## 9. European Conference on Renewable Energy Systems (ECRES 2021) CONFERENCE PROGRAMME

## 1. DAY (21 April 2021) - HALL A

09:00-09:15	OPENING SESSION - The Welcome Message	Prof. Dr. Erol Kurt (Founder & Chairman)
	SESSION 1A - Special Session (Advances in waves and renewable energy in the ocean)	Session Chair: Dr. Aytaç Perihan Akan
09:15-09:30	119-Characteristics of Beach Erosion at Kkotji Beach in Korea	Hyun Dong Kim (The World Association for Waterborne Transport Infrastructure(PIANC) ); Jinwoo Jeong (Catholic Kwandong University); Kyu-Han Kim (Catholic Kwandong University)
09:30-09:45	203-Continuous Ocean Data Analysis Using Artificial Intelligence	Kisu Kwak (MiraeOcean Corporation); Kyu-Han Kim (Catholic Kwandong University); Chi-ok An (MiraeOcean Corporation); Byung-sun Cho (MiraeOcean Corporation); Young-eun An (MiraeOcean Corporation)
09:45-10:00	204-Stability Analysis of Sunken Vessel for Artificial Reef Use	Hyun Dong Kim (The World Association for Waterborne Transport Infrastructure(PIANC) ); Kyu-Han Kim (Catholic Kwandong University); Hyumin Oh (Kanto Gakuin University)
	97-Optimization of an Offshore Wind Jackets Manufacturing Project through an Investment Analysis using 3D Discrete-Event Simulation	Adolfo Lamas (Navantia, S.A., S.M.E.); Santiago José Tutor Roca (UMI Navantia-UDC); Inés Taracido (Navantia, S.A., S.M.E.)
	94-Determination of wind energy potential and evaluation of the feasibility analysis of a wind turbine via RETScreen for Çerkezköy, Turkey	Ahmet Erhan Akan (Tekirdağ Namık Kemal University); Aytac Perihan Akan (Hacettepe University)
	SESSION 2A Characterization of Photovoltaics	Session Chair: Dr. Yasemin Oztekin Ciftci
10:35-10:50	155-High Strength and Lightweight Steel Profiles Used in the Installation of Photovoltaic Systems	Celal Erkal Kahraman (Özkan Demir Çelik Sanayi A.Ş.); Hakan Erçay (Özkan Demir Çelik Sanayi A.Ş.); Tuncay Dikici (International Advanced Researches and Engineering Congress)
	182-Optoelectronic Properties of Zn doped Lead free photovoltaic CsSnI3 compound	Yasemin Oztekin Ciftci (Gazi University)
	180-Physical Properties of newly synthesized superconductor compound LaNiGe via Ab-initio calculatios	Yasemin Oztekin Ciftci (Gazi University); ilknur Kars Durukan (Gazi University)
11:20-11:35	181-Pressure-induced Effects on Phase Transition Elastic Properties, Electronic, Vibrational and Thermodynamic Properties of CeAs Compound : Ab-initio S	Yasemin Oztekin Ciftci (Gazi University); ilknur Kars Durukan (Gazi University)
	200-p-n heterojunction diode based on TiO2/p-Si	Betül Sekertekin (Ankara Yıldırım Beyazıt University), Kenan Ozel (Ankara Yıldırım Beyazıt University), Abdullah Yıldız (Ankara Yıldırım Beyazıt University)
11.00 11.00	SESSION 3A Energy and environmental management	Session Chair: Dr. Alan Lolaev
11:55-12:10	2-Towards integration of carbon capture and storage approaches in waste processing technologies	Maris Klavins (University of Latvia), Dmitry Porshnov (University of Latvia)
	30-Promissing HDR project in the North Caucasus	Alan B Lolaev (VSC RAS; NOSU); Anatoly Gurbanov (IGEM, VSC RAS); Victor Gazeev (IGEM, VSC RAS); Aleksey Lexin (IGEM RAS); Aleksan Oganesyan (NCIMM, VSC RAS)
	23-Renewable energy supply chain network design	Name & Luise V. Asia, NO.30), Aniating during indexing (Inchining, No. 14), No. 14, No
12.23-12.40	25-kenewadie energy supply chain network design	Daduet A. ARY-AMINI (Defined University), Markawa Menkay in Leanu Gurestayyi, Noura A. (Lanu Gurestayyi), Noura A. (Lanu Gure
12:40-12:55	92-Torrefaction and Carbonization of Water Hyacinth Stems and Leaves: Impact on Energy	(Tokyo institute of Technology); Ahmed Elwardany (Egypt-Japan University of Science and Technology (E-JUST))
12:55-13:10	88-Clean power generation: environmentally friendly lubrication products and pollution prevention	Helena M Wilhelm (Vegoor Tecnologia Aplicada); Paulo Fernandes (Vegoor Tecnologia Aplicada); Lais Dill (Vegoor Tecnologia Aplicada); Camila Steffens (Vegoor Tecnologia
12.55-15.10	de clean power generation. Chivionimentally inchary toolseed in products and policion prevention	AplicadaR); Kethlyn Moscon (Vegoor Tecnologia Aplicada); Luana Moreira (Vegoor Tecnologia Aplicada); Thiago Zanin (COPEL)
		BREAK
	KEYNOTE SESSION 1A	
	Prof. Dr. Birol Kılkış - Ostim Technical University, Ankara, Turkey	
	Is exergy destruction minimization is the same thing with energy efficiency maximization?	
14:00-15:30	Prof. Dr. Sanjeevikumar Padmanaban - Department of Energy Technology, Aalborg University, Denmark	Session Chair: Prof. Dr. Erol KURT
	A State-of-The-Art: DC-to-DC Converters for Fuel Cell Vehicular Power Train – Power Electronics in Fuel Cell Technology	
	Assoc. Prof. Dr. Selami Balcı - Department of Electrical Electronics Engineering, Karamanoglu Mehmetbey University, Turkey	
	The Co-Simulation Studies of the Power Electronic Circuits with FEA Software	
	SESSION 4A Energy Harvesters	Session Chair: Dr. Işıl Kaymaz
15:35-15:50	221-MPPT System Implementation for A Piezoelectric Energy Harvester	Davut Özhan (Artuklu University), Erol Kurt(Gazi University)
15:50-16:05	220-Comparison of the Efficiency Values of the Rectifiers Used in the RF Energy Harvesting Systems	Kayhan Celik (Gazi University), Erol Kurt(Gazi University)
16:05-16:20	45-Energy Harvesting Through Landscape Design	lşıl Kaymaz (Ankara University); Ecem Hoşgör (Ankara University)
16:20-16:35	156-The use of ZnO thin films as a friction layer in energy harvesting	Gizem Durak Yüzüak (Recep Tayyip Erdoğan University); Seray Özkan (Recep Tayyip Erdoğan University); Ercüment Yüzüak (Recep Tayyip Erdoğan University)
16:35-16:50	47-A two-step metal-assisted chemical etching process for formation of silicon nanowires based black silicon	Hazem ElGhonimy (King Saud University); Talal Albuqami (King Saud University); Ahmed ElNaggar (King Saud University); Mohamed Ramy (King Saud University)
	SESSION 5A Advances in Power Electronics	Session Chair: Fabio Silva
46.55.47.40	EA Design of 2021 have design because the side of the	Nagi Reddy Bandi (Vignana Bharathi Institute of Technology, Hyd), Prasanna Chunduru(Vignana Bharathi Institute of Technology, Hyd), Surya Prakash Jalli(Vignana Bharathi
16:55-17:10	54-Design of 2S2L based buck - boost converter with wide conversion range	
		Institute of Technology, Hyd), Akshay Reddy Bobbala(Vignana Bharathi Institute of Technology, Hyd), Dinesh Goud Kotha(Vignana Bharathi Institute of Technology, Hyd)
17:10-17:25	138-An Averaged Large-Signal Model Method of DC-DC Isolated Forward Resonant Reset Converter Based on Solar Cells Battery Charger for IoT	Wachiravit - Pattarapongsathit (King Mongkut's University of Techmology North Bangkok), Bilsalam Anusak (King Mongkut's University of Techmology North Bangkok)
17:10-17:25 17:25-17:40	138-An Averaged Large-Signal Model Method of DC-DC Isolated Forward Resonant Reset Converter Based on Solar Cells Battery Charger for IoT Annilication.  34-System Integration and Data Models to Support Smart Grids Energy Trading	
	Annlication	Wachiravit - Pattarapongsathit (King Mongkut's University of Techmology North Bangkok), Bilsalam Anusak (King Mongkut's University of Techmology North Bangkok) Fabio R Silva (International Energy Research Centre (IERC)); Foin O'Leidhin (International Energy Research Centre (IERC)); Farah Tahir (International Energy Research Centre
