



Friday, 28 May, 2021(Athens GMT+3)

08³⁰-09⁰⁰ Connection Test

09⁰⁰-10⁰⁰ Conference Inauguration

- Tmrees Welcome Speech by Professor Georgios Vokas
- University of West Attica Welcome word by Professor John Kaldelis (Vice Rector)
- Keynote Address by Professor Dimosthenis Asimakopoulos

10⁰⁰-11⁰⁰ Session 1:

Chairs: Akram Jabur, Auday Shaban, Michel Aillerie and Georges Vokas

ID	Authors	Title	Speaker	Country	Affiliation
26	Rattanaorn Apaiyakul, Pipat Na Ranong, Thanthip Kiattinirachara, Pattaraporn Posoknistakul, Pet Pakchotanon, Ratana Jiratananon, Teerawat Sema and Paitoon Tontiwachwuthikul	Density, Viscosity, Physical CO2 Diffusivity, and CO2 Absorption Capacity of Novel Blended N-Methyl-4-Piperidinol and Piperazine Solvent	Rattanaorn Apaiyakul	Thailand	Department of Chemical Technology, Faculty of Science, Chulalongkorn University
41	Anthoula Menti, Dimitrios Barkas, Stavros D. Kaminaris and Constantinos S. Psomopoulos	Supraharmonic emission from a three-phase PV system connected to the LV grid	Constantinos S. Psomopoulos	Greece	University of West Attica, Department of Electrical and Electronics Engineering
47	Micheal A. William, María José Suárez-López, Silvia Soutullo and Ahmed A. Hanafy	Techno-Economic Evaluation of Building Envelope Solutions in Hot Arid Climate: A Case Study of Educational Building	Micheal William	Egypt	Coventry University, The Knowledge Hub Universities
111	Vladimir Pavlovich Klepikov and Liubov Vladimirovna Klepikova	Distribution of oil refining resources in Russia in the context of the capacity development of refiners and regions	Vladimir Pavlovich Klepikov	Russia	National Research University Higher School of Economics
296	Ahmed A. Hameed, and Kamal M. Abood	Observations Results Improvement Using Switching Technique and Noise Source Calibration Unit	Ahmed Hameed	Iraq	Astronomy and Space Department, College of Science, University of Baghdad, Baghdad, Iraq
297	Akram Hashim Taha, Riyadh Kamil Chillab, Kareem A. Jasim, Auday H. Shaban	Comparing Different Methods for Calculating Crystal Size, Strain and Crystallinity of LaBa2Cu3O7 compound using XRD Peak Broadening Analysis	Akram Taha	Iraq	Department of Physics, Faculty of Science and Health, Koya University, Koya KOY45, Kurdistan Region, Iraq
298	Haneen Abass Alrubaie, Ban Mazin Alshabander	The effect of ZnO nanoparticles on the self-cleaning of ZnO/epoxy composites	Haneen Alrubaie	Iraq	Department of Physics, College of Science, University of Baghdad, Baghdad, Iraq.



11⁰⁰-11³⁰ : Break

11³⁰-12³⁰ Session 2:

Chairs: Chafic Salame, Panagiotis Papageorgas, Paraschiv Spiru and Olga Shepovalova

ID	Authors	Title	Speaker	Country	Affiliation
58	Hao Chen, Stian Normann Anfinnsen, Yngve Birkelund and Fuqing Yuan	Probability Distributions for Wind Speed Volatility Characteristics: A Case Study of Northern Norway	Hao Chen	Norway	UiT The Arctic University of Norway
27	Sohaib Ahmed and Farouq Hussain	The effect of addition of Nanoparticles nickel ferrite on the electrical properties of epoxy	Sohaib Ahmed	Iraq	university of baghdad
32	Hisham M. Elnajjar, Ahmed S. Shehata, A. H. Elbatran and M. F. Shehadch	Experimental and Techno-economic feasibility analysis of a Renewable Energy Technologies for Jabel Ali Port in UAE	Hisham M. Elnajjar	Egypt	Arab Academy for Science, Technology & Maritime Transport (AASTMT)
37	Abdelilah Rochd, Aboubakr Benazzouz and Ibtihal Ait Abdelmoula	Design and Implementation of an AI-based & IoT-enabled Home Energy Management System: A case study in Benguerir - Morocco.	Abdelilah Rochd	Morocco	Green Energy Park
223	Najat Abdulsada and Saleh Ali	Automatic Face Recognition using Normalized Cross Correlation (NCC) Function with Variable Template Size	Najat Abdulsada	Iraq	Department of Computer Science, College of Science, University of Baghdad.
294	Hassaneen Murtada Mohammed Hassan, Amer Shakir Alkinani	Challenges Facing the Transition of Traditional Cities to Smart	Hassaneen Murtada Mohammed Hassan	Iraq	Urban and Regional Planning Center for Postgraduate Studies, University of Baghdad, Baghdad, Iraq
295	Ahmed Abbas Hasan, Farouk Mohamed Ali, Linaz Anis Fadil, Afaf Amine, Lanja H. Abdullah, Cristina Dallos Mosquera	The Study of Drainage Patterns Distortion in The Iraqi Western Desert Using Remote Sensing Data	Ahmed Abbas Hasan	Iraq	AIKarkh University of Science, College of Remote Sensing and Geophysics, Remote Sensing Department

12³⁰-14⁰⁰ : Break

14⁰⁰-15³⁰ Session 3:

Chairs: Gabriela Ionescu, Nipon Pisutpaisal and Ojo Sunday Fayomi

ID	Authors	Title	Speaker	Country	Affiliation
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29	Riyam Fadil, Kareem Jasim and Auday Shaban	Sensitize the electrical properties of partial substitution on Mercury-Base superconductor manufactured by the solid reaction method	Kareem Jasim	Iraq	university of Baghdad
34	Alaa A. Mohammed	Effect of zirconia addition on the properties of polymethyl methacrylate matrix	Alaa A. Mohammed	Iraq	University of Technology
57	Shatha A.Salman and Adawiya J.Haider	The General Formula for Ehrhart Series of a Special Polytope in Rd	Shatha A.Salman	Iraq	University of Technology
67	Zeinab El-Fakharany and Mariam Salem	Mitigation Climate Change Impact on Irrigation Water Shortage using Brackish Groundwater and Solar Energy	Zeinab El-Fakharany	Egypt	National Water Research Center
70	Asmae Chakir, Mohamed Tabaa, Fouad Moutaouakkil, Hicham Medromi and Karim Alami	Linear programming combined to mixed integer GA for energy management optimization of a PV-Wind-Battery hybrid system subject to residential demand response	Asmae Chakir	Morocco	LPRI-FRDISI-ENSEM
299	Hassaneen Murtada Mohammed Hassan, Amer Shakir Alkinani	The possibility of implementing smart mobility in the traditional city	Hassaneen Murtada Mohammed Hassan	Iraq	Urban and Regional Planning Center for Postgraduate Studies, University of Baghdad, Baghdad, Iraq
300	Marwah Subhi Attallah, Reem Alaa Mohammed, Ruaa Haitham Abdel-Rahim	Wear and Tensile Properties of Polyester Resin Modified by Lemon Peels Particle / Chopped Carbon Fibers	Marwah Subhi Attallah	Iraq	Department of Materials Engineering / University of Technology - Iraq
301	Samara J Mohammad, Hawraa Hameed Rady, Safaa Sabri Najim	Remove phenolic pollutant on Bentonite surface nanopowder	Samara J Mohammad	Iraq	Physics Department, College of Science for women, University of Baghdad, Iraq
302	Tunis Balasim Hassan, Shaymaa M. Salih	Affect various Capping Agents on Structural and Optical properties of ZnS Nanoparticles By co-precipitation method	Tunis Balasim Hassan	Iraq	Ministry of Education, Vocational Education Directorate, Baghdad, Iraq

15³⁰-16³⁰ Session 4:

Chairs: Adawiya Haider, Ahmed S. Shehata, Chawki Lahoud and Mohamed Tabaa

ID	Authors	Title	Speaker	Country	Affiliation
76	Hanane Yaagoubi	Numerical simulation of heat transfer in the selective laser sintering process of polyamide 12	Hanane Yaagoubi	Morocco	enset



78	Hanan Kadhim, Noor Hasan, Adawiya Haider and Faras Mohammed	Characterization of Thin Films Superconductor Materials and Study of Electrical Properties	Adawiya Haider	Iraq	university of Technology
102	Vanatpornratt Sawasdee and Nipon Pisutpaisal	Potential of Napier grass Pak Chong 1 Utilization for Biofuel Production	Vanatpornratt Sawasdee	Thailand	Valaya Alongkorn Rajabhat University Under The Royal Patronage Pathumthani
105	Nada Sabri and Hadi Al-Agealy	Theoretical Studies of Electronic Transition Characteristics of Sensitizer Molecule Dye N3– SnO2 Semiconductor Interface	Nada Sabri	Iraq	Department of Physics, College of Education for Pure Science Ibn-ALHaitham, University of Baghdad, Baghdad-Iraq.
308	Mahmood ismael Mohammed	Transport planning in Iraq: Study of traffic accidents for the period (2010-2018)	Mahmood ismael Mohammed	Iraq	University of Baghdad
309	Mahmood ismael Mohammed	Transport planning: A study of the affecting characteristics of traffic accidents in Iraq	Mahmood ismael Mohammed	Iraq	University of Baghdad

Saturday, 29 May, 2021(Athens GMT+3)					
09⁰⁰-10³⁰ Session 5:					
Chairs: Abdelghani Harrag, Elena-Cristina Rada, Fouad El Haj Hassan and Suthee Traivivatana					
ID	Authors	Title	Speaker	Country	Affiliation
136	Nattadon Pannucharoenwong and Snunkhaem Echaroj Echaroj	Evaluation of titanium alloy as heat absorber for solar-based water treatment system	Assistant Professor Dr.Nattadon Pannucharoenwong	Thailand	Department of Mechanical Engineering, Faculty of Engineering, Thammasat University, THAILAND
141	Khalida F. Al-Azawi, Nehia N. Hussein and Reem M. A. Al Majeed	Evaluation the antimicrobial and antioxidant activities of the Ziziphus spina- Christi plant Leaves.	Khalida F. Al-Azawi	Iraq	University of Technology - Baghdad- Iraq
143	Kyriakos Agavanakis	Telemetry Transformation Towards Industry 4.0 Convergence – A Fuel Management Solution For The Transportation Sector Based On Digital Twins	Kyriakos Agavanakis	France	ADD/AlertGasoi l
151	Spiru Paraschiv, Lizica-Simona Paraschiv and Alexandru Serban	Increasing the energy efficiency of a building by thermal insulation to reduce the thermal load of the micro-combined cooling, heating and power system	Spiru Paraschiv	Romania	University of Galati



108	Dr. Snunkhaem Echaroj and Assistant Professor Dr. Nattadon Pannucharoenwong	Production of bio-fuel from alcohothermal liquefaction of rice straw over sulfated-graphene oxide	Dr. Snunkhaem Echaroj	Thailand	Department of Mechanical Engineering, Faculty of Engineering, Thammasat University, THAILAND
109	Aya Lafta and Abdalhameed Al-Sarraf	Study of Some Physical and Mechanical Properties of Paper Sheets Treated With Different Polymeric Adhesive Solution	Aya Lafta	Iraq	Department of Physics, College of Education for Pure Science Ibn-Al-Haitham, University of Baghdad, IRAQ

10³⁰-11⁰⁰: Break

11⁰⁰-12³⁰ Session 6:

Chairs: Agata Matarazzo, Anna Komarova, Benjapon Chalermisinsuwan, José C. A. Merino and Marwan Bruche

ID	Authors	Title	Speaker	Country	Affiliation
110	Farouq Hussain and Amel Abbas	Structural Analysis for Ni _{1-x} Zn _x Fe ₂ O ₄ Spinel Ferrite by PXRD and Rietveld refinement method	Farouq Hussain	Iraq	College of Education for Pure Sciences Ibn Alhaitham, University of Baghdad, Baghdad, Iraq.
117	Vanatpornratt Sawasdee, Sasitorn Hasin and Nipon Pisutpaisal	Fly Ash Utilization for Methane Production Improvement from Co-Digestion between Cow Dung and Pennisetum Purpureum	Nipon Pisutpaisal	Thailand	King Mongkut's University of Technology North Bangkok
199	Mohamed Ali, Luqmaan Habib and Youssef Shatilla	Advanced Modeling of Nanofluid-Based Solar Receivers in the Concentrated Solar Power Trough to Enhance the Heat Absorptivity	Mohamed Ali	United Arab Emirates	Khalifa University of science and technology
203	Abel Rouboa, Eliseu Monteiro and Matheus Oliveira	Fixed bed gasifier for thermal treatment of MSW and agricultural through EMSO	Matheus Oliveira	United States	University of Pennsylvania

12³⁰-14⁰⁰: Break

14⁰⁰-15³⁰ Session 7:

Chairs: Arbuzov Yuri, Wongkot Wongsapai, Zhixue ZHENG

ID	Authors	Title	Speaker	Country	Affiliation
132	Alyaa Munshid, Nabeel Kadim Abdel Sahib and Eman Khalil	Evaluate the fabricated polycaprolacton /chitosan- based electrospun nanofibers for skin regeneration	Alyaa Munshid	Iraq	Biomedical Eng. Dep. Engineering Collage ,Al-Nahrain university ,Baghdad -Iraq



205	Eliseu Monteiro and Abel Rouboa	Numerical Modeling of Plasma Gasification Process of Polychlorinated Biphenyl Wastes	Eliseu Monteiro	Portugal	University of Pennsylvania
134	Abdelrahman Sobhy, Tamer Megahed and Mohammed Abo-Zahhad	Overhead Transmission Lines Dynamic Rating Estimation for Renewable Energy Integration Using Machine Learning	Abdelrahman Sobhy	Egypt	Egypt Japan university of science and technology E-JUST
196	Anna Komarova, Irina Filimonova and Alexander Novikov	The impact of the resource and environmental factors on the economic development of Russian regions	Irina Filimonova	Russia	Institute of petroleum Geology and Geophysics SB RAS
82	Dimitrios Alexopoulos, Anestis Anastasiadis, Georgios Vokas, Stavros Kaminaris and Constantinos Psomopoulos	A review of flexibility options for high RES penetration in power systems - focusing the Greek case	Dimitrios Alexopoulos	Greece	University of West Attica, Department of Electrical and Electronics Engineering
197	Irina Bocharova and Alexander Rymanov	Simultaneous decisions in different-sized groups in electricity markets	Alexander Rymanov	Russia	RANEPA
193	Irina Filimonova, Irina Provornaya, Vasily Nemo, Anna Komarova and Darya Dochkina	Resilience of resource regions of Russia	Irina Filimonova	Russia	Trofimuk Institute of Petroleum Geology and Geophysics of Siberian Branch Russian Academy of Sciences (IPGG SB RAS)
204	Armando Soares and Abel Rouboa	Viscous Dissipation in the Heat Transfer between a Rotating Cylinder and Viscous Media under Forced Convection	Armando Soares	Portugal	University of Pennsylvania
15³⁰-17⁰⁰ Session 8:					
Chairs: Anna Komarova, Mohd R. Abu Mansor, Sergio Copiello, Viboon Sricharoenchaikul and Evdokimov Vladimir					
ID	Authors	Title	Speaker	Country	Affiliation
155	Dr.Snunkhaem Echaroj and Assistant Professor Dr. Nattadon Pannucharoenwong	Investigation of palm fibre pyrolysis over acidic catalyst for bio-fuel production	Dr. Snunkhaem Echaroj	Thailand	Department of Mechanical Engineering, Faculty of Engineering, Thammasat University, THAILAND
166	Direk Nualsing and Nattadon Pannucharoenwong	Textural characteristic of anodized aluminium foil for thermal energy storage application	Nattadon Pannucharoenwong	Thailand	Department of Mechanical Engineering, Faculty of Engineering, Thammasat University, THAILAND

167	Elena Najjar, Mahmoud Al-Hindi, May Massoud and Walid Saad	Life Cycle Assessment of a seawater reverse osmosis plant powered by a hybrid energy system (fossil fuel and waste to energy)	Mahmoud Al-Hindi	Lebanon	American University of Beirut
161	Magdy Tawfik, Ahmed S. Shehata, Mostafa S. Hamad, Amr Ali Hassan and Mohamed A. Kotb	Energy Management Strategies for a marine port in Egypt	Magdy Tawfik	Egypt	Arab Academy for Science, Technology & Maritime Transport (AASTMT)
116	Abdulhussein A. Alkufi, Shaymaa Kadhim and Shatha Alhous	Comparison of Excess Lifetime Cancer Risk for different age groups for selected flour samples	Abdulhussein A. Alkufi	Iraq	Education Directorate of Najaf, Ministry of Education
194	Irina Filimonova, Vasiliy Nemov, Anna Komarova, Mihail Mishenin and Vladislav Kozhevnikov	Relationship of renewable energy consumption to economic, environmental and institutional factors in Europe	Irina Filimonova	Russia	Trofimuk Institute of Petroleum Geology and Geophysics of Siberian Branch Russian Academy of Sciences (IPGG SB RAS)

Sunday, 30 May, 2021 (Athens GMT+3)

09⁰⁰-11⁰⁰ Session 09:

Chairs: Diudonne Kidmo Kaoga, Kyriakos Agavanakis, Marco Schiavon and Irina Filimonova

ID	Authors	Title	Speaker	Country	Affiliation
153	Jattupon Pongkun and Bundit Krittacom	Development of the Heat Flux Instrument using the Black Body of Porous Media	Bundit Krittacom	Thailand	Rajamangala University of Technology Isan
157	Dimitrios Rimpas, Stavros Kaminaris, Dimitrios Piromalis and Georgios Vokas	A Review on Electric Vehicle Hybrid Energy Storage Systems	Dimitrios Rimpas	Greece	University of West Attica, Department of Electrical and Electronic Engineering
198	Ahmed Osama Bedair, Ahmed S. Shehata, Mostafa S. Hamad and Adil Tawfik	A Novel Forced Air/ Water Injection System for Efficient Cooling of Solar Panels	Ahmed Osama Bedair	Egypt	Arab Academy for Science, Technology & Maritime Transport (AASTMT)
158	Sadaqat Ali, Zhixue Zheng, Michel Aillerie, Jean-Paul Sawicki, Marie-Cécile Péra and Daniel Hissel	A review on DC microgrid energy management systems dedicated to residential applications	Sadaqat Ali	France	LMOPS, Université de Lorraine
13	Ali Salah, Ahmed Shehata, Ibrahim Sadek and Mohamed Kotb	Improved HHO Generator Design Approach to Supplement Fossil Fuel in Internal Combustion Engine	Ali Salah	Egypt	Marine Engineering Department, Arab Academy for Science



