** Algorithm For Calculating Heating In Hydrodynamic Journal Bearings, *Huseyn Mirzayev, Ramil Mammedli* **#32** Hydrogen Internal Combustion Engines (H2-Ices) For Transportation And Off-Road Applications, *Kadir Aydin* **#45** The Gamma Leap: Elevating Solar Power Conversion With Z-Source Inverters, *Elanthirayan R, Adirai D, Akshara D* **#19** An Investigation of Hybrid Reactor For Simultaneous Hydrogen And Electricity Production, *Ahmet Faruk Kilicaslan, A. Yagmur Goren, Ibrahim Dincer and Ali Khalvati* **#44** Investigation of A New Hydrogen Generator, *Mehmet Gursoy, Ibrahim Dincer* **#46** Investigation of The Effect Of The Use of Ammonia In Diesel Engines On The Performance And Emissions of The Engine, *Yasin Karagoz, Saban Pusat, Abdullah Emre Teksan, Erdal Tuncer, Mustafa Mert Yılmaz* **#66** Comparison of Fuel Consumption Data For Hybrid And Conventional Diesel Tractors, *Özgün BALCI, Yasin Karagoz* **#108** Exergy And Techno-Economic Analyses of Methanol Production System Integrated With Calcium Looping Co2 Capture In A Coal Power Plant, *Muhammet Mert Dincer, Merve Ozturk Kirkar*	**#25** Advancing Hydrogen Mobility In Turkiye: Challenges, Opportunities, And Future Directions, *Kadir Aydin* **#89** Energy-saving technology for increasing efficiency of energy production Aydin Muradaliyev, Simuzar *Ismayilova, Samira Abdullayeva, Islam Mammadov* **#35** Ni-Ferrite Driven Co2 Splitting Redox Cycle For Solar Thermochemical Fuel Production And Energy Storage, *Andrea Stevens, Rahul R. Bhosale* **#48** Assessing The Potential of Solar Energy For Hydrogen Production And Natural Gas Grid Integration In Kahramanmaraş Province, *Mustafa Mücahit Soylemis, Şaban Pusat* **#96** Optimizing Green Energy Options For Industrial Applications, *Murad Rustamzade, Nader Javani* **#112** Study the effect of environmental conditions, solar insolation, ambient temperature, wind speed, and humidity on monocrystalline silicon solar module performance **#111** Evaluation of Waste Heat Generated in the Flat Glass Production Process Using Rankine and Organic Rankine Cycles, *Mertcan Karagoz, Hasan Hüseyin Erdem* **#86** Physics-Informed Neural Networks For Rocket Nose Cone Flow Prediction: A Comparative Cfd Study, *Mohammad Afshar, Özlem Emanet*

11:00 - 18:00	**Poster session-2** **#21** New Model For Calculation of Thermal Efficiency of Solar Flat Plate Collectors In Dynamic Mode Under Transient Conditions *Adnane Labed, Abdelouhab Barbas, Noureddine Moummi* **#22** New System For Refreshment In Rural And Saharan Cities: Experimental Investigation of Air- Water Heat Exchanger *Abdelouahab Berbas, Adnane Labed, Achraf sayad, Abderrahmane Chettir* **#31** Thermal Performance of Solar Flat Plate Collectors Using Bio-Composite Insulation Material Based On Algerian Date Palm Waste, *Ayoub Machirouri, Maroua Ferhat, Adnane Labed, Hocine Djemai* **#123** The Effect of Roof Tile Color On The Energy Efficiency of Bifacial Photovoltaic Panels *Dinçer Akal, Taşkın Tez* **#52** Water Pressure Management – Bernoulli's Principle *R.Premkumar Et Al.*

Online Session Links (14 May)	
Session 13-15 https://online.yildiz.edu.tr/joinmeeting?meetingid=a45a412e-5c35-4885-ad3d-c475ee6180bc	**Session 14-16** https://online.yildiz.edu.tr/joinmeeting?meetingid=831e7d04-5462-444a-bf44-0741847a709a
Wednesday –May 14, 2025	
Session 13: Hydrogen technologies **Auditorium**	**Session 14: Green Buildings** **Hall B**
Session Chair: Dr. Ercan Ertürk	Session Chair: Dr. Masoud Taghavi
09:00 – 10:30	
#65 Addressing The Challenges For Vertiport Location Selection In Urban Air Mobility Using Spherical Fuzzy Decision Making, *Selcen Cabuk, Yildiz Kose, Ertugrul Ayyildiz* **#67** Production of Sustainable Aviation Fuel Via Fischer-Tropsch Synthesis: Process Design And Efficiency Analysis, *Duygu Gunduz Han, Kaan Erdem, Adnan Midilli* **#58** A Study On Wind Speed Estimation With Artificial Intelligence And Time Series Models For Wind Turbines, *Volkan Turkmen, Şaban Pusat*	**#36** Energy Improvement of an Office Building in Mehr County, Iran, using Various Insulation, *Maryam Pakfetrat, Negin Maftouhi* **#40** Assessment of An Integrated Solar-Based Hydrogen and Methanol Production System, *Seyma Kil Acar, Hasan Sadikoglu, Ibrahim Dincer* **#107** Prediction of Syngas Composition From Biomass Gasification With Machine Learning Approach, *Nurhan Uregen Guler, Zehra Yumurtacı, Parsa Fathi, Parisa Heidarnejad*

