

## Thursday, 25 June, 2020 (Athens GMT+3)

08<sup>30</sup>-09<sup>30</sup> Connection Test

09<sup>30</sup>-11<sup>00</sup> Conference Inauguration:

- Word of the Tmrees Conference Series

- Address by Prof. JOHN K. KALDELLIS (SEALAB)

11<sup>00</sup>-11<sup>30</sup> // Break

11<sup>30</sup>-12<sup>30</sup> Session 1 :

Chairs: Anna Komarova, Auday Shaban, Viboon Sricharoenchaikul, Michel Aillerie, Panagiotis Papageorgas

ID	Authors	Title	Speaker	Country	Affiliation	T
27	Lee Wing Hang	Application of landscape architecture for rehabilitation of quarry in Hong Kong and an overseas case study	Lee Wing Hang	Hong Kong	Ka shing	-/-
28	Lee Wing Hang	Environmentally Friendly Linkage System is showcase among engineering projects in Kai Tak Development	Lee Wing Hang	Hong Kong	Ka shing	-/-
111	Nour-Eddine Id Omar, Lahcen Boukhattem, Fahd Oudrhiri Hassani, Amin Bennouna and Aziz Oukennou	Outdoor performance analysis of different PV technologies under hot semi-arid climate	Lahcen Boukhattem	Morocco	LMPEQ-ENSAS & LEnR2E-CNEREE	-/-

12<sup>30</sup>-14<sup>00</sup> : Break

14<sup>00</sup>-15<sup>30</sup> Session 2:

Chairs: Adawiya Haider, Gaolu Zou, Lamberto Tronchin, Sergio Copiello, Constantinos Psomopoulos

ID	Authors	Title	Speaker	Country	Affiliation	T
29	Kouamé Norbert N'Guessan, Yao N'Guessan, Alphonse Diango, Christelle Perilhon, Mohamed Koïta Sako and Joseph Saraka	Energy impacts of transport modes in Abidjan (Cote d'Ivoire).	Kouamé Norbert N'Guessan	Cote d'Ivoire	Institut National Polytechnique Félix Houphouët-Boigny de Yamoussoukro	-/-
5	Alexandru Serban, Simona Lizica Paraschiv and Paraschiv Spiru	Assessment of wind energy potential based on Weibull and Rayleigh distribution models	Paraschiv Spiru	Romania	Dunarea de Jos University of Galati	-/-
36	Maurizio Carlini, Mirko Rotondo, Sara Selli and Andrea Mennuni	Simulation of a Coil Cooling System for an Innovative Compound Solar Concentrator plant by FEM Approach	Maurizio Carlini	Italy	CIRDER, University of Tusciana	-/-
141	Rabeb Belghouthi and Michel Aillerie	Enhanced ZnO Based Solar Cell Efficiency by Piezo-Phototronic Effect	Michel Aillerie	France	Université de Lorraine et CentraleSupélec, LMOPS, 57070, Metz, France	-/-

## Friday, 26 June, 2020 (Athens GMT+3)

09<sup>00</sup>-10<sup>30</sup> Session 3:

Chairs: Anna Komarova,, Auday Shaban, Benjapon Chalermssinsuwan, Paraschiv Spiru and Irina Filimonova

ID	Authors	Title	Speaker	Country	Affiliation	T
38	Gaolu Zou	The effect of international energy prices on energy production in Sichuan, China	Gaolu Zou	China	Chengdu University	-/-
48	Jurarat Nisamaneenate, Duangduen Atong, Anun Seemen and Viboon Sricharoenchaikul	Mitigating Bed Agglomeration in a Fluidized Bed Gasifier Operating on Rice Straw	Viboon Sricharoenchaikul	Thailand	Chulalongkorn University	-/-
97	Yutaro Akimoto, Hinato Takezawa, Yosuke Iijima, Shin-Nosuke Suzuki and Keiichi Okajima	Comparative Analysis of Fuel Cell and Battery Energy Systems for IoT devices	Yutaro Akimoto	Japan	University of Tsukuba	-/-
98	Kanit Soongprasit, Viboon Sricharoenchaikul and Duangduen Atong	Phenol-derived Products from Fast Pyrolysis of Organosolv Lignin	Kanit Soongprasit	Thailand	National Metal and Materials Technology Center, National Science and Technology Development Agency, Thailand	-/-