					Technology and Maritime Transport, Alexandria, Egypt.
178	Nikolaos Korakianitis, Antonios Theodorakis, Georgios Vokas, George Ioannidis and Pavlos Pachos	Simulation of Wireless Power Transfer on Electric Vehicles Charging System	Pachos Pavlos	Greece	UNIVERSITY OF WEST ATTICA
154	Alaa Sarhan Farj and Khalida F. Al-Azawi	Synthesis, characterization and antimicrobial activity of Novel Mannich bases	Alaa Sarhan Farj	Iraq	University of Technology - Baghdad- Iraq
11⁰⁰-11³⁰: Break					
11³⁰- Closing Note and Conference Prizes					
Offline Presentations					
ID	Authors	Title	Speaker	Country	Affiliation
2	Nataly Alejandra Galvis, Diana Carolina Piza Gonzalez, Fredy Mesa and Andrés Julián Aristizábal	Methodology for the Technical and Financial Enforcement of Photovoltaic Technology in Bogotá, Colombia	Fredy Mesa	Colombia	Universidad del Rosario
4	Sura H. Ahmed and Wafaa Salih	Enhancement of the Characteristics for Polymeric Blend (PMMA/UP) Used in Socket Prosthetic	Sura H. Ahmed	Iraq	university of technology
5	Ayad Asad and Maha Jawad	Comparison of Municipal Indicators (Solid Waste, Wastewater, Water and Sanitation) for Baghdad and Amman Cities According to (ISO 37120: 2014 - Sustainable Development of Communities)	Ayad Asad	Iraq	Mayoralty of Baghdad
6	Christy Lahoud, Chawki Lahoud, Marwan Brouche and Mohamed Hmadi	A Review of single-effect solar absorption chillers and its perspective on Lebanese case	Chawki Lahoud	Lebanon	saint joseph university
7	Farah Faris Kaddoori, Hind Fadhil Oleiwib, A.S Obaid, Ramiz Ahmed Al-Ansari, Ban.H Adil and Alzahraa Fadhel Adnan	The Effect of Plasma Jet-Generated Gold Nanoparticles on Liver Functions	Ban.H Adil	Iraq	University of Baghdad, College of Science for women, Baghdad, Iraq
8	Riyam Fadil and Kareem Jasim	Preparation and effect partial substitution of Mercury by Black lead Oxidation on electrical properties of the Hg _{1-x} PbxBa ₂ Ca ₂ Cu ₃ O _{8+d} superconductor	Kareem Jasim	Iraq	university of Baghdad



9	Haider Hasheem, Haider Haider and Kareem Jasim	Effect Partial Substitution Lead by Antimony on the structural properties of PbBa ₂ Ca ₂ Cu ₃ O ₁₀ compound	Kareem Jasim	Iraq	university of Baghdad
10	Khlood Shanan, Haider Haider and Kareem Jasim	Effect of the Partial substitution of lanthanum element instead of the yttrium element on Structural and Electrical properties of YBa ₂ Cu ₃ O _{6+d} superconducting compound	Kareem Jasim	Iraq	university of Baghdad
11	Mohammed Hameed and Kareem Jasim	Study the effect of coating on the optical, insulation, thermal and structural properties of glass	Kareem Jasim	Iraq	university of Baghdad
12	Noora Rasheed, Abdul Kareem Ali and Abdullah Ali	Study the partial substitution of Hg by Tl on the properties of Cu _{0.5} (TL _{0.5-x} Hg _x)Ba ₂ Ca ₂ Cu ₃ +O _{10+d} superconductors	Noora Rasheed	Iraq	University of Tikrit College of Education Department of Physics
15	Sabine Saad, Chawki Lahoud, Marwan Brouche, Mohamed Hmadi, Mazen Ghandour and Adel Mortada	Advanced Tool for Elaborating a Sustainable Energy and Climate Action Plan at Municipalities Level	Chawki Lahoud	Lebanon	saint joseph university
16	Muayad Abed, Ali Younus and Haider Haider	Hypothetical investigation of electron movement cross section at Metal-semiconductor	Haider Haider	Iraq	Kufa University - Faculty of Education for Girls- Physics Department, Iraq
17	Mayada H.Saleem, Alaa A. Abdul-Hamead and Farhad M. Othman	Performance of Waste Materials and Carbon Nanotube in Concrete Incorporated with Carbon Fiber	Mayada H.Saleem	Iraq	University of technology
18	Zaidoon Dhedan, Thair Alaish and Hanady Kamil	Design and Simulation of a New System for Producing Laser Beams without Resonator "NSPLBR"	Thair Alaish	Iraq	College of Education for Pure Sciences Ibn Al-Haitham
19	Laith Jawad and Mustafa Homadi	Utilizing remote sensing and GIS techniques to locate optimal sites for thermal solar plants in Iraq	Laith Jawad	Iraq	university of baghdad - college of science
20	Ban Bader and Khawla Salah	Optoelectronic properties of ZnO/Si heterojunction prepared by laser ablation	Khawla Salah	Iraq	University of technology
21	Doaa Abed and Hameed Abduljabbar	The Effect of Different Flooding Ratio on Al-Shuwaija Marsh	Hameed Abduljabbar	Iraq	University of Baghdad
22	Kadhim Ali Kadhim, Zena M. Qaragholi, Afraa Ali Kadhim, Ghofran Khudair Hamad, Safa Omran, Ayat Hamid and Kadhim Ali Kadhim	A cluster Survey on The Use of Herbs in The Iraqi Society	Kadhim Ali Kadhim	Iraq	Department of Pharmacy, Al-Yarmouk College University
23	Zdenka Dragašević, Nikola Milovic, Vladimir Djurisić and Tamara Backović Vulić	An analysis of the factors that influence the formation of the price of electricity in the deregulated markets of developing countries	Vladimir Djurisić	Montenegro	Faculty of Economics, University of Montenegro
24	Hanady Kamil and Thair Alaish	Determine the hazard level and biological effects for visible laser pointers	Hanady Kamil	Iraq	Directorate of Education of First Karkh, Ministry of