	#38 Sucrose-Derived Co@Cqds For Sustainable Hydrogen Generation: Role of Solvent In Catalyst Design, *Selma Ekinci, Ömer Şahin, Mehmet Sait İzgi, Erhan Onat* **#54** Cfd Analysis For Cooling of A Simple Photovoltaic/Thermal System, *Ozan Akbas, Şaban Pusat* **#78** Environmental Impact Analysis of Solar Panel Manufacturing: A Simapro-Based Lca Approach, *Feyza Sen, Saban Pusat* **#47** Experimental Investigation of The Effect of A Mixture Containing Three Different Substance Nanoparticles On Heat Transfer, *Yasin Karagoz, Saban Pusat, Selman Karagoz, Abdullah Emre Teksan*	**#09** Numerical Analysis of Four Methane Reforming Processes Over A Nickel-Based Catalyst: Insights Into Conversion, Carbon Deposition, And Energy Consumption, *Ahmed Aheed Ali Mohammed, Mohammed Al-Marri, Anand Kumar* **#14** Design and analysis of direct solar dryer for drying tomato flakes, *Ismail Masalha, Omar Badran, Ali Alahmar Aiman Al Alawin* **#29** Increasing the efficiency of photovoltaic systems by cleaning, *Omar Badran, Ismail Masalha, Yousif El-Tous and S.U. Masuri* **#24** Experimental Investigation of Biohydrogen Production Using A Novel Vacuum-Assisted Anaerobic Digestion System, *Ayse Sinem Meke, A. Yagmur Goren, Ibrahim Dincer and Ali Khalvati* **#49** Investigation of A Vertical Axis Wind Turbine Design And Experimental Performance Evaluation, *Ahmet Faik Yüce, Yasin Karagöz, Şaban Pusat*
10:30- 10:45 Coffee Break		
10:45 - 12:15	**Session 15: Energy Technologies Auditorium**	**Session 16: Energy Technologies Hall B**
	Session Chair: Dr. Yasin Karagöz	Session Chair: Dr. Şaban Pusat
	#124 Effect of Ni Doping and Film Thickness on Photoelectrochemical Performance of Cu_2O Electrodes, *Ibrahim Akgun, Muhammed İberia Aydın, Ibrahim Dincer* **#120** Photoelectrochemical Hydrogen Evolution Using Stainless Steel Coated With Ir-Doped Tio_2, *Ahmet Emin Dedeoglu, Ibrahim Dincer* **#117** Cdte Doped Zno Coated Electrodes For Photoelectrochemical Hydrogen Production, *Sumeyya Ayca , Ibrahim Dincer* **#83** Environmental Impact Analysis of Solar Panel Manufacturing: A Simapro-Based Lca Approach, *Feyza Şen* **#56** Design And Cfd Analysis of A Small-Scale Vertical Axis Wind Turbine, *Furkan Çelinkkilic, Şaban Pusat*	**#59** Passive Cooling of Li-Ion Batteries Using Phase Change Materials, *Merve Sandıkçı, Şaban Pusat* **#55** Electrochemical Synthesis of Tin-Based Electrocatalysts And Effect On Electroreduction of Carbon Dioxide To Formate In Alkaline Medium, *Omer Refik Sozbir, Ibrahim Dincer* **#53** Geothermal-Driven Gasification Integrated System For Hydrogen, Power, And Domestic Water And Space Heating Applications, *Mohamad Ayoub, Ibrahim Dincer* **#122** Potential of Green Methane Production Using Renewable Energy Sources In Izmir, *Masoud Taghavi, C. Ozgur Colpan, Ibrahim Dincer* **#50** Challenges In The Implementation of Energy Performance Contracts In The Public Sector And Proposed Solutions, *Sercan Kolik, Şaban Pusat*

	#06 Determination of Thermal Properties For Composite Phase Change Material Using Differential Scanning Calorimetry, *Bhim Kumar Choure, Tanweer Alam, Rakesh Kumar* **#07** Relationship Between Network Dislocations And Nonstoichiometry In Rutile Tio2, *Abdelmalek Mebarek* **#121** Evaluation Of Heating Energy Requirement In Buildings According To Climate And Insulation Conditions, *Şaban Pusat, Yasin Karagoz*	**#118** Economic Feasibility And Grid Flexibility Enhancement Through Electricity Storage: A 2024 Market-Based Study, *Yasin Karagoz, Şaban Pusat, Zehra Yumurtaci* **#119** Techno-Economic Assessment of Energy Storage Options In Wind Power Systems: Battery, Hydrogen, And Hybrid Scenarios, *Yasin Karagoz, Şaban Pusat* **#125** Predicting Thermal Sensation Vote Using Random Forest and Feature Importance Analysis on a Chinese Thermal Comfort Dataset, *Amir Rahmanparast, Muhammed Milani, Muhammet Camci, Yakup Karakoyun, Ahmet Selim Dalkilic*
Concluding Remarks **12:15-12:30**		