17:25-17:40 17:40-17:55	Anniication.  34-System Integration and Data Models to Support Smart Grids Energy Trading  121-Issues of renewable energy sources with on-grid type inverter connected to an off-grid system	Wachiravit - Pattarapongsathit (King Mongkut's University of Techmology North Bangkok), Bilsalam Anusak (King Mongkut's University of Techmology North Bangkok)  Fabio R Silva (International Energy Research Centre (IERC)); Eoin O'Leidhin (International Energy Research Centre (IERC)); Farah Tahir (International Energy Research Centre (IERC)); Karen Mould (International Energy Research Centre (IERC)); Brian O'Regan (International Energy Research Centre (IERC))
17:25-17:40 17:40-17:55	Annilication.  34-System Integration and Data Models to Support Smart Grids Energy Trading  121-Issues of renewable energy sources with on-grid type inverter connected to an off-grid system  59-Estimating of the Output Voltage Parameters for T-type Inverter with ANN	Wachiravit - Pattarapongsathit (King Mongkut's University of Techmology North Bangkok), Bilsalam Anusak (King Mongkut's University of Techmology North Bangkok)  Fabio R Silva (International Energy Research Centre (IERC)); Eoin O'Leidhin (International Energy Research Centre (IERC)); Farah Tahir (International Energy Research Centre (IERC)); Brian O'Regan (International Energy Research Centre (IERC))  (IERC)); Karen Mould (International Energy Research Centre (IERC))  Mantas Zelba (Kaunas University of Technology); Tomas Deveikis (Kaunas University of Technology); Justinas Barakauskas (Kaunas University of Technology)  Oleg Ya Olikh (Taras Shevchenko National University of Kyvi); Oleg Lozitsky (Taras Shevchenko National University of K
17:25-17:40 17:40-17:55 17:55-18:10	Annilication  34-System Integration and Data Models to Support Smart Grids Energy Trading  121-Issues of renewable energy sources with on-grid type inverter connected to an off-grid system  59-Estimating of the Output Voltage Parameters for T-type Inverter with ANN  SESSION 6A Thermodynamical Issues	Wachiravit - Pattarapongsathit (King Mongkut's University of Techmology North Bangkok), Bilsalam Anusak (King Mongkut's University of Techmology North Bangkok)  Fabio R Silva (International Energy Research Centre (IERC)); Eoin O'Leidhin (International Energy Research Centre (IERC)); Farah Tahir (International Energy Research Centre (IERC)); Barah Call (IERC)); Barah Call (IERC); Barah Call (IERC)); Barah Call (IERC))  Mantas Zelba (Kaunas University of Technology); Tomas Deveikis (Kaunas University of Technology); Justinas Barakauskas (Kaunas University of Technology)  Olig Ya Olikh (Taras Shevchenko National University of Kyiv); Oleg Lozitsky (Taras Shevchenko National University of Kyiv); Olesii Zavhorodnii (Taras Shevchenko National University of Kyiv)  Session Chair: Dr. Hasan Köten
17:25-17:40 17:40-17:55 17:55-18:10 18:15-18:30	Annilication.  34-System Integration and Data Models to Support Smart Grids Energy Trading  121-Issues of renewable energy sources with on-grid type inverter connected to an off-grid system  59-Estimating of the Output Voltage Parameters for T-type Inverter with ANN	Wachiravit - Pattarapongsathit (King Mongkut's University of Techmology North Bangkok), Bilsalam Anusak (King Mongkut's University of Techmology North Bangkok) Fabio R Silva (International Energy Research Centre (IERC)); Eoin O'Leidhin (International Energy Research Centre (IERC)); Farah Tahir (International Energy Research Centre (IERC)); Brain O'Regan (International Energy Research Centre (IERC)) Mantas Zelba (Kaunas University of Technology); Tomas Deveikis (Kaunas University of Technology); Justinas Barakauskas (Kaunas University of Technology) Oleg Ya Olikh (Taras Shevchenko National University of Kyn); Oleg Lozitsky (Taras Shevch
17:25-17:40 17:40-17:55 17:55-18:10 18:15-18:30 18:30-18:45	Annication  34-System Integration and Data Models to Support Smart Grids Energy Trading  121-Issues of renewable energy sources with on-grid type inverter connected to an off-grid system  59-Estimating of the Output Voltage Parameters for T-type Inverter with ANN  SESSION 6A Thermodynamical Issues  32-The Impact of Radiant Heating on the Performance of Sustainable Constructional Component under Elevated Temperature: Part 2	Wachiravit - Pattarapongsathit (King Mongkut's University of Techmology North Bangkok), Bilsalam Anusak (King Mongkut's University of Techmology North Bangkok) Fabio R Silva (International Energy Research Centre (IERC)); Eoin O'Leidhin (International Energy Research Centre (IERC)); Farah Tahir (International Energy Research Centre (IERC)); Barah Tahir (International Energy Research Centre (IERC)) Mantas Zelba (Kaunas University of Technology); Tomas Develkis (Kaunas University of Technology); Justinas Barakauskas (Kaunas University of Technology) Oleg Ya Olikh (Taras Shevchenko National University of Kyiv); Oleg Lozitsky (Taras Shevchenko National University of Kyiv); Oleskii Zavhorodnii (Taras Shevchenko National University of Kyiv)  Session Chair: Dr. Hasan Köten Wail Nourildean Al-Rifaie (Philadelphia University, Amman-Jordan); Talal Alhajri (Gulf University); Waleed Ahmed (UAE University) Nikolay kharlamov Khalamov (National Research University of Electronic Technology), Andrei Sergeevich Riabyshenkov (National Research University of Electronic Technology), Valery Ivanovich Karakeyan (National Research University of Electronic Technology), Mikhail Aleksandrovich Gundartsev (National Research University of Electronic Technology) David Huber (TU Wien); Viktoria Illyes (TU Wien); Veronika Turewicz (Geological Survey of Austria); Stefan Hoyer (Geological Survey of Austria); Gregor Götzl (Geological Survey of Austria); Karl Ponweiser (TU Wien)
17:25-17:40 17:40-17:55 17:55-18:10 18:15-18:30 18:30-18:45 18:45-19:00 19:00-19:15	Annication.  34-System Integration and Data Models to Support Smart Grids Energy Trading  121-Issues of renewable energy sources with on-grid type inverter connected to an off-grid system  59-Estimating of the Output Voltage Parameters for T-type Inverter with ANN  SESSION 6A Thermodynamical Issues  32-The Impact of Radiant Heating on the Performance of Sustainable Constructional Component under Elevated Temperature: Part 2  40-Exergy assessment of the energy efficiency of the clean room air treatment system	Wachiravit - Pattarapongsathit (King Mongkut's University of Techmology North Bangkok), Bilsalam Anusak (King Mongkut's University of Techmology North Bangkok) Fabio R Silva (International Energy Research Centre (IERC)); Eoin O'Leidhin (International Energy Research Centre (IERC)); Farah Tahir (International Energy Research Centre (IERC)); Karen Mould (International Energy Research Centre (IERC)); Mantas Zelba (Kaunas University of Technology); Tomas Deveikis (Kaunas University of Technology); Justinas Barakauskas (Kaunas University of Technology) Oleg Ya Olikh (Taras Shevchenko National University of Kyiv); Oleg Lozitsky (Taras Shevchenko National University of Kyiv); Oleksii Zavhorodnii (Taras Shevchenko National University of Kyiv)  Session Chair: Dr. Hasan Köten  Wail Nourildean Al-Rifaie (Philadelphia University, Amman-Jordan); Talal Alhajri (Gulf University); Waleed Ahmed (UAE University) Nikolay Kharlamov (National Research University of Electronic Technology), Valery Ivanovich Karakeyan (National Research University of Electronic Technology), Mikhail Aleksandrovich Gundartsev (National Research University of Electronic Technology), Valery Ivanovich Research University of Electronic Technology), Valeria Pavlovna Sharaeva (National Research University of Electronic Technology) David Huber (TU Wien); Viktoria Illyes (TU Wien); Veronika Turewicz (Geological Survey of Austria); Stefan Hoyer (Geological Survey of Austria); Gregor Götzl (Geological Survey)

	1. DAY	(21 April 2021) - HALL B
	SESSION 1B Optimization of Energy Systems	Session Chair: Dr. Evgenii Denisov