					Education, Baghdad, Iraq
25	Zainab Neamah, Kareem Jasim and Balqees Ahmed	Study the effective addition of coumarin dye on the optical properties of Poly (Methyl Meth Acrylate)	Zainab Neamah	Iraq	Department of Physics College of Education for pure science Ibn-Al-Haithem, University of Baghdad
28	Dieudonne Kidmo, Bachirou Bogno, Kodji Deli, Jean Luc Nsouandele and Michel Aillerie	Prospects of Hydropower for Electricity Generation in the East Region of Cameroon	Dieudonne Kidmo	Cameroon	University of Maroua
30	Maryam Ali, Thair Alaish and Hanady Kamil	Analyzing and simulating the mechanism of laser medical therapy	Thair Alaish	Iraq	College of Education for Pure Sciences Ibn Al-Haitham
31	Maryam Ali, Thair Alaish and Hanady Kamil	A Simulation break down the Blood Clot Using a Free Electron Laser System	Thair Alaish	Iraq	College of Education for Pure Sciences Ibn Al-Haitham
35	Mohammed Abboud and Luay Al-Mulla Huwaish	Significance of the Urban Observatory for Urban Development Management in Cities	Mohammed Abboud	Iraq	Babil Municipalities Directorate
36	Yamile Díaz Torres, Roy Reyes Calvo, Hernán Hernández Herrera, Mario A Álvarez Guerra, Julio Gómez Sarduy and Jorge Iván Silva Ortega	Procedure to obtain the optimal distribution cooling capacity of an air-condensed chiller plant for a hotel facility conceptual design	Hernán Hernández Herrera	Colombia	Universidad Simón Bolívar, Facultad de Ingenierías, Barranquilla, Colombia
38	Mohammed Abboud and Luay Al-Mulla Huwaish	Global Indicators and their Significance in Instilling the Principles of Urban Sustainability	Mohammed Abboud	Iraq	Babil Municipalities Directorate
39	Mushtaq Hamzaa, Mutasim Malik and Sarteel Al-Shammary	Study of desertification in the east of Iraq in (2013-2020) by supervised maximum likelihood	Mushtaq Hamzaa	Iraq	College of Science, Department of Physics, University of Wasit, Iraq
40	Asraa Fawzi, Khawla Khashan and Aseel Hadi	Preparation and Characterization of TiO ₂ NPs by PLAL Technique	Khawla Khashan	Iraq	University of Technology
42	Raghda Abed and Areaaj Alrawi	Urbanization and Its Impact on Water Pollution of Canals (Army Canal as a Paradigm)	Raghda Abed	Iraq	Urban and Regional Planning Center at the University of Baghdad
44	Ahmed H. Oleiwi	Study Some Properties for UPS Composites Reinforced by Sunflower Husk Ash	Ahmed H. Oleiwi	Iraq	Wasit University
45	Anwar Sabri Jawad, Qasim Najem Obaid Thewaini and Sharafaldin Al-Musawi	Honey/Polymeric Nanofiber Enriched with Clove (<i>Syzygium Aromaticum</i> L.) Extract and Al ₂ O ₃ nanoparticles: Antibacterial and In Vitro Wound Healing Studies	Anwar Sabri Jawad	Iraq	Al-Qasim Green University
46	Ali Hussein F Alnasraui and Sharafaldin Al-Musawi	Nanoformulation of Intelligence Polymeric Nanocarrier for	Sharafaldin Al-Musawi	Iraq	Al-Qasim Green University

		Resveratrol Targeted Delivery and Study its Cytotoxic, Apoptotic, and Genetics Effects in Epidermoid Carcinoma Therapy			
48	Salih Abdul Mahdi and Sharafaldin Al-Musawi	Impact of Al ₂ O ₃ & Fe ₂ O ₄ nanoparticles on Genes Expression levels on Biofilm in Staphylococcus Epidermidis	Salih Abdul Mahdi	Iraq	Al-Qasim Green University
49	Vincent Godwe Gormo, Dieudonne Kidmo, Bello Ngoussandou, Bachirou Bogno, Danwe Raidandi and Michel Aillerie	Wind power as an alternative to sustain the energy needs in Garoua and Guider, North Region of Cameroon	Dieudonne Kidmo	Cameroon	University of Maroua
50	Suthee Traivivatana, Weerin Wangjiraniran and Sudatip Piyavee	Standardized the natural gas data for Thailand's sustainable goal	Suthee Traivivatana	Thailand	Energy Research Institute, Chulalongkorn University
51	Bushra H. Hussein, Iman Khudayer, Bushra Al-Maiyaly and Hanan Hassun	Study and Preparation of optoelectronic properties of AgAl _{1-x} In _x Se ₂ /Si heterojunction solar cell applications	Bushra H. Hussein	Iraq	University of Baghdad
52	Najat Abdulsada and Saleh Ali	Human Face Detection in a Crowd Image Based on Template Matching Technique	Najat Abdulsada	Iraq	Department of Computer Science, College of Science, University of Baghdad.
54	Jannah Azzawi and Inbethaq Abdulameer	Environmental Monitoring of Water Area in the Najaf Sea, Iraq During 1990-2020 using Remote Sensing Data	Inbethaq Abdulameer	Iraq	College of education for pure science Ibn Al-Haitham, University of Baghdad, Iraq
59	Norhidayah Mat Taib, Mohd Radzi Abu Mansor and Wan Mohd Faizal Wan Mahmood	Ignition Characteristics of Hydrogen in a Noble Gas Compression Ignition Engine	Norhidayah Mat Taib	Malaysia	Universiti Kebangsaan Malaysia
60	Ahmed Khaleefa and Hameed Abduljabbar	The Effect of Using Gaussian, Kurtosis and LogCosh as Kernels in ICA on the Satellite Classification Accuracy	Ahmed Khaleefa	Iraq	Department of Physics, College of Education for Pure Science Ibn-Al-Haitham, University of Baghdad, Baghdad, Iraq
61	H. Hamzah and Alaa Badr	Simulation and evaluation of Elliptical hyperboloid solar concentrator by using Zemax program	Alaa Badr	Iraq	university of baghdad
62	Y. Khudair and Alaa Badr	Optical Characteristics of Simulated Design of Parabolic Trough Solar Concentrator	Alaa Badr	Iraq	university of baghdad
63	Mustafa Hayder, Hadi Alattabi and Ali Alzubadi	Study some of nuclear properties of some N-rich Al isotopes near the island of inversion N=20 by SHF method	Mustafa Hayder	Iraq	University of Wasit