10<sup>30</sup>-11<sup>00</sup>: Break

11<sup>00</sup>-12<sup>30</sup> Session 4:

Chairs: Antonio Bernardo, Pornpote Piumsomboon, Teerawat Sema and Georgios Vokas

ID	Authors	Title	Speaker	Country	Affiliation	T
106	Irina Filimonova, Anna Komarova, Irina Provornaya, Yury Dzyuba and Arina Link	Efficiency of oil companies in Russia in context of sustainable development	Irina Filimonova	Russia	Trofimuk Institute of Petroleum Geology and Geophysics of SB RAS	-/-
107	Irina Provornaya, Irina Filimonova, Vasilij Nemov,	Energy policy of oil product pricing in Russia, USA, and Saudi Arabia	Irina Filimonova	Russia	Trofimuk Institute of Petroleum	-/-

	Anna Komarova and Yury Dzyuba				Geology and Geophysics of SB RAS	
125	Christoforos Spyrou, Panagiotis Papageorgas, Georgios Vokas and Antonios Moronis	Techno-Economic Analysis of a Hybrid Power Supply System on a Telecom Site	Christoforos Spyrou	Greece	Department of Electrical and Electronics Engineering, University of West Attica	-/-
58	Ahmed Ghdhban Al-Ziaydi, Mohammed I. Hamzah, Ahmed Majeed Al-Shammari, Haider Sabah Kadhim and Majid Jabir	The Anti-proliferative Activity of D-Mannoheptulose against Breast Cancer Cell line through Glycolysis Inhibition	Ahmed Majeed Al-Shammari	Iraq	Iraqi Center for Cancer and Medical Genetic Research, Mustansiriyah University	-/-
<b>12<sup>30</sup>-14<sup>00</sup>: Break</b>						
<b>14<sup>00</sup>-15<sup>30</sup> Session 5:</b>						
<b>Chairs: Vladimir Evdokimov, Yuri Arbuzov, Panagiotis Papageorgas, Nathalie Bassil, Fabrice Monteiro and Sofien Dellagi</b>						
<b>ID</b>	<b>Authors</b>	<b>Title</b>	<b>Speaker</b>	<b>Country</b>	<b>Affiliation</b>	<b>T</b>
127	Vasilios Orfanos, Stavros Kaminaris, Dimitrios Piromalis and Panagiotis Papageorgas	Smart Home Automation in the IoT Era: A Communication Technologies review	Vasilios Orfanos	Greece	Department of Electrical and Electronics Engineering, University of West Attica	-/-
136	Dmitry Tikhomirov, Stanislav Trunov, Aleksey Kuzmichev, Sergey Rastimeshin and Olga Shepvalova	Energy-efficient thermoelectric unit for microclimate control in cattle breeding premises	Stanislav Trunov	Russia	«VIESH-RENEWABLE ENERGY SOURCES» (VIESH-RES); «Federal Scientific Agroengineering Center VIM» (FSAC VIM)	-/-
102	Alexis Kosmidis, George Ioannidis, Constantinos Psomopoulos and George Vokas	Analysis and Simulation of Four-Wheel Independent Steering Control for Electric Vehicles	George Vokas	Greece	University of West Attica	-/-
110	Akram Jabur, Emad S. Al-Hassani and Saja A. Moosa	Preparation and Physical Properties of PCL-Metoprolol Tartrate Electrospun Nanofibers as Drug Delivery System	Akram Jabur	Iraq	University of technology	-/-
135	Yuri Arbuzov, Vladimir Evdokimov and Olga Shepvalova	Theory of concentration rate distribution over the surface of axisymmetrical receiver in cylindrical parabolic mirror-type solar energy concentrator	Yuri Arbuzov	Russia	«VIESH-RENEWABLE ENERGY SOURCES» (VIESH-RES); «Federal Scientific Agroengineering Center VIM» (FSAC VIM)	-/-
<b>Saturday, 27 June, 2020 (Athens GMT+3)</b>						
<b>08<sup>00</sup>-09<sup>30</sup> Session 06:</b>						
<b>Chairs: Kareem Jasim, Georgios Vokas, Akram Jabur, Emad S. Al-Hassani, Simona Lizica Paraschiv</b>						
<b>ID</b>	<b>Authors</b>	<b>Title</b>	<b>Speaker</b>	<b>Country</b>	<b>Affiliation</b>	<b>T</b>
129	Saowaluck Haosagul and Nipon Pisutpaisal	Ethanol Production from Waste Glycerol Using Co-carbon Sources	Saowaluck Haosagul	Thailand	King Mongkut's University of Technology North Bangkok	-/-
128	Saowaluck Haosagul, Peerada Prommeenat and Nipon Pisutpaisal	Microarray detection of sulfur oxidizing bacteria in industrial scale biotrickling filter removing H <sub>2</sub> S from biogas	Saowaluck Haosagul	Thailand	King Mongkut's University of Technology North Bangkok	-/-
60	Eleni Tsalera, Andreas Papadakis and Maria Samarakou	Urban environmental noise monitoring, profiling and classification	Eleni Tsalera	Greece	Department of Informatics and Computer Engineering, University of West Attica,	-/-
118	Petros Karaisas and Mircea Buzdugan	Harmonic Tests in Electric Power Quality	Petros Karaisas	Greece	UNIVERSITY OF WEST ATTICA	-/-
120	Carine Zaraket, Panagiotis Papageorgas, Michel Aillerie,	Cyber Security Vulnerabilities of Smart Metering Based on LPWAN	Carine Zaraket	France	Lorraine University	-/-