09:15-09:30	137-Use of synthesis gas as fuel for a solid oxide fuel cell	Jesus Antonio Alvarez-Cedillo (National Polytechnic Institute); Teodoro Alvarez-Sanchez (National Polytechnic Institute); Mario Aguilar Fernandez (National Polytechnic Institute)
09:30-09:45	153-Application of PEMFC electrical fluctuation for in-situ diagnostics	Evgenii Denisov (Kazan National Research Technical University )
	41-Deep-learning approach to the iron concentration evaluation in silicon solar cell	Oleg Ya Olikh (Taras Shevchenko National University of Kyiv); Oleg Lozitsky (Taras Shevchenko National University of Kyiv); Oleksii Zavhorodnii (Taras Shevchenko National University of Kyiv)
10:00-10:15	48-Performance investigation of an integrated solar-powered RO/Adsorption cooling trigeneration system.	Ahmed A Hassan (Egypt-Japan University of Science and Technology (E-JUST)); Ahmed Elwardany (Egypt-Japan University of Science and Technology (E-JUST)); Ibrahim El-Sharkawy (Egypt-Japan University of Science and Technology (E-JUST))
10:15-10:30	77-Enhancing the flexibility of electricity generation and heating for Kızıldere II geothermal power plant by demonstrating heat storage systems	Elie Ghanatos (CEA Grenoble); Sylvie Rouge (CEA Grenoble); Jérôme Pouvreau (CEA Grenoble); Ural Halaçoğlu (Zorlu Energy Group); Hakan Alp Sahiller (Zorlu Energy Group); Raziye Sengun (Zorlu Energy); Ismail Pekdüz (Zorlu Energy Group); Valdimarsson Pall (Reykjavik University); Sebastian Gamisch (Fraunhofer, Institute for Solar Energy Systems ISE); Mayra Paulina Alferez Luna (Fraunhofer, Institute for Solar Energy Systems ISE); Shiladitya Paul (TWI); Alexander Sabard (TWI); Francesco Fanichia (TWI); Oklona (Sirk) (Rothan Kirkil (Kadir Has University); Emilien BAUDOUN (Naldeo)
	SESSION 2B Energy Efficiency in Buildings	Immunity and vive, releasance about two processors are considered to the constraint of the constraint
10:35-10:50	37-Performance Assessment of The Windows Glazing System for The Office Building	Pinar Usta (Isparta University of Applied Science); Başak Zengin (Nisantasi University)
10:50-11:05	55'-Hybrid Dedicated Outdoor Air System in Buildings	Darrast Tongde (Naresuan University); Somchai Maneewan (Naresuan University); Chantana Punlek (Naresuan University)
	, ,	Filiz Bal Kovigit (Attilim University); Baris Kovjejit (Attilim University); Baris Kovjejit (Attilim University); Baris Kovjejit (Attilim University); Baris Kovjejit (Attilim University);
11:05-11:20	142-The importance of natural insulation building materials in sustainable energy efficient buildings	Elmas Pak (Izmir Bakırçay University); Ece Dinç (Atlim University); Oğuz Emrah Turgut (Izmir Bakırçay University); Cabit Canberk (Izmir Bakırçay University); Gilsen Bilge Ülkü (Atlim University); Ercan Köse (Tarsus Universty); Oğuz Emrah Turgut (İzmir Bakırçay University); Elmas Pak (İzmir Bakırçay University); Elmas Pak (İzmir Bakırçay University); Oğuz Emrah Turgut (İzmir Bakırçay University); Elmas Pak (İzmir Bakırçay University); Oğuz Emrah Turgut (İzmir Bakırçay University); Elmas Pak (İzmir Bakırçay University); Oğuz Emrah Turgut (İzmir Bakırçay University); Elmas Pak (İzmir Bakırçay University); Oğuz Emrah Turgut (İzmir Bakırçay University); Elmas Pak (İzmir Bakırçay University); Oğuz Emrah Turgut (İzmir Bakırçay University); Elmas Pak (İzmir Bakırçay University); Oğuz Emrah Turgut (İzmir Bakırçay University); Elmas Pak (İzmir Bakırçay University); Oğuz Emrah Turgut (İzmir Bakırçay University); Elmas Pak (İzmir Bakırçay University); Oğuz Emrah Turgut (İzmir Bakırçay University); Elmas Pak (İzmir Bakırçay University); Oğuz Emrah Turgut (İzmir Bakırçay University); Elmas Pak (İzmir Bakırçay University); Oğuz Emrah Turgut (İzmir Bakırçay University); Elmas Pak (İzmir Bakırçay University); Oğuz Emrah Turgut (İzmir Bakırçay University); Elmas Pak (İzmir Bakırçay University); Elmas Pak (İzmir Bakırçay University); Oğuz Emrah Turgut (İzmir Bakırçay University); Elmas Pak (İzmir Bakırçay University); Oğuz Emrah Turgut (İzmir Bakırçay University); Elmas Pak (İzmir Bakırçay University); Oğuz Emrah Turgut (İzmir Bakırçay University); Oğuz Emrah Turgut (İzmir Bakırçay University); Elmas Pak (İzmir Bakırçay University); Oğuz Emrah Turgut (İzmir Bakırçay University); Oğuz Emrah Turgut (İzmir Bakırçay University); Oğuz Emrah Turgut (İzmir Bakırçay University); Oğuz Emrah Turgut (İzmir Bakırçay University); Oğuz Emrah Turgut (İzmir Bakırçay University); Oğuz Emrah Turgut (İzmir Bakırçay University); Oğuz Emrah Turgut (İzmir Bakırçay University); Oğuz Emrah Turgut (İzmir Bakırçay University); Oğuz Emrah Turgut (İzmir Bak
11:20-11:35	144-The place of biopolymer-based composites in energy-efficiency architectural design	University); Hatice Mehtap Öz (Tarsus University); Cahit Canberk (İzmir Bakırçay University); Ece Dinç (Atilim University); Baris Koçyigit (Atilim University)
		George T Stiublanu (Petru Poni Inst. of Macromolecular Chemistry); Alexandra Bargan (Petru Poni Inst. of Macromolecular Chemistry); Mihaela Dascalu (Petru Poni Inst. of
11:35-11:50	166-Bioinspired polymer materials for thermal management of heating and cooling in buildings	Macromolecular Chemistry); Carmen Racles (Petru Poni Inst. of Macromolecular Chemistry); Adrian Bele (Petru Poni Inst. of Macromolecular Chemistry); Codrin Tugui (Petru Poni Institute of Macromolecular Chemistry); Cristian Ursu (Petru Poni Institute of Macromolecular Chemistry); Maria Cazacu (Petru Poni Institute of Macromolecular Chemistry)
	SESSION 3B Materials Characterization	Session Chair: Dr. Sibel Yılmaz Ekinci
11:55-12:10	52-Testing the Abrasion Resistance of Broadband Anti-reflection Coatings for Solar Modules	Sibel Yilmaz Ekinci (Duzce University); Adam Michael Law (Loughborough University); John Michael Walls (Loughborough University)
12:10-12:25	86-Ageing effect evaluation of PV installation after 10 years continuous operation	Nikolay Tyutyundzhiev (Institute of Electronics, Bulgarian Academy of Sciences); Plamen Tsankov (Technical university of Gabrovo); Konstantin Lovchinov (Bulgarian Academy of Sciences); Gergana Alexieva (Sofia University, Faculty of Physics)
12:25-12:40	177-Evaluation of Mechanical and Thermodynamic Properties of BaZn compound by DFT	ilknur Kars Durukan (Gazi University); Yasemin Oztekin Ciftci (Gazi University)
12:40-12:55	178-Ab initio Calculations of the Mechanical Vibration and bond Nature of the CdSr Compound	ilknur Kars Durukan (Gazi University); Yasemin Oztekin Ciftci (Gazi University)
12:55-13:10	193-Molarity of precursor dependent morphological properties hydrothermally grown TiO2 films	Aycan Atlı (Ankara Yıldırım Beyazıt University); Abdullah Yıldız (Ankara Yıldırım Beyazıt University)
		BREAK
	SESSION 4B Advances in Batteries	Session Chair: Dr. Carlos Frajuca
15:35-15:50	61-Technological Forecasting for Electric Battery Technology in the Electric Vehicle Industry	Hasan Köten (Istanbul Medeniyet University)
15:50-16:05	124-Hybrid State of Charge Estimation of Lithium- Ion Batteries; Improvements on Electric Vehicle Battery management system	Odera N Ohazurike (Southern University and A&M College)
16:05-16:20	162-TCAD-Model of Betavoltaic Battery Structure withVertical Micro Trenches	Andrew A Pugachev (National Research University Higher School of Economics), Konstantin Petrosyants(National Research University Higher School of Economics), Igor Kharitonov(National Research University Higher School of Economics)
	172-Developing a Real-time Power Price Algorithm for an Autonomous Demand Side Management in Solar Community-grids with Battery Storage	Sebastian Finke (Bochum University of Applied Sciences); Michele Velenderic (Green Power Brains); Semih Severengiz (Bochum University of Applied Sciences)
