

Conference Program

Important Note: The conference program has been scheduled according to Greenwich Mean Time (UTC+1)

Thursday 29 July 2021			
Session 1 Chairman: Dr. Guohai Chen & Dr. Mohd Hasmizam Razali (10h00 – 13h00) Virtual Room 1		Session 2 Chairmans: Prof. Fei Wang, Dr. Chaiwat Prapainainar and Dr. Francesca Deganello (10h00 – 13h00) Virtual Room 2	
Plenary Speaker		Plenary Speaker	
Prof. Marc A. Rosen Title: <i>Exergy Methods for Addressing Climate Change and Other Environmental Impacts</i> Time Slot: 10h00 - 10h45		Prof. Eddie YK NG Title: <i>Modelling of wake velocity and turbulence intensity of a wind turbine using machine learning algorithms</i> Time Slot: 10h00 - 10h45	
Download Paper		Download Paper	
Break (10h45 – 11h00)			
Keynote Talk		Keynote Talk	
Title: Computational Screening for New Generation Photovoltaic Materials Author: Dr. Julia Romanova (Bulgaria) Time Slot: 11h00 - 11h30 ID: 55		Title: Model Predictive Control for Intelligent Building Energy Management Author: Dr. Wan Man Pun (Singapore) Time Slot: 11h00 - 11h30 ID: 19	
Download Paper	Video Presentation	Download Paper	Video Presentation
Oral Presentations		Oral Presentations	
Title: A pilot study on implementation of sustainable design and construction activities in highway development Author: RAJA RAFIDAH RAJA MUHAMMAD ROOSHDI (Malaysia) Time Slot: 11h30 - 11h45 ID: 48		Title: Bio-hydrogenated diesel production from palm oil with process integration of hydrogen production and hydro-processing Author: Chaiwat Prapainainar (Thailand) Time Slot: 11h30 - 11h45 ID: 54	
Download Paper	Video Presentation	Download Paper	Video Presentation
Title: Energy and Typological Building Characterization of the Social Housing Stock in Southern Spain Author: Carmen María Calama-González (Spain) Time Slot: 11h45 - 12h00 ID: 145		Title: Solar-driven H ₂ O-to-H ₂ O ₂ effected by promoters NIP and CoP on g-C ₃ N ₄ /BiOI composites Author: Y.-F. Liou (Taiwan) Time Slot: 11h45 - 12h00 ID: 88	
Download Paper	Video Presentation	Download Paper	Video Presentation
Title: Electrokinetic Remediation of Arsenic in a Gold Tailing Studied by in situ EXAFS Author: P.-A. Chen (Taiwan) Time Slot: 12h00 - 12h15 ID: 80		Title: Low-Cost DSSCs using FeNi ₃ @C counter electrodes Author: Y.-F. Liou (Taiwan) Time Slot: 12h00 - 12h15 ID: 87	
Download Paper	Video Presentation	Download Paper	Video Presentation
Title: Modeling and simulation of a Web-of-Cells architecture using Matlab/Simulink Author: Mohamed Faradji (Algeria) Time Slot: 12h15 - 12h30 ID: 49		Title: Numerical Modeling of Heat Flow of Kangding Area with New Borehole Data for Purpose of Geothermal Resources Development Evaluation Author: Chao Zhang (China) Time Slot: 12h15 - 12h30 ID: 150	
Download Paper	Video Presentation	Download Paper	Video Presentation
Title: Capacitive deionization of salt water using thin stainless steel and graphite collectors in the FdCDI process Author: P.-A. Chen (Taiwan) Time Slot: 12h30 - 12h45 ID: 81		Title: Identification of wind energy deployment determinants: Fuzzy cognitive map-based method Author: Sara Ghaboulia Zare (Australia) Time Slot: 12h30 - 12h45 ID: 72	
Download Paper	Video Presentation	Download Paper	Video Presentation
Title: Examination of Nuclear and Renewables Potential in Malaysia Author: Pei Jia Pok (Korea) Time Slot: 12h45 - 13h00 ID: 91		Title: Dechlorination of incineration fly ash by fluidized capacitive deionization for utilization Author: P.-C. Chang (Taiwan) Time Slot: 12h45 - 13h00 ID: 92	