ID	Authors	Title	Speaker	Country	Affiliation	T
Kyriakos Agavanakis and Chafic Salame						
<b>09<sup>30</sup>-10<sup>30</sup> Session7: Special on Technologies for the Energy Transition of Societies</b>						
<b>Chairs: Constantinos Psomopoulos, Georgios Vokas, Panagiotis Papageorgas, Adawiya Haider</b>						
123	Dimitrios Alexopoulos, Georgios Vokas, C. Psomopoulos	Pumped hydro energy storage schemes to support high RES penetration in the electric power system of Greece	Dimitrios Alexopoulos	Greece	University of West Attica	-/-
101	Nektarios Giannopoulos, George Ioannidis, George Vokas and Constantinos Psomopoulos	Autonomous Active Current Balancing method for parallel-connected silicon carbide MOSFETs	Nektarios Giannopoulos	Greece	University of West Attica	-/-
115	Emmanouil Gryparis, Perikles Papadopoulos, Helen C. Leligkou and Constantinos Psomopoulos	Electricity demand and carbon emission in power generation under high penetration of electric vehicles. An EU perspective.	Emmanouil Gryparis	Greece	High Voltage and Energy Systems Lab, Dep. of Electrical and Electronics Engineering, University of West Attica	-/-
119	Laince Pierre Moulebe, Abdelwahed Touati and Nabila Rabbah	Implementation of a system for reducing the cost of PEM hydrogen storage by photovoltaics in a building through a cogeneration system	Laince Pierre Moulebe	Morocco	Laboratory of Structural Engineering, Intelligent Systems & Electrical Energy ENSAM, Hassan II University, Casablanca	-/-
126	Omaima El Alani, Abdellatif Ghennioui, Hicham Ghennioui, Yves-Marie Saint-Drenan and Philippe Blanc	Evaluation of 24-hour forecasts of global solar irradiation from Helioclim3, GFS and McClear models	Omaima El Alani	Morocco	Faculty of Sciences and Technologies: Sidi Mohamed Ben Abdellah University/ Green Energy Park (IRESEN)	-/-
41	Ahmed Al-Haddad, Zainab Kadhim, Salam Khudhair, Ali Ali, Ali Muhsen, Faiza Salim and Bahjat Kadhim	TiN@Al <sub>2</sub> O <sub>3</sub> /Al Nanocapacitor Based on Anodic Aluminum Oxide Template	Ali Ali	Iraq	Department of science, College of Basic Education, University of Babylon, Babylon, IRAQ	-/-
42	Adawiya J.Haider, Maha Al-Kinani and Sharafaldin Al-Musawi	Preparation and Characterization of Gold Coated Super Paramagnetic Iron Oxide Nanoparticle (Fe@Au) using Pulsed Laser Ablation in Liquid Method	Adawiya J.Haider	Iraq	university of Technology	-/-
<b>10<sup>30</sup>-11<sup>00</sup> : Break</b>						
<b>11<sup>00</sup>-12<sup>30</sup> Session 8:</b>						
<b>Chairs: Fabrice Monteiro, Mohamad Tabaa, Panagiotis Papegeorgas, Maurizio Carlini, Yutaro Akimoto, Julija Cerovic Smolovic and Miguel de Simón-Martín</b>						
ID	Authors	Title	Speaker	Country	Affiliation	T
39	Maurizio Carlini, Sonia Castellucci, Ilaria Ceccarelli, Mirko Rotondo and Andrea Mennuni	Study of a thermal dispersion in buildings and advantages of ceramic coatings for the reduction of energy expenditure	Maurizio Carlini	Italy	CIRDER, University of Tuscia	-/-
45	Maurizio Carlini, Sonia Castellucci, Andrea Mennuni and Sara Selli	Simulation of anaerobic digestion processes: validation of a novel software tool ADM1-based with AQUASIM	Maurizio Carlini	Italy	CIRDER, University of Tuscia	-/-
78	Paraschiv Spiru, Nicoleta Barbuta-Misu and Simona Lizica Paraschiv	Technical and economic analysis of a solar air heating system integration in a residential building wall to increase energy efficiency by solar heat gain and thermal insulation	Paraschiv Spiru	Romania	Dunarea de Jos University of Galati	-/-
83	Sambeet Mishra, Esin Oren, Chiara Bordin, Fushuan Wen and Ivo Palu	Features Extraction of Wind Ramp Events from a Virtual Wind Park	Sambeet Mishra	Estonia	Tallinn University of Technology	-/-
31	Mustafa Kamil, Maher Hasan, Kareem Jasim and Auday Shaban	Characteristics and synthesis the HgSr <sub>2</sub> -xYxCa <sub>2</sub> Cu <sub>3</sub> O <sub>8</sub> + d superconducting compound	Kareem Jasim	Iraq	University of Baghdad/ college of pure science Ibn Alhaitham/ Country. Iraq	-/-
40	Rusul Ghazi, Dhay Sabur, Ruaa Al – Hasnawy, Haider Muhsen, Bahjat Kadhim,	Structural, Electronic and Optical Properties of Transition metal Dichalcogenides layer PtS <sub>2</sub> (Se <sub>2</sub> ) for Gas Sensors	Bahjat Kadhim	Iraq	Mustansiriyah University/ Profesor instructor academy	-/-