16:35-16:50	173-Investigation of geometries for increasing the energy density in electromechanical battery flywheels	Daniel Coppede (UFABC); Souza Marco (IFSP); Renato Souza (IFABC); Wilson Silva Junior (IFSP); Roberto Duarte (IFSP); Fabio Bortoli (IFSP); Carlos Frajuca (IFSP)
	SESSION 5B Hybrid Energy Systems	Session Chair: Dr. Csaba Csaki
16:55-17:10	175-Modelling and control of a hybrid wind solar system optimized by Fuzzy Based MPPT controller	Mebrouk MM Mennad (Djillali Liabès University), Bentaallah Abderrahim(Djillali Liabès University), Djeriri Yousef(Djillali Liabès University), Ameur Aissa(Laghouat University), Bessas Aicha(Amar Telidji University)
17:10-17:25	168-Analysis and Optimizes of Hybrid wind and solar PV Generation system for off-grid Small Village	Nabaz Mohammedali Rasool Rasool (Cyprus International University), Serkan Abbasoğlu(Cyprus International University), Mehrshad Radmehr Hashemipour(Cyprus International University)
17:25-17:40	36-Artificial neural network forecasting models for wind and photovoltaic energy prediction utilizing time-series input data with different resolutions	Mutaz Alshafeey (Corvinus University of Budapest); Csaba Csaki (Corvinus University of Budapest)
17:40-17:55	62-New concepts and technologies for electrical machines and mechanical engineering	Amangeruy Zhunusuewov (Quminiyov Eurasiani wationar Oniversity), Aruani A. Sapanganyev(Quminiyov Eurasiani wationar Oniversity
17:55-18:10	96-Computational thermal-fluid coupling analysis of a variable nozzle turbine for solar power generation	Abdelmadjid Chehhat (Abbes Laghrour University ), Arrif Toufik(URAER), Mouna Maache(Abbes Laghrour University )
	SESSION 6B Materials Characterization	Session Chair: Dr. Hilal Kurt
18:15-18:30	195-The Fabrication of n-SnO2/p-Si Heterojunction Diode	Kenan ÖZEL (Ankara University), Abdullah Yildiz(Ankara Yıldırım Beyazıt University)
	202-Effect of substrate rotation speed on the optical, and electrical properties of TiO2/FTO blocking layer fabricated by Spin-Coating	Abdullah Atılgan (Ankara Yıldırım Beyazıt University); Abdullah Yıldız (Ankara Yıldırım Beyazıt University)
	205-High performance ion-exchange microporous zeolite material for application in the cold plasma device	Hilal Kurt (Gazi University), B.G. Salamov(Gazi University)
19:00-19:15	206-Filamentation in a plasma cell with GaP wafer	Hilal Kurt (Gazi University), B.G. Salamov(Gazi University)
	207-Mean Electron energy Distribution in a Plasma System with ZnSe	Hilal Kurt (Gazi University)
		(21 April 2021) - HALL C
	SESSION 1C Power electronic applications	Session Chair: Dr. Driada Mitrushi
	OLOGICA TO 1 ONG GLOGICATIO	Nagi Reddy Bandi (Vignana Bharathi Institute of Technology, Hyd), Sahithi Priya Kosika(Vignana Bharathi Institute of Technology, Hyd), Manish Patel Gadam(Vignana Bharathi
09:15-09:30	63-Analysis of positive output buck-boost topology with extended conversion ratio	Institute of Technology, Hyd), Jagadhishwar Banoth(Vignana Bharathi Institute of Technology, Hyd), Ashok Banoth(Vignana Bharathi Institute of Technology, Hyd), Srikanth  Koundinya(Vignana Bharathi Institute of Technology, Hyd)
09:30-09:45	148-Smart grid simulation based on high level architecture	Nounumyquygnana biaratun insitutuc un recumiongy, nyun Mulamama Majid Hussain (University of South Wales); Abdul Razaq (Abertay university); Muhammad Siddique (NFC IET Multan)
09:30-09:45	149-Contribution to the study of a DFIG wind energy generation system based on a quasi Z source inverter	windamina Majiu nussain (university in south waites), Audun Azada (Auetray university), mulaminad siduque (NFC IET Mulan) Larafa Altone (university Larbi Ben M'hidi oum El Baouaphi), Oudina Sofiane (university Mambamed Khider Biskra); Tahar Bahi (ACECS-2016 Chair)
10:00-10:15	154-Single-Phase Grid-Connected Inverter With High Frequency Isolation For DC Nano-Grids	Luis J Ruiz Caldera (Sonora Institute of Technology); José Antonio Beristáin Jiménez (Sonora Institute of Technology); Hiram Mendivil Cuadras (Sonora Institute of Technology); Javier Pérez Ramírez (Sonora Institute of Technology)
10:15-10:30	169-The possibility of integrating electricity through renewable sources in Sazani island	Driada Mitrushi (UPT, Polytechnic University of Tirana), Urim Buzra(UPT, Polytechnic University of Tirana), Daniela Topciu(Universitety of Elbasan), Eduart Serdari(University of
10.10		Vlora), Valbona Muda(UPT, Polytechnic University of Tirana)

	OF COLON CO. Physical Review Project	Party Refs D. L. Villand
	SESSION 2C Photovoltaic materials	Session Chair: Dr. Luigi Vesce
10:35-10:50	164-Towards high crystallinity and stable MASnI3 perovskite films treated with different antisolvents	Amal Bouich (Polytechnic University of Valencia), Shafi Ullah(Polytechnic University of Valencia), Julia Mari(Polytechnic University of Valencia), Asmaa Bouich(Ibn Tofail
		University), Bernabé Mari(Polytechnic University of Valencia), Mohamed Ebn Touhami(lbn Tofail University)
	222-Analysis of Atmospheric Transported Particulate Matter and Investigation of Its Effects on Solar Panel	Serdal Arslan (Harran University), Murat Altıntaş (Harran University)
	194-Semiflexible DSSCs based on ITO/PET substrates	irem Sütcü (Ankara Yıldırım Beyazıt University); Aycan Atlı (Ankara Yıldırım Beyazıt University); Abdullah Yıldız (Ankara Yıldırım Beyazıt University)
11:20-11:35	129-Effect of the three main directions of an external magnetic field on the free convection in Fe3O4- water nanofluid filled cubic enclosure	Maache Mouna Battira (Abbes Laghrour University), Chehhat Abdelmadjid (Abbes Laghrour University), Noui Samira(Elhadj Lakhdar University), Bessaih Rachid(Mentouri
11:35-11:50	87-Upscaling of perovskite solar cell technology by a semi-automatic blade-coating technique at ambient condition	Luigi Vesce (University of Rome Tor Vergata); Maurizio Stefanelli (University of Rome "Tor Vergata"); Luigi Angelo Castriotta (University of Rome "Tor Vergata"); Jan Philipp Herterich (Fraunhofer Leither Castriotta); Luigi Angelo Castriotta (University of Rome "Tor Vergata"); Luigi Angelo Castriotta (Univ
		Institute for Solar Energy Systems ); Markus Kohlstädt (Fraunhofer Institute for Solar Energy Systems); Uli Wuerfel (Fraunhofer); Aldo Di Carlo (CHOSE - Dept. Electr. Eng. University of Rome Tor
	SESSION 3C Energy optimization studies	Session Chair: Dr. Tapan Kumar Gogoi
11:55-12:10	74-Data Extraction of Perovskite Solar Cells materials by using Natural Language Processing tools	Mary Z Jiménez-Díaz (Industrial University of Santander); Cristan Camacho-Parra (Industrial University of Santander); Mónica Botero-Londoño (Industrial University of
		Santander); Franklin Sepúlveda-Sepúlveda (Industrial University of Santander); Camilo Otálora-Bastidas (Industrial University of Santander)
	76-Performance of a solar based combined power and cooling system under solar, solar storage and storage mode of operations	Tapan Kumar Gogoi (Tezpur University); Utpal Kumar Dutta (Tezpur University)
	116-A innovative methodology for visual impact assessment of wind power plants	Luciano Blois (University Guglielmo Marconi of Rome)
12:40-12:55	122-Improving the fatigue of newly designed mechanical system subjected to repeated food loading	Seongwoo Woo (Addis Ababa Science and Technology University)
12:55-13:10	170-Advanced exergoeconomic evaluation of a cogeneration system combined with a drying unit of fertilizers	Asmae Echeeri (Mohammadia School of Engineers, Mohammed V University in Rabat), Mostafa Maalmi (Mohammadia School of Engineers, Mohammed V University in Rabat)
		BREAK
	SESSION 4C Energy informatics & management	Session Chair: Dr. Serkan Erdem