Download Paper	Video Presentation	Download Paper	Video Presentation
Break (13h 00 – 13h15)			
Session 3 Chairmans: Dr. Talieh Rajabloo, Dr. Chibuisi C. Okorieimoh and Dr. Alban Kuriqi (13h15 – 14h 30) Virtual Room 1		Session 4 Chairmans: Dr. Mohd Hasmizam Razali, Dr. Man Pun Wan (13h15 – 14h 30) Virtual Room 2	
Keynote Talk		Keynote Talk	
Title: Decarbonization for the energy transition and green production Author: Dr. Talieh Rajabloo (Belgia) Time Slot: 13h15 - 13h45 ID: 25		Title: Utilizing Metal Chelating Flavonols as Metal Ion Filter and Hydroxyl Detector in Aqueous System Author: Dr. Erum Jabeen (Pakistan) Time Slot: 13h15 - 13h45 ID: 67	
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Oral Presentations		Oral Presentations	
Title: High-temperature desulfurization by ZnO/Raney CuO absorbents Author: Wu, Tzu-En (Taiwan) Time Slot: 13h45 - 14h00 ID: 83	Download Paper	Video Presentation	Title: Sustainability Aspects in Seismic Performance of Confined Masonry Structures: A Review Author: Sami Ullah (Pakistan) Time Slot: 13h45 - 14h00 ID: 118
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Title: In situ EXAFS studies of photoelectrocatalytic reduction of gold and lanthanum ions recycled from E-wastes Author: Wu, Tzu-En (Taiwan) Time Slot: 14h00 - 14h15 ID: 85	Download Paper	Video Presentation	Title: Workability of Concrete Having Used Petrol Engine Oil and Banana Fibers Author: Blawal Hasan (Pakistan) Time Slot: 14h00 - 14h15 ID: 123
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Title: Liquefaction of scrap tires for recycling of fuel oils Author: P.-C. Chang (Taiwan) Time Slot: 14h15 - 14h30 ID: 93	Download Paper	Video Presentation	Title: A Review on Durability Methods for Natural Fibers in Polymer Matrices from Sustainability Aspects Author: Blawal Hasan (Pakistan) Time Slot: 14h15 - 14h30 ID: 155
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Lunch Break (14h 30 – 15h00)			
Session 5		Session 6	
Chairmans: Dr. Hongwei WU, Dr. Roselita Fragoudakis and Prof. Alina Adriana Minea (15h00 – 18h 30) Virtual Room 1		Chairmans: Dr. Chibuisi C. Okorieimoh, Dr. Eman Ragab Mohamed Nofal and Dr. Alban Kuriqi (15h00 – 18h 30) Virtual Room 2	
Keynote Talk		Keynote Talk	
Title: A Review of Fiber Reinforced Plastic Laminated Structures for more Efficient and Clean Transportation Author: Dr. ROSELITA FRAGOUDAKIS (USA) Time Slot: 15h00 - 15h30 ID: 15	Download Paper	Video Presentation	Title: A cleaner process for heavy oil extraction from oil sand using a bio-based solvent Author: Dr. Feng Lin (Canada) Time Slot: 15h00 - 15h30 ID: 16
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Oral Presentations		Oral Presentations	
Title: A comparative study of the thermal behavior of Li-ion batteries with different geometries, capacities, cathode materials Author: ZIAT Khalid (France) Time Slot: 15h30 - 15h45 ID: 59	Download Paper	Video Presentation	Title: Integration of vanadium redox battery with PV systems : Modeling and simulation of Vanadium Redox flow batteries based on MATLAB/Simulink Author: BABAY Mohamed-Amine (Morocco) Time Slot: 15h30 - 15h45 ID: 99
Download Paper	Video Presentation	Download Paper	Video Presentation
Title: A low-budget mathematically scalable sensor solution to reduce energy consumption in buildings Author: Robinson Adrian Barraqueta Paccha B. Sc. (Ecuador) Time Slot: 15h45 - 16h00 ID: 41	Download Paper	Video Presentation	Title: GENERATION OF HYDROGEN AND OXYGEN FROM WATER BY SOLAR ENERGY CONVERSION Author: Tamina Khavaza (Kazakhstan) Time Slot: 15h45 - 16h00 ID: 107