64	Haneen Rasheed, Abdul Kareem Dahash and Ghuson Mohammed	The repeated annealing effects on structural and electrical properties of the compound $\text{Bi}_{2-x}(\text{Hg} \text{ and } \text{Cd})_x\text{Ba}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+?}$	Haneen Rasheed	Iraq	University of Tikrit College of Education Department of physics
65	Shahla H.Mohammad Ali and Ahmed K. Rasheed	capital cost estimation for Industrial projects	Shahla H.Mohammad Ali	Iraq	University of Technology
66	Michael Fratita, Florin Popescu, Jorge Martins, Francisco Brito and Tiago Costa	Direct Water injection and combustion time in SI engines	Michael Fratita	Romania	Dunarea de Jos University of Galati
68	Amel Abbas and Farouq Hussain	A study of crystal structure properties of $\text{Ba}_{1-x}\text{Sr}_x\text{TiO}_3$ by using x-ray diffraction and Rietveld refinement method	Farouq Hussain	Iraq	College of Education for Pure Sciences Ibn Alhaitham, University of Baghdad, Baghdad, Iraq.
69	Karrar Jihad and Areej Othman	The use of treated wastewater in the Nasiriyah power plant	Karrar Jihad	Iraq	Center for Urban and Regional Planning for Postgraduate Studies, Baghdad University, Baghdad, Iraq.
71	Noora Rasheed, Abdul Kareem Ali, Kareem Jasim and Abdullah Ali	Partial substitution, structural and electrical properties of the $\text{Cu}_{0.5}(\text{TL}_{0.5-x}\text{Hg}_x)\text{Ba}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+d}$ superconducting	Noora Rasheed	Iraq	University of Tikrit College of Education Department of physics
72	Alaa Taha, Abdul Kareem Ali, Kareem Jasim and Abdullah Ali	A Study of the Effects of Structural Properties by Mercury Partial Substitution of Silver for $\text{TL}_{1.6}\text{Ag}_{0.4-x}\text{Hg}_x\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+d}$ Compound	Alaa Taha	Iraq	University of Tikrit College of Education Department of physics
73	Ban Adil, Mohammad Al-Halbosi, Maath Mohammed, Sarah Hameed, Fatima Hasan, Danaa Abdalrazaq and Waseem Kaith	Effect of cold atmospheric plasma on wound of diabetic rats by FE-DBD system	Ban Adil	Iraq	University of Baghdad
74	Vaclav Novotny, Jan Spale and David Juraj Szucs	Direct integration of an organic Rankine cycle into an internal combustion engine cooling system for comprehensive and simplified waste heat recovery	Vaclav Novotny	Czechia	Czech Technical University in Prague Jugoslavskych partyzanu 1580/3 160 00 Prague Czech Republic ID: 68407700 VAT: CZ68407700
75	Youssef Hamidi, Mustapha Malha and Abdellah Bah	Analysis of the thermal behavior of hollow bricks walls filled with PCM: Effect of PCM location	Youssef Hamidi	Morocco	Mohammed V University in Rabat, École Nationale Supérieure D'arts Et Métiers, ENSAM



					B.P.6207, Rabat, Morocco
77	Abdelhamid Addala, Moussa Boudiaf and Embarek Bentouhami	Nigella sativa L. seeds biomass as a potential sorbent in removal of Copper from aqueous solutions and wastewaters.	Abdelhamid Addala	Algeria	Petrochemical and Process engineering department, August 20, 1955 Skikda, Algeria
79	Farah Thiab and Ihsan Hadi	The concept of parametric urbanism and its dimensions in sustainable city	Farah Thiab	Iraq	university of baghdad
80	Hadeel Abdelelah Abdel Razaq and Hanadi A. Abdul-Razaq	Polymorphism of E-selection gene for Coronary Artery Disease in Ramadi / Anbar - Iraq	Hadeel Abdelelah Abdel Razaq	Iraq	University of Anbar / College of Education for Women / Department of Biology
83	Jovan Đurašković, Milena Konatar and Milivoje Radović	Renewable energy in the Western Balkans: policies, developments and perspectives	Jovan Đurašković	Montenegro	University of Montenegro, Faculty of Economics
84	Amir Ahmed, Noor Ali, Adi Mahmoud and Faras Qasim	Synthesis of bulk superconductors using the Sol-gel method	Amir Ahmed	Iraq	University of Technology
85	Boris Gusev, Anna Grishina, Evgenij Korolev and Arkadij Ayzenshtadt	Strength equation of composite materials and fractal dimension of cracks	Anna Grishina	Russia	Moscow State University of Civil Engineering
86	Ahmed Muzhar and Luay Al-Mulla Huwaish	Environmental sustainability of water purification stations in Al-Musayyib city	Ahmed Muzhar	Iraq	University of Baghdad
87	Olga Poddaeva and Pavel Churin	Improving the comfort of pedestrian and recreational areas of the stylobate part of the residential complex	Pavel Churin	Russia	Moscow State University of Civil Engineering
88	Olga Poddaeva and Anastasia Fedosova	Damping capacity of materials and its effect on the dynamic behavior of structures	Olga Poddaeva	Russia	MGSU
89	Yuri Arbuzov, Vladimir Evdokimov and Olga Shepvalova	Reflection factor of light on axisymmetric radiation receiver of cylindrical parabolic solar energy concentrator	Olga Shepvalova	Russia	Federal Scientific Agroengineering Center VIM (FSAC VIM)
90	S.S. Dorzhiev, E.G. Bazarova, S.V. Pimenov and S.S. Dorzhiev	Application of renewable energy sources for water extraction from atmospheric air	E.G. Bazarova	Russia	Federal Scientific Agroengineering Center VIM (FSAC VIM)
91	Pavel Ilyushin, Olga Shepvalova, Sergey Filippov and Anton Nekrasov	Calculating the sequence of stationary modes in power distribution networks of Russia for wide-scale integration of renewable energy based installations	Olga Shepvalova	Russia	Federal Scientific Agroengineering Center VIM (FSAC VIM)
92	Aleksei Khimenko, Dmitry Tikhomirov, Aleksey Kuzmichev, Stanislav Trunov and Olga Shepvalova	Thermal characteristics and operation efficiency of solid-state electro thermal storage	Olga Shepvalova	Russia	Federal Scientific Agroengineering Center VIM (FSAC VIM)