		Maksim I Maksimov (Plekhanov Russian University of Economics); Vladimir Velikorossov (Plekhanov Russian University of Economics), Yury Korechkov(International Academy of Business and New
15:35-15:50	184-Innovative activity of integrated business structures	Technologies), Ona Grazyna Rakauskiene(Mykolas Romeris University), Anatoliy Kolesnikov (Plekhanov Russian University of Economics), Evgeniy Genkin (Plekhanov Russian University of
15:50-16:05	126-Energy Efficiency Improvement for the Mobile Air Conditioning Systems	Cenk Onan (Yildiz Technical University); Serkan Erdem (Yildiz Technical University)
	146-ESS influence investigation on the operation of critical network nodes	Virginijus Vasylius (Kaunas University of Technology)
	228-Developing a LoRa based IoT application for outdoor street lighting fault detection in smart cities	Eggim Çelik (Kahramanmaraş Sütçü İmam Üniversitesi); Mehmet Tekerek (Kahramanmaras Sütçüimam University)
	229-Soduim Doped Cadmium Telluride (CdTe:Na) Thin Films Prepared by the Spray Pyrolysis Method	Shadia J. Ikhmayies (Jordan)
10.33-10.30		
	2. DAY (2	22 April 2021) - HALL A
	SESSION 1A - Special Session (Advances in wind, photovoltaic and harvesting systems)	Session Chair: Dr. Jose Manuel Lopez-Guede
		Felipe A. Núñez-Donoso (Technological University of Chile INACAP); Jose Manuel Lopez-Guede (University of the Basque Country); Ekaitz Zulueta (University of the Basque
09:00-09:15	213-Electric Vehicle Energy Efficiency Contribution through Laboratory Implementation	Country); Unai Fernandez-Gamiz (University of the Basque Country); Josean Ramos-Hernanz (University of the Basque Country)
		lifigo Aramendia (University of the Basque Country), Joseba Martinez-Lopez (University of the Basque Country), Unai Fernandez-Gamiz (University of the Basque Country), Mirko
09:15-09:30	214-Computational Modeling of a 2D Vanadium Redox Flow Battery Cell	Messaggi (Politecnico di Milano), Matteo Zago (Politecnico di Milano), Ekaitz Zulueta (University of the Basque Country), Jose Manuel Lopez-Guede (University of the Basque
		Javier Olarte(CIC energiGUNE), , Jaione Martinez de llarduya(Bcare), Ekaitz Zulueta(University of the Basque Country), Raquel Ferret(CIC energiGUNE), Unai Fernández-
09:30-09:45	215-Automatic identification algorithm of equivalent electrochemical circuit based on electroscopic impedance data for a lead acid battery	Gámiz(University of the Basque Country),Jose Manuel Lopez-Guede (University of the Basque Country)
<b>-</b>		Javier Olarte(CIC energiGUNE), Jaione Martínez de llarduya(Bcare), Ekaitz Zulueta(University of the Basque Country), Raquel Ferret(CIC energiGUNE), Unai Fernández-
09:45-10:00	216-Multipurpose sensor designed to monitor electrochemical parameters of 12 V lead acid battery blocks	Gámiz(University of the Basque Country), Jose Manuel Lopez-Guede (University of the Basque Country)
	220 Walkipurpose sensor designed to monitor electroenemical parameters of 22 v lead acid battery blocks	Alejandro Ballesteros-Coll(University of the Basque Country), Koldo Portal-Porras(University of the Basque Country), Unai Fernandez-Gamiz(University of the Basque Country),
10:00-10:15	217-Cell-set modelling of an Active Rotating Microtab on a DU91W(2)250 airfoil	Inligio Aramendia (University of the Basque Country), Ekaitz Zulueta (University of the Basque Country), Jose Hannel Lopez-Guede (University of the Basque Country)
-	227 Cell set modelling of an Active Notating Wicrotab On a 5051W(2)250 amon	Decebal Aitor Ispas-Gii, Asier Zulueta (University of the Basque Country), Edite Zulueta (University of the Basque Country), Unai Fernández-Gámiz (University of the Basque Country), University of the Basque Country), University of the Basque Country (University of the Basque Country), University of the Basque Country (University of the Basque Country), University of the Basque Country (University of the Basque Country), University of the Basque Country (University of the Basque Country), University of the Basque Country (University of the Basque Country), University of the Basque Country (University of the Basque Country), University of the Basque Country (University of
10:15-10:30	218-Automatic optimization algorithm for electrical energy contracts in Spanish market	December Anton Ispara-on, Asia: Funded (University of the Basque Country), Jose Manuel Looez-Guede (University of the Basque Country), Jose Manuel Looez-Guede (University of the Basque Country)
	SESSION 2A Nano-scale production and testing	Session Chair: Dr. Abdullah Yıldız
10:35 10:50	209-Gas discharge systems with CdSe electrode	Selçuk U Utaş (Gazi University), H. Hilal Kurt(Gazi University)
	210-Theoretical plasma simulation results of the microdischarge cell with GaSb cathode	Selçuk U Utaş (Gazi University), H. Hilal Kurt(Gazi University)
	212-Dependence of solution molarity on structural, optical, and electrical properties of spin coated TiO2/FTO films	Abdullah Atilgan (Ankara Yildırım Beyazıt University); Abdullah Yildız (Ankara Yildırım Beyazıt University)
	196-The Investigation of UV detection performance of SnO2/p-Si Heterojunction	Kenan Özel (Ankara University), Abdullah Yıldız (Ankara Yıldırım Beyazıt University)
	201-Various receipts TiO2 based pastes for semi-flexible DSSCs	Abdullah Atılgan (Ankara Yıldırım Beyazıt University); İrem Sütçü (Ankara Yıldırım Beyazıt University); Abdullah Yıldız (Ankara Yıldırım Beyazıt University)
		Session Chair: Dr. Elżbieta Szafranko
	157-Assessment of energy saving possibilities in construction with the use of solutions based on renewable energy sources	Elżbieta Szafranko ( University of Warmia and Mazury in Olsztyn)
	158-An attempt to assess the correctness of assembly and geometry of solar panels using laser scanning	Elżbieta Szafranko ( University of Warmia and Mazury in Olsztyn); Joanna A. Pawłowicz ( University of Warmia and Mazury in Olsztyn)
	183-The impact of the external environment on energy consumption in residential ventilation and air-conditioning systems on the example	Aldona Skotnicka-Siepsiak (University of Warmia and Mazury in Olsztyn)
	of north-eastern Poland	
	185-Analysis of the actual and standard consumption of thermal energy in buildings	Piotr Bogacz (University of Warmia and Mazury in Olsztyn)
12:55-13:10	186-Differential settlement of pile foundation for wind turbine tower on multilayered subsoil	Ireneusz Dyka (University of Warmia and Mazury); Jolanta Harasymiuk (University of Warmia and Mazury)
		BREAK
	KEYNOTE SESSION 2A	
	Prof. Dr. Sudan Jha - Department of Computer Science and Engineering, Chandigarh University, India	
14:00-15:00	IoT with Green Energy	Session Chair: Prof. Dr. Erol Kurt
	Assoc. Prof. Dr. Sertaç Bayhan - College of Science and Engineering, Hamad Bin Khalifa University, Doha, Qatar	
	Next-Generation Smart Grids: Power Electronics Dominated Power System	
	SESSION 4A Electric machines	Session Chair: Dr. Sara Zerdani
15:05-15:20	31-ITSW fault detection based PSD and SVM for PM Synchronous Motor	Sara Zerdani (University Med First Oujda), Larbi Elhafyani Mohamed(University Med First Oujda), Zouggar Smail (University Med First Oujda)
15:20-15:35	60-Estimating of the Leakage Inductance Value for Single-Phase Isolation Transformer with ANFIS	Büşra Aslan (Karamanoğlu Mehmetbey University); Selami Balcı (Karamanoğlu Mehmetbey University); Ahmet Kayabaşı (Karamanoglu Mehmetbey University)
	99-On Minimization of the Group Variability of Intermittent Renewable Generators	Dubravko Sabolić (University of Zagreb); Roman Malarić (University of Zagreb)
	128-The Magnetic Saturation effect on fault diagnosis in Squirrel Cage Induction Motor using Current Park's Vector pattern	Chaouch A Abdellah (Mostaganem University), Belaid Mohamed(Mostaganem University), Meflah Abderrahmane Mohamed Reda(Mostaganem University)