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Title: DESCRIPTION OF COLOMBIAN ELECTRICITY PRICING DERIVATIVES Author: Sellamuthu Prabakaran (Colombia) Time Slot: 16h00 - 16h15 ID: 63	Download Paper	Video Presentation	Title: OPTIMIZATION OF PROCESS PARAMETERS FOR THE OPERATION OF A FLOW-THROUGH SUPERCRITICAL UNIT Author: Tamina Khavaza (Kazakhstan) Time Slot: 16h00 - 16h15 ID: 108
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Title: Development of Underground transportation Hazard management System (UTHMS) for Indian underground hard rock mines Author: Falguni Sarkar (India) Time Slot: 16h15 - 16h30 ID: 146	Download Paper	Video Presentation	Title: Impact of window wall ratio in office building envelopes on operational energy consumption in the temperate climatic zone of India Author: Pradeep Kini (India) Time Slot: 16h15 - 16h30 ID: 164
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Title: Treatment of Natural Fibers for Improving Cement Composites Behavior-An Overview Author: Sami Ullah (Pakistan) Time Slot: 16h30 - 16h45 ID: 149	Download Paper	Video Presentation	Title: Effectiveness of Hybrid Fibers in Cementitious Composites Towards Sustainability: A Review Author: Ali Rehman (Pakistan) Time Slot: 16h30 - 16h45 ID: 147
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Title: Effect of Banana fibers on the enhancement of compressive toughness of Reinforced Concrete Columns –A Review Author: Muhammad Abrar (Pakistan) Time Slot: 16h45 - 17h00 ID: 113	Download Paper	Video Presentation	Title: Recycling of waste plastic with least effect to environment: A review Author: Aaroon Joshua Das (Pakistan) Time Slot: 16h45 - 17h00 ID: 153
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Break (17h 00 – 17h15)			
Oral Presentations		Oral Presentations	
Title: Can there be a universal phase locked loop? Author: Gabriel Gómez Ruiz (Spain) Time Slot: 17h15 - 17h30 ID: 37	Download Paper	Video Presentation	Title: Understanding the impact of Green Walls on the Indoor Environment of Buildings in different climatic zones of India Author: Pradeep Kini (India) Time Slot: 17h15 - 17h30 ID: 166
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Title: Optical Analysis for a Honeycomb Solar Receiver Using a Point-Focus Concentrator Author: N. Aracely Cisneros-Cardenas (Mexico) Time Slot: 17h30 - 17h45 ID: 46	Title: ETHANOL DEMAND IN BRAZIL: A CONTRIBUTION TO A BETTER ESTIMATE Author: Anderson Luís da Silva (Brazil) Time Slot: 17h30 - 17h45 ID: 70
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Title: Aggregation and Flexibility for Grids' Operation: the EU Path Toward the Opening of the Ancillary Services Market to Distributed Energy Resources Author: Francesco Gulotta (Italy) Time Slot: 17h45 - 18h00 ID: 51	Title: Improving Energy Performance and Thermal Comfort for Heritage Buildings: A Case Study Murabaa Palace Author: Abobakr Al-Sakkaf (Canada) Time Slot: 17h45 - 18h00 ID: 96
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Title: Intensified extractive distillation process for the separation of n-heptane-toluene mixture using the ionic liquid 1-Ethyl-4-methylpyridinium Bis(trifluoromethanesulfonyl)imide Author: Fadia Guella (Algeria) Time Slot: 18h00 - 18h15 ID: 151	Title: Analytical Modelling of a Horizontal Axis Wind Turbine with a Direct Drive Permanent Magnet Synchronous Generator Author: Henda Zorgani Agrebi (Tunisia) Time Slot: 18h00 - 18h15 ID: 161