93	Olga Shepovalova and Sergei Chirkov	Solar energy toroidal concentrators	Olga Shepovalova	Russia	Federal Scientific Agroengineering Center VIM (FSAC VIM)
94	Elaaf Swady and Mohammed Jawad	Dependency of the AC conductivity of blend nanocomposites on the LiI and ZnO percent	Mohammed Jawad	Iraq	University of Baghdad-College of Science
95	We'Am Sami and Zainab Sabeeh Sadeq	MgFe ₂ O ₄ @ZnFe ₂ O ₄ Nanocomposite as a Magnetic Catalyst: Synthesis and Oil Spill Removal from Water	We'Am Sami	Iraq	Department of Physics, College of Education, University of Al-Qadisiyah, Qadisiyah, Iraq
96	Agata Matarazzo	An Economic and Financial Analysis of a Biomass Energy Project	Agata Matarazzo	Italy	university of catania
97	Agata Matarazzo	Environmental Sustainability Indicators applied to Tourism Sector in Sicily	Agata Matarazzo	Italy	university of catania
98	Shaimaa Radhie, Moheb Faleeh and Abbass Sahan	Gender security in planning of the Iraqi city, in the past and present (a comparative study)	Shaimaa Radhie	Iraq	University of Baghdad, Center for Urban and Regional Planning for Graduate Studies
99	Hussein Ajeel and Amna Sabree	Impact of effective transport strategies to facing crises in cities	Hussein Ajeel	Iraq	Center for Urban and Regional Planning
100	Methaq Mohsin and Hadi Al-Agealy	Theoretical Investigation of Charge Transfer at N3 Sensitized Molecule Dye Contact with TiO ₂ and ZnO Semiconductor	Methaq Mohsin	Iraq	University of Baghdad
101	Methaq Mohsin and Hadi Al-Agealy	Theoretical Calculation of the Electronic Current at N3 Contact with TiO ₂ Solar Cell Devices	Methaq Mohsin	Iraq	University of Baghdad
103	Ruqaya Ghali and Amna Ali	Development of Rural Villages as New Sustainable Urban Centers Al-Bassamiya City Center "a case study"	Ruqaya Ghali	Iraq	University of Baghdad, College of Centre of Urban and Regional Planning
104	Kitmo K., Répélé Djidimbélé, Dieudonne Kaoga Kidmo, Guy Bertrand Tchaya and Noel Djongyang	Optimization of the Power flow of Photovoltaic Generators in Electrical Networks by MPPT algorithm and parallel active filters	Dieudonne Kaoga Kidmo	Cameroon	University of Maroua
106	Agata Matarazzo	THE NEW ZERO-EMISSION'S ECONOMY FINANCIAL INSTRUMENTS	Agata Matarazzo	Italy	university of catania
107	Rola Abbas and Mohammed Al-Maamori	Design And Performance Evaluation of the Shape Memory characterization Machine for (SMPs)	Rola Abbas	Iraq	University of technology
112	Anestis Anastasiadis, Ioannis Oikonomou, Dimitrios Barkas,	Microgrids Protection Schemes, Challenges And Strategies	Georgios Vokas	Greece	University of West Attica

	Georgios Vokas and Constantinos Psomopoulos				
113	Spyridon Daousis, Georgios Sarigiannis, Athanasios Trigkas and Panagiotis Papageorgas	The Blue Bee Project: A proposal for the development of an Internet of ships sensing network for environmental data collection and sharing	Panagiotis Papageorgas	Greece	University of West Attica
114	Nikolaos Monios, Ioannis Anastasiou, Nikolaos Skarvelis, Dimitrios Piromallis, Panagiotis Papageorgas and Kyriakos Agavanakis	Feasibility study for the deployment of LPWAN sensor and actuation network in a vessel environment towards the Internet of Marine Things (IoMT)	Panagiotis Papageorgas	Greece	University of West Attica
115	Athanasios Trigkas, Georgios Sarigiannis, Spyridon Daousis, Panagiotis Papageorgas and Kyriakos Agavanakis	NB-IoT for Environmental Monitoring and a Fire Early Warning system in Mount Pentelicus	Panagiotis Papageorgas	Greece	University of West Attica
118	Dimitrios Kalyvas, Ioannis Dogas, Carine Zaraket, Kyriakos Agavanakis, Panagiotis Papageorgas, Georgios Vokas and Dimitrios Piromallis	Multifunctional Smart Meter Gateway as an enabling device for local P2P energy trading using Blockchain	Panagiotis Papageorgas	Greece	Department of Electrical and Electronics Engineering, University of West Attica
119	Omaima El Alani, Mounir Abraim, Hicham Ghennioui, Abdellatif Ghennioui, Ilyass Ikenbi and Fatima-Ezzahra Dahr	Short Term Solar Irradiance Forecasting using Sky Images based on a Hybrid CNN-MLP Model	Omaima El Alani	Morocco	Sidi Mohhamed Ben Abdellah University: Faculty of Sciences and Technologies/ Green Energy Park -IRESEN
120	Nada S. Karam, Shahbaa M. Yousif, Ghada S. Karam and Ziad Abood	Cascade Stress-Strength Reliability for $P(X<Y<Z)$ of (1+1) and (2+1) Systems	Ziad Abood	Iraq	Iraq- Un. of Mustansiriyah
121	Michael Fratita, Florin Popescu, Jorge Martins, Francisco Brito and Tiago Costa	Water Injection as a way for Pollution Control	Michael Fratita	Romania	Dunarea de Jos University of Galati
123	Hala Rasheed and Auday Shaban	Evaluate the Pollution of underground water by multi Sub-Kriging interpolation methods	Auday Shaban	Iraq	University of Baghdad, College of Science
124	Sabreen Ismael, Abdul Kareem Ali, Amer Mahamood and Kareem Jasim	Improvements of Electrical Properties of Bi ₂ -xPbxSr ₂ Ca ₂ Cu ₃ O ₁₀ +d Ceramic by effective partial substitution of Bismuth by lead	Kareem Jasim	Iraq	university of Baghdad
125	Hala Rasheed and Auday Shaban	The best interpolation methods for evaluate water table pollution	Hala Rasheed	Iraq	Collage of Science - University of Baghdad
126	Hawraa Hadi, Eman Al-Hilo, Saif Alshrefi and Dhufir Hadi	Improving fractal compression technique for CT scan Images	Hawraa Hadi	Iraq	Department of medical physics, Hilla University College, Babylon , Iraq
128	Ayad Salim and Ali Aljanabi	Organization of residential land use in master plans	Ayad Salim	Iraq	Center for urban and regional planning for