	198-Iterative EKF-Based parameters estimation algorithm for nonlinear PMSM model	Artun Sel (TOBB University of Economics and Technology), Cosku Kasnakoglu (TOBB University of Economics and Technology)
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Session SA Energy Policy and Future Estimation  16:25-16:40  16:25-16:40  16:40-16:55  29-Techno-Economic feasibility analysis of PV potential with passive cooling in the desert climate  16:40-16:55  39-Technological ecovillages: Auto Sustainable Urban Pilots in the Community of Lucanayacu in Chazuta, San Martin, Peru.  16:55-17:10  44-The increasing importance of smarthome applications as a major trend for the future value creation of German energy companies  17:10-17:25  17:10-17:25  199-Algorithms for ESS reinforced RES portfolio bidding in Turkish Energy Markets  17:45-18:00  18:30-18:45  18:30-18:45  89-Distance Protection Based on the Synchrophasor Data in Control Room  Session Chair: Dr. Gumercindo Bartra (Dniversity); Garla AlZonbia (Brussels Free University)  Fahad AlAmri (Imam Abdulrahman Bin Faisa Gardini  Fahad AlAmri (Imam Abdulrahman Bin Faisa Gardini  Fahad AlAmri (Imam Abdulrahman Bin Faisa Gardini  Fahad AlAmri (Imam Abdulrahman Bin Faisa Gardini  Fahad AlAmri (Imam Abdulrahman Bin Faisa Gardini  Fahad AlAmri (Imam Abdulrahman Bin Faisa Gardini  Fahad AlAmri (Imam Abdulrahman Bin Faisa Gardini  Gumercindo G Bartra (Pontficia Carbolic University) of Peru); Nerida del Carmen Pastrana (University) Nacional Hermilio Valdizan); Enzo You Carbon Gardini  Andreas Ensinger (Aalen University); Max-Robert Salzer (Aalen University); Karlheinz Bozem (Aalen University); Anna Nagi (Aalen University); Bruce Wood (Glasgow Caledonian University); Bruce Wood (Glasgow Caledonian University); Bruce Wood (Glasgow Caledonian University); Bruce Wood (Glasgow Caledonian University); Bruce Wood (Glasgow Caledonian University); Bruce Wood (Glasgow Caledonian University); Bruce Wood (Glasgow Caledonian University); Bruce Wood (Glasgow Caledonian University); Bruce Wood (Glasgow Caledonian University); Bruce Wood (Glasgow Caledonian University); Bruce Wood (Glasgow Caledonian University); Bruce Wood (Glasgow Caledonian University); Bruce Wood (Glasgow Caledonian University); Bruce Wood (Glasgow Caledonian University); Bruc	
16:40-16:55 95-Technological ecovillages: Auto Sustainable Urban Pilots in the Community of Llucanayacu in Chazuta, San Martin, Peru.  16:55-17:10 44-The increasing importance of smarthome applications as a major trend for the future value creation of German energy companies  17:10-17:25 5-Establishing Reduced Thermal Mathematical Model (RTMM) For A Space Equipment  17:25-17:40 199-Algorithms for ESS reinforced RES portfolio bidding in Turkish Energy Markets  17:45-18:00 39-Wireless Charging Systems for Electric Vehicles: Review article  17:45-18:00 39-Wireless Charging Systems for Electric Vehicles: Review article  18:00-18:15 50-Development of Energy Saving System Based on Microcontroller for Boiler Manufacturer  18:15-18:30 70-Development Of An Adaptive Control System For A Hot Water Supply Using Solar Power Plant  18:15-18:30 89-Wireless Charging Systems (Responsible Urban Pilots in the Community of Llucanayacu in Chazuta, San Martin, Peru.  40-Indicated Catholic University); MacReport Salzer (Aalen University); Karlheinz Bozem (Aalen University); Anna Nagl (Aalen University); Budaka Ensinger (Aalen University); Budaka Ensinger (Aalen University); Budaka Ensinger (Aalen University); Budaka Ensinger (Aalen University); Budaka Ensinger (Aalen University); Budaka Ensinger (Aalen University); MacReport Salzer (Aalen Unive	
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18:15-18:30 70-Development Of An Adaptive Control System For A Hot Water Supply Using Solar Power Plant Yury Koshlich (BSTU after V.G. Shukhov); Vasily Stan (BSTU after V.G. Shukhov); Nadezhda Koshlich (Belgorod State Agricultural Universit Belousov (BSTU after V.G. Shukhov)	
18:15-18:30 70-Development Of An Adaptive Control System For A Hot Water Supply Using Solar Power Plant Belousov (BSTU after V.G. Shukhov)	
	y Named after V. Gorin); Aleksandr
18:45-19:00 35-Power Control Strategy of a Photovoltaic System Bedoud Khouloud (Research Center in Industrial Technologies ), Bahi Tahar(Badji Mokhtar University), Merabet Hichem (Research Center	in Industrial Technologies )
2. DAY (22 April 2021) - HALL B	
SESSION 1B Energy Perspectives Session Chair: Dr. Maria Koukou	
Vladimir Kolibaba(Nanovo Power Engineering Institute), Konstantin Zhabin(Branch of JSC "SO UES" ODU Center), Vladimir Velikorossov(Pl	akhanov Russian University of
09:00-09:15 114-Economic aspects of market formation reactive power in electric power industry Economics), Sergey A filin (Plekhanova Russian University of Economics), Sergey A filin (Plekhanova Russian University of Economics).	
93:09-93:0 103-Assessments of Global Warming Potential of Brazilian Biodiesel Marina W Costa (Federal University of Santa Catarina), Amir Oliveira (Federal University of Santa Catarina)	riekilatiov kussiati offiversity of
109-13-09:30 109-Assessments or Global warming Potential or Brazilian Biodieser Marina W. Osca (Pederal Oniversity or Santia Catarina), Amin' Oniv	ens): Stauros D. Anagnostatos (METDO
93-Energetic and financial evaluation of a solar-powered absorption chiller integration into a CO2 commercial refrigeration system  S.A.); Maria K. Koukou (National and Kapodistrian University of Athens); Michail Gr. Vrachopoulos (National and Kapodistrian University of Athens); Michail Gr. Vrachopoulos (National and Kapodistrian University of Athens); Michail Gr. Vrachopoulos (National and Kapodistrian University of Athens); Michail Gr. Vrachopoulos (National and Kapodistrian University of Athens); Michail Gr. Vrachopoulos (National and Kapodistrian University of Athens); Michail Gr. Vrachopoulos (National and Kapodistrian University of Athens); Michail Gr. Vrachopoulos (National and Kapodistrian University of Athens); Michail Gr. Vrachopoulos (National and Kapodistrian University of Athens); Michail Gr. Vrachopoulos (National and Kapodistrian University of Athens); Michail Gr. Vrachopoulos (National and Kapodistrian University of Athens); Michail Gr. Vrachopoulos (National and Kapodistrian University of Athens); Michail Gr. Vrachopoulos (National and Kapodistrian University of Athens); Michail Gr. Vrachopoulos (National and Kapodistrian University of Athens); Michail Gr. Vrachopoulos (National and Kapodistrian University of Athens); Michail Gr. Vrachopoulos (National and Kapodistrian University of Athens); Michail Gr. Vrachopoulos (National and Kapodistrian University of Athens); Michail Gr. Vrachopoulos (National and Kapodistrian University of Athens); Michail Gr. Vrachopoulos (National and Kapodistrian University of Athens); Michail Gr. Vrachopoulos (National and Kapodistrian University of Athens); Michail Gr. Vrachopoulos (National and Kapodistrian University of Athens); Michail Gr. Vrachopoulos (National and Kapodistrian University of Athens); Michail Gr. Vrachopoulos (National and Kapodistrian University of Athens); Michail Gr. Vrachopoulos (National and Kapodistrian University of Athens); Michail Gr. Vrachopoulos (National and Kapodistrian University of Athens); Michail Gr. Vrachopoulos (National and Ka	of Athens)
99:45-10:00 Eduardo Lopez-Ramos (ECOPETROL); Casar Patino-Suarez (ECOPETROL); Angela Alvarez-Gutierrez (ECOPETROL); Albeiro Lopez-Pulido (EC	OPETROL); Felipe Gonzales-Penagos
123-Geothermal projections in Colombia from Oil & Gas industry [ECOPETROL]; Daniela Pinilia-Granados (ECOPETROL)	