Download Paper	Video Presentation

Friday 30 July 2021

Session 1	Session 2
Chairmans: Dr. Guohai Chen, Dr. Maria Laura Tummino and Dr. Ajay Kumar Kaviti (10h00 – 13h00) Virtual Room 1	Chairmans: Prof. Fei Wang, Dr. Kumaran VEDIAPPAN and Dr. Man Pun Wan (10h00 – 13h00) Virtual Room 2
Plenary Speaker	Plenary Speaker
Dr. Farhad Shahnia	Prof. Werner J.F. Weppner
Title: <i>Recent and Future Research on Microgrid Clusters</i> Time Slot: 10h00 - 10h45	Title: <i>Ceramic Electrolytes and Electrodes for All-Solid-State Batteries with High Energy and Power Density –Environmentally Benign, Inexpensive, Safe and Long Lasting</i> Time Slot: 10h00 - 10h45
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Break (10h45 – 11h00)	
Keynote Talk	Keynote Talk
Title: Lignocellulose as a fundamental resource for a sustainable development Author: Dr. Maria Laura Tummino (Italy) Time Slot: 11h00 - 11h30 ID: 18	Title: Energy and environment: important role of chemistry in meeting the new demand for sustainable solutions Author: Francesca Deganello (Italy) Time Slot: 11h00 - 11h30 ID: 24
Download Paper	Download Paper
Oral Presentations	Oral Presentations
Title: Vibration Characterizations of motor-gear-rotor system with considering the lateral-torsional-axial coupling effect Author: Hongyu Xi (China) Time Slot: 11h30 - 11h45 ID: 104	Title: Transforming Granite Wastes into High Performance Hybrid Polymer Composites for Environmental Sustainability and its Comparative Optimization using TOPSIS Technique Author: Aakash Sharma (India) Time Slot: 11h30 - 11h45 ID: 117
Download Paper	Download Paper
Title: Evaluation of the failure modes of the finger- jointed timber species for utilization of waste timber Author: Chaminda Kumara Muthumala (Sri Lanka) Time Slot: 11h45 - 12h00 ID: 109	Title: Submerged fermentative production of L-Asparaginase Enzyme by <i>Aspergillus niger</i> Author: Kommalapati.Sowbhagya Lakshmi (India) Time Slot: 12h45 - 13h00 ID: 157
Download Paper	Download Paper
Title: Photocatalytic reduction of CO ₂ to C ₁ fuels by (Ni/ZnO)@C nanoreactors Author: L.-W. Wei (Taiwan) Time Slot: 12h00 - 12h15 ID: 84	Title: Optical-Electronic Matrix System for the monitoring of nocturnal migration of birds Author: Alexandra Sinelschikova (Russia) Time Slot: 12h00 - 12h15 ID: 76
Download Paper	Download Paper
Title: Photocatalytic reduction of CO ₂ to methanol by Cu ₂ O/TiO ₂ heterojunctions Author: L.-W. Wei (Taiwan) Time Slot: 12h15 - 12h30 ID: 86	Title: In situ FTIR studies for photocatalytic reduction of CO ₂ by TiO ₂ nanotubes Author: Hsin-Yu(Kelly) Chang (Taiwan) Time Slot: 12h15 - 12h30 ID: 78
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<p>Title: Enhanced extraction of PAHs from fly ashes with variable dielectric-constant supercritical fluids</p> <p>Author: Tsai-Yu-Chieh (Taiwan)</p> <p>Time Slot: 12h30 - 12h45 ID: 82</p> <p>Download Paper Video Presentation</p>	<p>Title: Photocatalytic Reduction of CO₂-to-C₁ by Dual Photoelectrode Reactor</p> <p>Author: Hsin-Yu(Kelly) Chang (Taiwan)</p> <p>Time Slot: 12h30 - 12h45 ID: 79</p> <p>Download Paper Video Presentation</p>
<p>Title: Selective extraction of cobalt from spent lithium-ion batteries</p> <p>Author: Tsai-Yu-Chieh (Taiwan)</p> <p>Time Slot: 12h45 - 13h00 ID: 89</p> <p>Download Paper Video Presentation</p>	<p>Title: Aspergillus niger a local isolate from rice husk as potential source of single cell protein production</p> <p>Author: Kommalapati.Sowbhagya Lakshmi (India)</p> <p>Time Slot: 12h45 - 13h00 ID: 156</p> <p>Download Paper Video Presentation</p>