Hamad Jappor, Faiza Salim and Ali Ali

12<sup>30</sup>-14<sup>00</sup>: Break

14<sup>00</sup>-16<sup>30</sup> Session 09 :

Chairs: Fabrice Monteiro, Michel Aillerie, AUdau Shaban, Alberto González-Martínez, Maria Samarakou, Kosmas Kavadias

ID	Authors	Title	Speaker	Country	Affiliation	T
116	Simona Lizica Paraschiv, Nicoleta Acomi, Alexandru Serban and Spiru Paraschiv	A web application for analysis of heat transfer through building walls and calculation of optimal insulation thickness	Simona Lizica Paraschiv	Romania	Dunarea de Jos University of Galati	-/-
130	Christos Varsamis, Christina Valvi, Nick Makris and Efstratios Kamitsos	Synthesis and Characterization of Multilayered ZnO/glass/ZnO Varistors	Christina Valvi	Greece	Electronic Devices and Materials Laboratory, Department of Electrical and Electronics Engineering, University of West	-/-
132	Muhammad R. Abdussami, Md. Ibrahim Adham and Hossam A.Gabbar	Modeling and performance analysis of nuclear-renewable micro hybrid energy system based on different coupling methods	Hossam A.Gabbar	Canada	UOIT	-/-
139	Anestis Anastasiadis, Ioannis Oikonomou, Dimitrios Barkas, Georgios Vokas and Constantinos Psomopoulos	Microgrids Protection Schemes, Challenges and Strategies	Anestis Anastasiadis	Greece	University of West Attica	-/-
133	Vasiliki Rokani and Stavros Kaminaris	Power Transformers Fault Diagnosis Using AI Techniques	Vasiliki Rokani	Greece	University of West Attica	-/-
134	Jose C. Alvarez, Carlos Raymundo, Gianpierre Zapata and Julio Ronceros	Patented portable spirometer based in fluid mechanics to monitor rehabilitation of patients Covid-19	Jose C. Alvarez	Peru	Universidad Peruana de Ciencias Aplicadas	-/-
140	Georgios Deiktas, Anestis Anastasiadis and Georgios Vokas	Economic Feasibility Investigation of a Vanadium Redox BESS for the Exploitation of Wind Power Rejections in Isolated Medium Size Greek Island	Georgios Deiktas	Greece	University of West Attica	-/-

Break

16<sup>30</sup>- Closing and Conference Prizes

### Offline Presentations

ID	Authors	Title	Speaker	Country	Affiliation	T
1	Anissa Ghezloun, Hamza Merabet, Nassima Oucher and Radia Djouder	COP 24 : Algeria's commitments in the fight against climate change	Anissa Ghezloun	Algeria	CDER	-/-
2	Daniel Adu and Du Jianguo	Investigating the state of Renewable Energy and concept of Pump As Turbine for Energy Generation Development	Daniel Adu	China	Jiangsu University	-/-
3	Raed Salih and Mudhir Ahmed	Simulation of the analytical solution of lasing output power for Yb <sup>(3+)</sup> :YAG thin disk laser regime in a fundamental mode operation	Raed Salih	Iraq	University of Baghdad	-/-
4	Raghad S. Mohammed, Haitham M. Mikhilif and Waleed J. Mhana	Evaluation Cross Section of Production for Indium Medical Radioisotopes	Haitham M. Mikhilif	Iraq	Department of Physics, College of Science, Mustansiriyah University	-/-
6	Noor Adil Mohammed and Sameera Ahmed Ebrahiem	Assessment of Radiation Risk Parameters for Natural Radon in three Iraqi Institutions for February	Noor Adil Mohammed	Iraq	Ministry of Education ,Director of Al-Resafa/3, Baghdad, Iraq	-/-
7	Amenah Altaie and Mazin Al-Ani	Pollen Morphology of Some Taxa of the Family Apiaceae Growing Wildly in Iraq	Amenah Altaie	Iraq	College of Education for Pure Science/ Ibn al-Haithem, University of Baghdad	-/-
9	Alwan M. Alwan, Mohammed S. Mohammed and Russul M. Shehab	Optimization of an ultra-sensitive Ag core/Au shell nanoparticle/Si Surface-enhanced Raman scattering (SERS) sensor	Russul M. Shehab	Iraq	Department of Applied Sciences, University of Technology	-/-
10	David Gómez-Camazón, David Borge-Diez and Enrique Rosales-Asensio	New improvements in existing combined-cycles: Exhaust gases treatment with amines and exhaust gas recirculation	David Gómez-Camazón	Spain	University of León. Campus de Vegazana	-/-