10:00-10:15   133-Electric Energy Load Forecasting with ARIMA vs XGBoost for Australia VIC State Muhammed Can Özdemir (Sakarya University); Hasan Köten (Istanbul Medeniyet University), Nejat Yumuşak(Sakarya University)	
10:15-10:30   167-Evaluation of the temperature impact on the production of photovoltaic energy in the Brazilian national scene Gustavo Margarido (UFABC); Federico Bernardino Trigoso (CECS/UFABC); Renato Souza (IFABC); Wilson Silva Junior (IFSP); Roberto Duarte (IFSP); Fabio B	ortoli (IFSP); Carlos Frajuca (IFSP)
SESSION 2B Thermal analyses Session Chair: Dr. Eusebio Conceição	
10:35-10:50 83-Supercritical CO2 Binary Mixtures for Brayton Power Cycles Complex Configurations Coupled to Solar Thermal Energy Plants Paul Michael M Tafur Escanta (Polytechnic University of Madrid); Ausier Muñoz-Antón (Polytechnic University of Madrid)	íquez (UPolytechnic University of
10:50-11:05   105-Effect of Position of Heat Flux Profile on the Absorber Surface of Parabolic Trough Solar Collector for Direct Steam Generation   Ram Kumar Pal (Indian Institute of Technology Delhi); Ravi Kumar Kandasamy (Indian Institute of Technology Delhi)	
11:05-11:20 152-A comparative study of melting performance for ultra-high temperature latent storage system  Alok Kumar Ray (Indian Institute of Technology Delhi); Dibakar Rakshit (Indian Institute of Technology Delhi); Ravi Kumar Kandasamy (Indian Institute of Technology Delhi); Dibakar Rakshit (Indian Institute of Technology Delhi); Ravi Kumar Kandasamy (Indian Institute of Technology Delhi); Dibakar Rakshit (Indian Institute of Technology Delhi); Ravi Kumar Kandasamy (Indian Institute of Technology Delhi); Dibakar Rakshit (Indian Institute of Technology Delhi); Ravi Kumar Kandasamy (Indian Institute of Technology Delhi); Dibakar Rakshit (Indian Institute of Technology Delhi); Dibakar Rakshit (Indian Institute of Technology Delhi); Ravi Kumar Kandasamy (Indian Institute of Technology Delhi); Dibakar Rakshit (Indian Institute of Technology Delhi); Ravi Kumar Kandasamy (Indi	lian Institute of Technology Delhi); Hal
11:20-11:35 176-Energy production in solar collectors in a university building used to improve the internal thermal conditions in winter conditions  Eusébio 2:E: Conceidó digarve); João Gomes (CINTAL); Mª Manuela Lúcio (University of Algarve); André Ramos (University of Algarve); João Gomes (CINTAL); Mª Manuela Lúcio (University of Algarve); André Ramos (University of Algarve); João Gomes (CINTAL); Mª Manuela Lúcio (University of Algarve); André Ramos (University of Algarve); João Gomes (CINTAL); Mª Manuela Lúcio (University of Algarve); João Gomes (CINTAL); Mª Manuela Lúcio (University of Algarve); João Gomes (CINTAL); Mª Manuela Lúcio (University of Algarve); João Gomes (CINTAL); Mª Manuela Lúcio (University of Algarve); João Gomes (CINTAL); Mª Manuela Lúcio (University of Algarve); João Gomes (CINTAL); Mª Manuela Lúcio (University of Algarve); João Gomes (CINTAL); Mª Manuela Lúcio (University of Algarve); João Gomes (CINTAL); Mª Manuela Lúcio (University of Algarve); João Gomes (CINTAL); Mª Manuela Lúcio (University of Algarve); João Gomes (CINTAL); Mª Manuela Lúcio (University of Algarve); João Gomes (CINTAL); Mª Manuela Lúcio (University of Algarve); João Gomes (CINTAL); Mª Manuela Lúcio (University of Algarve); João Gomes (CINTAL); Mª Manuela Lúcio (University of Algarve); João Gomes (CINTAL); Mª Manuela Lúcio (University of Algarve); João Gomes (CINTAL); Mª Manuela Lúcio (University of Algarve); João Gomes (CINTAL); Mª Manuela Lúcio (University of Algarve); João Gomes (CINTAL); Mª Manuela Lúcio (University of Algarve); João Gomes (CINTAL); Mª Manuela Lúcio (University of Algarve); João Gomes (CINTAL); Mª Manuela Lúcio (University of Algarve); Mª Manuela Lúcio (University of Algarve); Mª Manuela Lúcio (University of Algarve); Mª Manuela Lúcio (University of Algarve); Mª Manuela Lúcio (University of Algarve); Mª Manuela Lúcio (University of Algarve); Mª Manuela Lúcio (University of Algarve); Mª Manuela Lúcio (University of Algarve); Mª Manuela Lúcio (University of Algarve); Mª Manuela Lúcio (University of	arve): Hazim Awhi (University of Reading
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SESSION 3B Theoretical studies on energy systems  11:55-12:10  24-Power loss calculation of Photovoltaics using Python  12:10-12:25  42-Determining of optimum tilt angle of solar panels in three cities in Albania  12:10-12:25  42-Determining of optimum tilt angle of solar panels in three cities in Albania  12:25-12:40  12:25-12:40  12:25-12:40  12:25-12:40  12:25-12:40  12:25-12:40  12:40-Review of Thomson Heat  12:40-12:55  12:40-Comparison of Different Regression Algorithms for Estimating Energy Consumption  12:50-13:10  13-Modal Excitation Energy  SESSION 4B Solar energy systems  SESSION 4B Solar energy systems  SESSION 4B Solar energy systems  SESSION 4B Solar energy systems  SESSION 4B Solar energy systems  Session Chair: Dr. Ilknur Kars Durukan  Andrey Batukhtin(Transbaikal State University), Sergey Batukhtin(Transbaikal State University)  15:20-15:35  10-Solar collector with increased heat transfer efficiency  Andrey Batukhtin(Transbaikal State University), Sergey Batukhtin(Transbaikal State University)  15:20-15:35  192-Morphological properties of the InGaAs/InP detectors in plasma systems  Seluk U Utils (Gazi University), Abdullah Yıldız (Ankara Yıldırım Beyazıt University)  15:35-15:50  189-Level of meeting the needs for solar energy for hot water production in the Ionian coast of Albania  SESSION 5B Numerical Calculations on Energy Systems  Session Chair: Dr. Lalia Ouazzani Chabitil  SESSION 5B Numerical Calculations on Energy Systems  Session Chair: Dr. Lalia Ouazzani Chabitil  SESSION 5B Numerical Calculations on Energy Systems  Session Chair: Dr. Lalia Ouazzani Chabitil  SESSION 5B Numerical Calculations on Energy Systems  Session Chair: Dr. Lalia Ouazzani Chabitil  SESSION 5B Numerical Calculations on Energy Systems	a Daniela(University of Elbasan), Muda dagogical University)  Safronov(Transbaikal State University)
SESSION 3B Theoretical studies on energy systems  1:55-12:10 24-Power loss calculation of Photovoltaics using Python  12:10-12:25 42-Determining of optimum tilt angle of solar panels in three cities in Albania  12:25-12:40 12:40-12:25 12:40-12:52 12:40-12:51 12:40-12:55 13:10 13-Modal Excitation Energy  SESSION 4B Solar energy systems  Session Chair: Dr. Ilknur Kars Durukan  Andrey Batukhtin[Transbaikal State University], Sergey Batukhtin[Transbaikal State University], Marina Baranovskaya[Transbaikal State University]  Seluck Utag (Gazi University), Brain Rotter (Incursity), Sergey Batukhtin[Transbaikal State University]  Solar energy for hot water production in the ionian coast of Albania  Daniela Hallii (Aleksander Xhuvani University), Serdari Eduart(University) of Wora), Mitrushi Driada[Polytechnic University)  Session Chair: Dr. Lilkaur Beyazit University), Serdari Eduart(University) of Wora), Mitrushi Driada[Polytechnic University]  SESSION 5B Numerical Calculations on Energy Systems  Session Chair: Dr. Lilkau Outzazani Chalidi  Session Chair: Dr. Lilkaur Saudina Arpac (Union of Municipalities of Turkey)	a Daniela(University of Elbasan), Muda dagogical University)  Safronov(Transbaikal State University)