Break (13h 00 – 13h15)	
<p>Session 3</p> <p>Chairmans: Dr. Maria Laura Tummino, Dr. Majid Ali and Dr. T. Christopher Jeyakumar</p> <p>(13h15 – 14h 30) Virtual Room 1</p> <p>Keynote Talk</p>	<p>Session 4</p> <p>Chairmans: Dr. Kumaran Vediappan, Dr. Chaiwat Prapainainar and Dr. Jesús David Coral M</p> <p>(13h15 – 14h 30) Virtual Room 2</p> <p>Keynote Talk</p>
<p>Title: CO₂ photo-reduction into fuels using TiO₂ based photocatalysts</p> <p>Author: Dr. Mohd Hasmizam Razali (Malaysia)</p> <p>Time Slot: 13h15 - 13h45 ID: 11</p> <p>Download Paper Video Presentation</p>	<p>Title: Study of Liquid Desiccant Air Conditioning Using Flat Plate Solar Collector</p> <p>Author: Dr. Geleta Fekadu Daba (Ethiopia)</p> <p>Time Slot: 13h15 - 13h45 ID: 138</p> <p>Download Paper Video Presentation</p>
Oral Presentations	
<p>Title: Unlocking New Opportunities for the Photovoltaic Materials Market</p> <p>Author: Joanna Stoycheva (Bulgaria)</p> <p>Time Slot: 13h45 - 14h00 ID: 58</p> <p>Download Paper Video Presentation</p>	<p>Title: Smart grid for power generation from renewable energy resources for sustainable energy development in Kanungu district, Uganda</p> <p>Author: Jane Rose Atwongyeire (Thailand)</p> <p>Time Slot: 13h45 - 14h00 ID: 144</p> <p>Download Paper Video Presentation</p>
<p>Title: Interplay Between Diradical Character and Stability in Singlet Fission Chromophores</p> <p>Author: Vaska Petakova (Bulgaria)</p> <p>Time Slot: 14h00 - 14h15 ID: 57</p> <p>Download Paper Video Presentation</p>	<p>Title: Synthesis, characterization and solution properties of polyacrylamide based ternary copolymerization modified nano silica nanocomposites for EOR</p> <p>Author: Dongyin Wang (China)</p> <p>Time Slot: 14h00 - 14h15 ID: 136</p> <p>Download Paper Video Presentation</p>
<p>Title: Carbene Based Materials for Organic Solar Cells</p> <p>Author: Gergana Kostadinova (Bulgaria)</p> <p>Time Slot: 14h15 - 14h30 ID: 56</p> <p>Download Paper Video Presentation</p>	<p>Title: Gradient algorithms for artificial neuron network teaching</p> <p>Author: Shohrukh Narzullayev (Uzbekistan)</p> <p>Time Slot: 14h15 - 14h30 ID: 158</p> <p>Download Paper Video Presentation</p>
Lunch Break (14h 30 – 15h00)	
<p>Session 5</p> <p>Chairmans: Dr. Hongwei WU, Dr. T. Christopher Jeyakumar and Prof. Alina Adriana Minea</p> <p>(15h00 – 17h 30) Virtual Room 1</p> <p>Oral Presentations</p>	<p>Session 6</p> <p>Chairmans: Dr. Majid Ali, Dr. Roselita Fragoudakis and Dr. Jesús David Coral M</p> <p>(15h00 – 17h 30) Virtual Room 2</p> <p>Oral Presentations</p>
<p>Title: THE EFFECTS OF THE TRANSIENT AND PERFORMANCE LOSS RATES ON PV OUTPUT PERFORMANCE</p> <p>Author: Chibuisi C. Okorieimoh (Ireland)</p> <p>Time Slot: 15h00 - 15h15 ID: 114</p> <p>Download Paper Video Presentation</p>	<p>Title: Effect of surfactants on morphology and textural parameters of silica nanoparticles derived from paddy straw and their efficient removal of methylene blue</p> <p>Author: Himasha Gunathilaka (Sri Lanka)</p> <p>Time Slot: 15h00 - 15h15 ID: 111</p> <p>Download Paper Video Presentation</p>
<p>Title: Energy Conservation Building Code compliant material optimization of lightweight building envelope wall construction for different climate zones of India</p> <p>Author: Pranav Kishore (India)</p> <p>Time Slot: 15h15 - 15h30 ID: 165</p> <p>Download Paper Video Presentation</p>	<p>Title: Analyzing the Effect of Cleaning on Anti Reflecting Coating of PV Module</p> <p>Author: Rohit Bharwaj (India)</p> <p>Time Slot: 15h15 - 15h30 ID: 27</p> <p>Download Paper Video Presentation</p>