12	Bilal Nasir	Modeling of Stray Losses in Equivalent Circuit of Induction Machines	Bilal Nasir	Iraq	Northern Technical University / Hawijah Technical Institute	-/-
13	Paphada Limpachanangkul, Licheng Liu, Mali Hunsom and Benjapon Chalermisinsuwan	Low energy photocatalytic glycerol conversion to valuable products via Bi <sub>2</sub> O <sub>3</sub> polymorphs in the presence of H <sub>2</sub> O <sub>2</sub>	Paphada Limpachanangkul	Thailand	Department of Chemical Technology, Faculty of Science, Chulalongkorn University	-/-
14	Shaymaa Abdul Hasan, Ahmed Obaid, Mohammed Mustafa and Hanan Kadhem	Studying the Effect of the Annealing on Ag <sub>2</sub> Se Thin Film	Shaymaa Abdul Hasan	Iraq	College of Education for Pure Science/ Ibn al-Haithem, University of Baghdad	-/-
16	Shaimaa A. Abbas, Khalid H. Mahdi and Necla Cakmak	Form factor calculations for some light nuclei in the framework of electron scattering	Shaimaa A. Abbas	Iraq	Department of Physics, College of Education for Pure Science (Ibn-Alhaitham) University of Baghdad,	-/-
17	Aeshah Ali Hussein, Hadi J M Al-Agealy and Raad Hameed Majeed	Theoretical Estimation of The Trapping Reaction Rate for Deuteron- Deuteron Fusion In Nickel Metal Using Bose-Einstein Condensates Phenomena	Aeshah Ali Hussein	Iraq	University of Baghdad / College of Education for pure science (Ibn al-Haitham) / Department of Physics	-/-
19	Antonio Colmenar-Santos, Andrés León-Betancor, Ana-María Díez-Suárez, Alberto González-Martínez and Enrique Rosales-Asensio	Large-scale Desalination Based on Parabolic trough Collectors and Double-effect Absorption Heat Pumps	Alberto González-Martínez	Spain	Universidad de León	-/-
20	Enrique Rosales-Asensio, Álvaro de la Puente-Gil, Francisco José García-Moya, Jorge Blanes-Peiró and Miguel de Simón-Martín	Revision of decision-making tools for sustainable planning and proposal of a novel conceptual framework for the energy-water-food nexus	Miguel de Simón-Martín	Spain	Universidad de León	-/-
24	Hayder A. H. Al-Shemmary, Fadhil Hashim and Sura Salim Ahmed	Collapse behavior of thin-walled cylinder tubes under quasi-static axial loading	Hayder A. H. Al-Shemmary	Iraq	university of technology of iraq	-/-
30	Julija Cerovic Smolovic, Milica Muhadinovic, Milena Radonjic and Jovan Đuraškovic	Does renewable energy consumption affect economic growth in old and new member states of the European Union?	Julija Cerovic Smolovic	Montenegro	University of Montenegro	-/-