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SESSION 3B Theoretical studies on energy systems  Session Chair: Dr. Igor Lashkevych  11:55-12:10  24-Power loss calculation of Photovoltaics using Python  Kerry A Sado (University of Duhok); Lokman Hadi (University of Duhok); Shivan Sado (University of Nebraska-Lincoln); Ismail Amin (University of Duhok); Demand Hadi (University of Tirana), Serdari Eduart(University of Vlora), Topcit Valbona(Polytechnic University of Tirana), Mittrushi Driada(Polytechnic University of Tirana), Serdari Eduart(University of Vlora), Topcit Valbona(Polytechnic University of Tirana)  12:240-12:55  17-Comparison of Different Regression Algorithms for Estimating Energy Consumption  Halit Cetteric (Isparta University) of Polited Sciences), Ibrahim Cetter (Member Akif Ersoy University)  12:55-13:10  13-Modal Excitation Energy  Session Alas in Value (Istanbul Medeniyet University); Hasan Köten (Istanbul Medeniyet University)  BREAK  Session Chair: Dr. Ilknur Kars Durukan  15:05-15:20  104-Solar collector with increased heat transfer efficiency  Andrey Batukhtin(Transbaikal State University), Sergey Batukhtin(Transbaikal State University), Pavel Selyuk U Utaş (Gazi University), Javel Juliensity)  15:33-15:50  189-tweep for meeting the needs for solar energy for hot water production in the Ionian coast of Albania  16:05-16:20  179-Analysis of optical properties of the CeTl Intermetallic structure  Session Chair: Dr. Ilknur Mars Durukan (Gazi University), Serdari Eduart(University)  16:05-16:20  179-Analysis of optical properties of the CeTl Intermetallic structure  Session Chair: Dr. Lalia Ouazzani Chabidia  16:25-16:40  16:25-16:40  16:25-16:40  16:25-16:40  16:25-16:40  16:25-16:40  16:25-16:40  16:25-16:40  16:25-16:40  16:25-16:40  16:25-17:40  171-47:47:67:50 surrogate models for optimization in energy efficient building design  Seminal Analysis of Optical production of Municipalities of Turkey)  Seminal Analysis of Optical production of Municipalities of Turkey)  Seminal Analysis of Optical production of Municipalities of Turkey)  S	a Daniela(University of Elbasan), Muda dagogical University)  Safronov(Transbaikal State University)  a Urim(Polytechnic University of Tirana
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SESSION 3B Theoretical studies on energy systems  Session Chair: Dr. (gor Lashkevych  Kerry A Sado (University of Duhok); Lokman Hadi (University of Duhok); Shivan Sado ( University of Nora), Topolic  12:0-12:25  42-Petermining of optimum tilt angle of solar panels in three cities in Albania  Ulfim Burar (Polytechnic University of Tirana), Mittushi Diriada(Polytechnic University of Tirana), Serdari Eduart(University of Volroa), Topolic  Valbona(Polytechnic University of Tirana), Juri Gurevich (CINVESTAV-IPN); Viktor Matsyuk (Ternopil Volodymyr Hnatiuk National Peter 12:40-12:55  71-Comparison of Different Regression Algorithms for Estimating Energy Consumption  Halit Cetiner (Isparta University) of Tirana), Serdari Eduart(University)  Tark Tufan (Istanbul Medeniyet University); Hasan Koten (Istanbul Medeniyet University)  SESSION 4B Solar energy systems  Session Chair: Dr. Ilknur Kars Durukan  SESSION 4B Solar energy systems  Session Chair: Dr. Ilknur Kars Durukan  Andrey Batukhtin(Transbakial State University), Marina Baranovskaya(Transbakial State University), Pavel 15:20-15:23  21:1-The features of the InGaAs/Init detectors in plasma systems  Selicuk U utas (Gazi University), Hillal Kurt(Gazi University)  19:3-3-15:50  19:4-Morphological properties of low temperature hydrothermally grown TiO2 films for DSSC devices  Aycan Attl. (Ankara Yildirim Beyazet University) of Horizon (Gazi University)  19:3-16:0-16:00  19:3-Analysis of optical properties of the Vertical Eduar(University of Tirana), Buzr Ilknur (Gazi University)  16:0-16:5-16:00  19:4-Analysis of optical properties of the Memperature hydrothermally grown TiO2 films for DSSCs devices  All Pall (Ankara Yildirim Beyazet University) of Tirana), Buzr Ilknur (Gazi University)  16:0-16:5-16:00  19:4-Analysis of optical properties of the Cell Intermetallic Structure  Ilknur Kars Durukan (Gazi University); Sadullah Yildiz (Ankara Yildirim Beyazet University)  16:0-16:5-17:00  16:5-16:40  17:4-16:5-16:5-16:5-16:5-16:5-16:5-16:5-16:5	a Daniela(University of Elbasan), Muda dagogical University)  Safronov(Transbaikal State University)  a Urim(Polytechnic University of Tirana
SESSION 3B Theoretical studies on energy systems  Session Chair: Dr. (gor Lashkeych  11:55-12:10  12-4-Power loss calculation of Photovottaics using Python  2-Determining of optimum tilt angle of solar panels in three cities in Albania  12-21-12-12-22  2-Determining of optimum tilt angle of solar panels in three cities in Albania  12-25-12-24  12-25-12-24  12-25-12-25  12-25-12-20  12-25-12-2	a Daniela(University of Elbasan), Muda dagogical University)  Safronov(Transbaikal State University)  a Urim(Polytechnic University of Tirana
SESSION 3B Theoretical studies on energy systems  Session Chair: Dr. (gor Lashkey/ch  Kerry A Sado (University of Duhok); Lokman Hadi (University of Duhok); Shivan Sado (University of Nuhok); Shivan Sado (University of Tunan), Mitrushi Driada(Polytechnic University of Tirana), Mitrushi Driada(Polytechnic University of Tirana), Mitrushi Driada(Polytechnic University of Tirana), Mitrushi Driada(Polytechnic University of Tirana), Mitrushi Driada(Polytechnic University of Tirana), Mitrushi Driada(Polytechnic University of Tirana), Mitrushi Driada(Polytechnic University of Tirana), Mitrushi Driada(Polytechnic University of Tirana), Mitrushi Driada(Polytechnic University of Tirana), Mitrushi Driada(Polytechnic University of Tirana), Mitrushi Driada(Polytechnic University of Tirana), Mitrushi Driada(Polytechnic University of Viora), Topolic Viora, Mitrushi Driada(Polytechnic University) of University of Viora), Mitrushi Driada(Polytechnic University), Parel State University, Hasan Köten (Stanbul Medeniyet University)  **Session Chair: Dr. (Iknur Kars Durukan)**  **Session Chair: Dr. (Iknur K	a Daniela(University of Elbasan), Muda dagogical University)  Safronov(Transbaikal State University)  a Urim(Polytechnic University of Tirana  University in Rabat)
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SESSION 3B Theoretical studies on energy systems  Session Chair: Dr. (gor Lashkevych  11:55-12:10  24-Power loss calculation of Photovotaics using Python  Extry A Sado (University of Duhok); Shivan Sado (University of Nebraska Lincoln); Ismail Amin (Unive  12:10-12:25  42-Determining of optimum tilt angle of solar panels in three cities in Albania  Urim Buzra (Polytechnic University of Tirana), Mitrushi Driada(Polytechnic University of Tirana), Serdari Eduart(University of Vora), Topcit  Valbona(Polytechnic University) of Tirana), Serdari Eduart(University of Vora), Topcit  12:25-12:20  36-Review of Thomson Heat  12:20-12:25  12:31-Comparison of Different Regression Algorithms for Estimating Energy Consumption  Halli Cetiner (Riparta University) of Applied Sciences); Ibrahim Cetiner (Wehmet Aufi Ersoy University)  BREAK  SESSION 4B Solar energy systems  Session Chair: Dr. liknur Kars Durukan  15:30-15:20  104-Solar collector with increased heat transfer efficiency  Session Chair: Dr. liknur Kars Durukan  Andrey Baushtini(Transbalial State University), Halli Kurti(Gasi University), Halli Kurti(Gasi University), Pavel Seyet University (Seyet Baushtini(Transbalial State University), Marina Baranovikaya(Transbalial State University), Pavel Seyet University (Seyet University), Edual Inversity), Pavel Seyet University, Seyen (Seyet University), Pavel University, Seyen (Seyet University), Pavel University), Pavel University, Pavel Seyet University, Pavel University, Pavel Seyet University, Pavel University	a Daniela(University of Elbasan), Muda dagogical University)  Safronov(Transbaikal State University)  a Urim(Polytechnic University of Tirana  University in Rabat)  ty of Food Technologies, Plovdiv); Technologies); Apostol Simitchiev
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