<p>Title: Design Guidelines to achieve Optimum Shading Strategies for different window orientations across various geographical locations of India</p> <p>Author: Pranav Kishore (India)</p> <p>Time Slot: 15h30 - 15h45 ID: 168</p> <p>Download Paper Video Presentation</p>	<p>Title: Zero carbon footprint, mechanical intervention for potentially reducing forest fires and generating livelihood options in Western Himalaya</p> <p>Author: Kapil Joshi (India)</p> <p>Time Slot: 15h30 - 15h45 ID: 36</p> <p>Download Paper Video Presentation</p>
<p>Title: Methodological basis for selecting experimental research for building materials</p> <p>Author: Fedor Portnov (Russia)</p> <p>Time Slot: 15h45 - 16h00 ID: 50</p> <p>Download Paper Video Presentation</p>	<p>Title: Thermodynamic study of a membraneless electrochemical process for the hydrogen and oxygen high-pressure generation</p> <p>Author: Andrii Shevchenko (Viet Nam)</p> <p>Time Slot: 15h45 - 16h00 ID: 62</p> <p>Download Paper Video Presentation</p>

<p>Title: A Survey on Deep Learning in Big Data and its Applications</p> <p>Author: Zair Bouzidi (Algeria)</p> <p>Time Slot: 16h00 - 16h15 ID: 124</p>	<p>Title: Research on Mud Loss Prevention and Control for Deep Wells with Complex Pressure System in Mingebrak Oilfield, Uzbekistan</p> <p>Author: Wanjun Li (China)</p> <p>Time Slot: 16h00 - 16h15 ID: 73</p>
<p>Download Paper</p>	<p>Video Presentation</p>
<p>Title: New urbanstyle technology – modular green roof and wall system</p> <p>Author: Natalia Shushunova (Russia)</p> <p>Time Slot: 16h15 - 16h30 ID: 52</p>	<p>Title: Numerical simulation of highly-efficient lead free tin-based perovskite solar cell with Sb₂S₃ as novel hole transport layer</p> <p>Author: Adnan Hosen (Bangladesh)</p> <p>Time Slot: 16h15 - 16h30 ID: 95</p>
<p>Download Paper</p>	<p>Video Presentation</p>
<p>Title: Exploring the sustainability of cable lines in fire case</p> <p>Author: Tatiana Eremina (Russia)</p> <p>Time Slot: 16h30 - 16h45 ID: 53</p>	<p>Title: RESEARCH OF PURCHASING CAPABILITY OF THE POPULATION OF THE KYRGYZ REPUBLIC OF POWER INSTALLATIONS BASED ON RENEWABLE ENERGY SOURCES</p> <p>Author: Sultanov S.K. (Russia)</p> <p>Time Slot: 16h30 - 16h45 ID: 105</p>
<p>Download Paper</p>	<p>Video Presentation</p>
<p>Title: Methane reforming with sulfur dioxide on Cr₂O₃ /γ-Al₂O₃</p> <p>Author: Sabrina Noemí Hernández Guance (Argentina)</p> <p>Time Slot: 16h45 - 17h00 ID: 45</p>	<p>Title: Bio-oil production using sawdust of Triplochiton scleroxylon in microwave pyrolysis</p> <p>Author: BADZA KODAMI (Cameroun)</p> <p>Time Slot: 16h45 - 17h00 ID: 115</p>
<p>Download Paper</p>	<p>Video Presentation</p>
<p>Title: Study of CZTSSe based solar cells with different ETMs by SCAPS</p> <p>Author: Lhoussayne Et-taya (Morocco)</p> <p>Time Slot: 17h00 - 17h15 ID: 61</p>	<p>Title: A Linguistic MCDM Framework for Sustainable Agriculture Design</p> <p>Author: Deniz Uztürk (Turkey)</p> <p>Time Slot: 17h00 - 17h15 ID: 162</p>
<p>Download Paper</p>	<p>Video Presentation</p>
<p>Title: Cryptocurrency Mining: As a Green Energy Drive</p> <p>Author: Nazenin Gure (Turkey)</p> <p>Time Slot: 17h15 - 17h30 ID: 178</p>	<p>Title: Sustainable Farm Building Design with 2-Tuple House of Quality</p> <p>Author: Deniz Uztürk (Turkey)</p> <p>Time Slot: 17h15 - 17h30 ID: 163</p>
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