32	Shahbaa Yousif, Nada Karam, Ghada Karam and Ziad Abood	Stress- Strength Reliability Estimation for P(T<X<Z) using Exponentiated Inverse Rayleigh Distribution	Shahbaa Yousif	Iraq	Al-mustanseriya Uneversity	-/-
33	Abbas Karim Saadon, Abbas Maher Mhayyal and Kareem Ali Jasim	Effect of BaTiO <sub>3</sub> Mixture on the Structural Electrical Properties and Morphology for PET/ BaTiO <sub>3</sub> Composite	Abbas Karim Saadon	Iraq	Department of Physics, College of Education for Pure Science Ibn-Al-Haitham/ University of Baghdad	-/-
34	Suhir Abd –alaziz Jabir and Khalid Hellal Harbbi	A Comparative Study Of Williamson – Hall Method And Size- Strain Method Through X-Ray Diffraction Pattern Of Cadmium Oxide Nano Particle	Suhir Abd –alaziz Jabir	Iraq	Ministry of industry & Minerals / State company for construction industries	-/-
35	Yago Villar, Marta Menéndez, Zulima Fernández and Antonio Bernardo	Sustainable Earthworks: Optimization with the ICOM Method	Antonio Bernardo	Spain	University of León	-/-
37	Vladimir Đurišić, Julija Cerovic Smolovic, Nikola Mišnić and Suncica Rogic	Analysis of public attitudes and perceptions toward renewable energy sources in Montenegro	Vladimir Đurišić	Montenegro	University of Montenegro, Faculty of Economics	-/-
43	Yamile Díaz Torres, Hernan Hernandez Herrera, Mario Alvares Guerra Plasencia, Eduardo Pérez Novo, Lester Pimentel Cabrera and Dries Haeseldonckx	HVAC configurations for tourism facilities: an approach review for the design and exploitation	Hernan Hernandez Herrera	Colombia	Universidad Simón Bolívar, Facultad de Ingenierías, Barranquilla, Colombia.	-/-
46	Hussein Ibrahim and Aqeel Salih	Studying Properties of Propagated Transverse Modes through Optical Fibers	Hussein Ibrahim	Iraq	college of Education for pure science Ibn Alhaitham / University of Baghdad	-/-
47	Stefan Grigorean, Stefan Predoi and Gheorghe Dumitrascu	Comparative analysis regarding hybrid rocket engines with single or multi-stages.	Stefan Grigorean	Romania	Gheorghe Asachi" Technical University of Iasi,	-/-
50	Ban H Alasaad, Ahmed S Obaid, Maysaa.R.	Effect of cold plasma on the levels mineral blood components in vivo	Ban H Alasaad	Iraq	university of baghdad	-/-

	Naemah, Diana Nasir Hashem and Sala Sami Hamza					
51	Mohammad M. Farhan, Ban H Adil, Ahmed S Obaid, Maream Khaess and Alzahraa Fadhel Adnan	Effect gold nanoparticles generated by Cold Plasma for mineral blood	Ban H Adil	Iraq	University of Baghdad	-/-
52	Kadhim A. Aadim, Rafel H. Jassem, Ban H. Adil, Mohammad M Farhan and Salah M. Al-Chalabi	Synthesis of Zinc Nanoparticles by Laser Induced Plasma and its Effects on Levels of Thyroid Hormones	Ban H. Adil	Iraq	University of Baghdad	-/-
53	Nehad Jarboo'a and Abdalhameed Al-Sarraf	Influence of adding Nano / micro hydroxyapatite (HA) particles on tribological characteristics of polymethyl methacrylate (PMMA)	Nehad Jarboo'a	Iraq	College of Education for Pure Science/ Ibn al-Haithem, University of Baghdad	-/-
54	Teerawat Sema, Pipat Na Ranong, Thanthip Kiattinirachara, Pattaraporn Posoknistakul, Ratana Jiraratananon and Paitoon Tontiwachwuthikul	Absorption Kinetics of CO <sub>2</sub> in Novel Formulated 2-Amino-2-Methyl-1-Propanol and N-Methyl-4-Piperidinol Solvent	Teerawat Sema	Thailand	Department of Chemical Technology, Faculty of Science, Chulalongkorn University, Bangkok, 10330	-/-
57	Bilal Nasir and Raid Daoud	Modeling of Wind Turbine-Self Excited Induction Generator System with Pitch Angle and Excitation Capacitance Control	Bilal Nasir	Iraq	Hawijah Technical Institute	-/-
62	Wahraan Hussein, Souad Khalil and Abdulhussein Elttayef	Study the effect of nanomaterial [Ti, TiO <sub>2</sub> , TiO <sub>2</sub> : Ag, Ag] on different type of bacterial	Wahraan Hussein	Iraq	University of Baghdad College science for women	-/-
63	Husham Mahmood and Thair Alaish	Design and stimulated the detectors of high-power lasers DHPL	Husham Mahmood	Iraq	College of Education for Pure Sciences Ibn Al-Haitham	-/-
65	Nithiwadee Inmanee, Pilaiwan Chaiwang, Benjapon Chalermnsinsuwan and Pornpote Piumsomboon	Equilibrium curve of carbon dioxide adsorption-desorption using potassium carbonate on gamma-alumina in fluidized bed reactor	Pornpote Piumsomboon	Thailand	Department of Chemical Technology, Faculty of Science, Chulalongkorn University	-/-
67	Ghuzlan Ahmed, Bushra Al-Maiyaly, Bushra Hussein and Hanan Hassun	Opto- Electrical properties of p-SnSe:S /n-Si heterojunction for solar cell application	Ghuzlan Ahmed	Iraq	college of Education for pure sciences Ibn Alhaitham, University of Baghdad	-/-
68	Sarah Yaseen and Auday Shaban	Detection of altered water content of AlHammar marshes	Sarah Yaseen	Iraq	college of Education for pure sciences Ibn Alhaitham, University of Baghdad	-/-
69	Ban Alasaad, Sara Mohmmmed and Basim Rejah	Study the effect gamma radiation on blood thinning drugs (Aspirin)	Ban Alasaad	Iraq	University of Baghdad	-/-
71	Muna Mohammed and Amal Hatem	change detection of the land cover for three decades using remote sensing data and geographic information system	Muna Mohammed	Iraq	college of Education for pure sciences Ibn Alhaitham, University of Baghdad	-/-
72	Nisreen Abdalameer, Sabah Mazhir and Kadhim Aadim	The effect of ZnSe Core/shell on the properties of the Window layer for solar cell and its applications of solar energy and medicine	Kadhim Aadim	Iraq	University of Baghdad	-/-
73	Chaiwat Soanuch, Krittin Korkerd, Pornpote Piumsomboon and Benjapon Chalermnsinsuwan	Minimum fluidization velocities of binary and ternary biomass mixtures with silica sand	Benjapon Chalermnsinsuwan	Thailand	Department of Chemical Technology, Faculty of Science, Chulalongkorn University	-/-
74	Suha Fadaam, Hiba Ali, Auday Shaban and Saja Ahmed	Improving Efficiency of Solar Cell for MnS through Annealing	Suha Fadaam	Iraq	Ministry of Education, Directorate General for Education, Baghdad AL-Rusafa /1, Baghdad, Iraq.	-/-
75	Zainab Qassim and Hameed Abduljabbar	Land Cover Change for Baghdad City in the Period 1986 to 2019	Zainab Qassim	Iraq	college of Education for pure sciences Ibn Alhaitham, University of Baghdad	-/-
76	Zainab Abdullah and Hameed Abduljabbar	The Water Bodies in the Southern East of Iraq Before and After 2018	Zainab Abdullah	Iraq	college of Education for pure sciences Ibn Alhaitham, University of Baghdad	-/-
77	Maria Cairoli and Lamberto Tronchin	The architectural and acoustic quality for theatres hosting animals	Lamberto Tronchin	Italy	Via G. F. Barbieri 76, 40129 Bologna Italy	-/-
79	Prathana Nimmanterdwong, Benjapon	Simplified Empirical Model to Predict Biomass Thermal Conversion Products	Pornpote Piumsomboon	Thailand	Chulalongkorn University	-/-

	Chalermnsinsuwan and Pornpote Piumsomboon					
81	Kiattikhon Phuakpunk, Benjapon Chalermnsinsuwan and Suttichai Assabumrungrat	Comparison of chemical reaction kinetic models for corn cob pyrolysis	Kiattikhon Phuakpunk	Thailand	Energy Research Institute, Chulalongkorn University	-/-
84	Rana Mazban and Iman Hameed	The effect of doping process on the structural and optical properties of Ag <sub>2</sub> Se thin films.	Iman Hameed	Iraq	College of Education for pure Science (Pure Science (Ibn Al-Haitham), University of Baghdad, Iraq	-/-
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