					graduate studies, baghdad, iraq
129	Abbas Abbas and Luai Mohammed	Effect social Equilibrium on the spatial belonging	Abbas Abbas	Iraq	Center for Urban and Regional Planning for Graduate Studies, Baghdad, Iraq
130	Hocine Belahya, Abdelghani Boubekri, Rafik Belarbi and Zaid Romani	Optimization design envelope for building in hot climate using design of experiment and life cycle cost	Hocine Belahya	Algeria	Laboratory of Development of New and Renewable Energies in the Arid and Saharan Zones, Ouargla University
131	Suroor Najy and Nawal Ghazal	The surface temperature of the earth's features for thermal Landsat 8 satellite at the University of Baghdad	Suroor Najy	Iraq	Collage of Science - University of Baghdad
133	Daniel Adu, Du Jianguo and Chang Guanghui	Development of Solar and Bioenergy technology in Africa for Green Development- Addressing Barriers and Untapped Potential	Daniel Adu	China	Jiangsu University
135	Mustafa Hathalab, Mahdi Edan, Basim Hasan, Adawiya Haider, Hussein Ammar and Ahmad Slman	The CFD Validation and Economical Optimization of Heat Transfer Enhancement Utilizing CuO Nanoparticles in Double Pipe Heat Exchanger with Various Economic Conditions (before, during and after COVID-19 Pandemic)	Adawiya Haider	Iraq	university of Technology
137	Mounira Bourebia, Soumaya Meddah, Zohier Mentouri, Amel Oulabbas, Sihem Achouri and Lakhdar Laouar	Experimental study of the effect of shot peening parameters on the surface texture - Influence on the adhesion of a paint coating	Mounira Bourebia	Algeria	Research Center in Industrial Technologies. CRTI. P.O.BOX 64, chéraga-16014, Algeria
138	Colbert Baba, Dieudonne Kidmo Kaoga, Ahmat Tom, Rachel Raïssa Ngono Mvondo, Bernard Kola and Noel Djongyang	Effect of neem (Azadirachta Indica) fibers on mechanical, thermal and durability properties of adobe bricks	Dieudonne Kidmo Kaoga	Cameroon	UNIVERSITY OF MAROUA
139	Sergio Copiello and Carlo Grillenzoni	Robust space-time modeling of solar photovoltaic deployment	Sergio Copiello	Italy	Università IUAV di Venezia Ex Convento delle Terese Dorsoduro 2206 30123, Venezia
140	Maurizio Carlini, Sara Selli, Sonia Castellucci, Andrea Mennuni and Luca Casini	Beer Spent Grains Biomass for Biogas Production: Characterization and Anaerobic Digestion-Oriented Pre-Treatments	Maurizio Carlini	Italy	CIRDER, University of Tuscia
142	Houcine Bensaha, Abdelouahab Benseddik, Djemoui Lalmi,	Dried products and sustainable development in Saharan Regions	Houcine Bensaha	Algeria	Unité de Recherche

	Rachid Zegait, Rafik Arbouche and Slimane Abdelhakem	Case of the M'zab region (Algerian Northern Sahara)			Appliquée en Energies Renouvelables, URAER
144	Constantinos Psomopoulos, Konstantinos Kalkanis, Eleni Chatzistamou, Kyriaki Kiskira, George Ioannidis and Stavros Kaminaris	End of life treatment of photovoltaic panels. Expected volumes up to 2045 in E.U.	Constantinos Psomopoulos	Greece	Department of Electrical and Electronics Engineering, University of West Attica,
145	Duaa Salim and Sameera Ebrahiem	Study of Transition Strength for Two Isotopes Carbon and Oxygen	Duaa Salim	Iraq	Physics department, College of Education for pure sciences Ibn Al-Haitham, University of Baghdad, Baghdad, Iraq.
146	Ismail Radhi, Hamid Al-Bahli and Sameera Ebrahiem	The temperature changes of the fuel, the fuel clad and the reactor building in the event of a break in the hot and cold leg of the VVER1000 power reactors by modeling on the PC TRAN program	Ismail Radhi	Iraq	Physics department, College of Education for pure sciences Ibn Al-Haitham, University of Baghdad, Baghdad, Iraq.
147	Bariq Waly and Sameera Ebrahiem	Study of the nuclear properties of an aluminum isotope in the production of third cycle elements	Bariq Waly	Iraq	Physics department, College of Education for pure sciences Ibn Al-Haitham, University of Baghdad, Baghdad, Iraq.
148	Mohd Radzi Abu Mansor and Taib Iskandar Mohamad	Numerical investigation on combustion and emissions in a direct injection compression ignition engine fuelled with various hydrogen-methane-diesel blends at different intake air temperatures	Mohd Radzi Abu Mansor	Malaysia	Universiti Kebangsaan Malaysia
149	Riyam Fadil and Kareem Jasim	Using XRD analysis methods by modern technical programs to study the structural properties of $Hg_{1-x}Ag_xBa_2Ca_2Cu_3O_{8+d}$ compounds	Riyam Fadil	Iraq	Department of Physics, College of Education for pure science Ibn-Al-Haitham, University of Baghdad, Baghdad, Iraq
150	Waseem Kaith, Marwa Samir, Ban Adil and Sala Hamza	Effect of non-thermal plasma by FE-DBD scheme on lipids in blood in vivo study	Ban Adil	Iraq	University of Baghdad

152	Mariam Gabr Salem, Nadia Eshra and Nader Mohamed Shafiqe	Impact of Nile Level Drop on Irrigation Pump Stations in Delta Region; Technical and Economical	Nadia Eshra	Egypt	Hydropower - Nile Research Institute (NRI), National Water Research Center (NWRC), El-Qanater El-Khairiya,
156	Dulyapat Thiemsakul, Chaiyanan Kamsuwan, Ratchanon Piemjaiswang, Pornpote Piumsombon and Benjapon Chalermssinsuwan	Computational fluid dynamics simulation of internally circulating fluidized bed reactor for dry reforming of methane	Benjapon Chalermssinsuwan	Thailand	Department of Chemical Technology, Faculty of Science, Chulalongkorn University
159	Ahmed Abdulla, Adawia Haider and Allaa Jabbar	Preparation of TiO ₂ Nano-thin films by pulsed laser deposition: A Review	Ahmed Abdulla	Iraq	university of Technology
160	Anzhelika Karaeva, Elena Magaril, Vincenzo Torretta, Marco Ragazzi and Elena Cristina Rada	Green Energy Development in an Industrial Region: a Case-Study of Sverdlovsk Region	Elena Cristina Rada	Italy	Insubria University
162	Abdelhamid Mansouri and Fateh Krim	Hysteresis MPPT Servo-Speed Control of Wind Turbine Coupled to Doubly Fed Induction Generator	Abdelhamid Mansouri	Algeria	University of Ferhat Abbas Setif 1
163	We'Am Sami and Zainab Sabeeh Sadeq	Poly (vinyl pyrrolidone) as a Capping of Synthesized Powdered MgFe ₂ O ₄ @ZnFe ₂ O ₄ Nanocomposite Ferrite by Microwave-Assisted Combustion Method	We'Am Sami	Iraq	Department of Physics, College of Education, University of Al-Qadisiyah, Qadisiyah, Iraq.
164	Enrique-Luis Molina-Ibáñez, Enrique Rosales-Asensio, Clara Pérez-Molina, Francisco Mur-Pérez and Antonio Colmenar-Santos	Analysis on the electric vehicle with a hybrid storage system and the use of Superconducting magnetic energy storage (SMES)	Enrique Rosales-Asensio	Spain	Department of Electrical Engineering, Universidad de Las Palmas de Gran Canaria
165	Anaam Mohsin, Ramiz Al-Ansari and Ban Adil	Non-thermal plasma effects on of Structural and Optical Properties of NiO:Li thin films Prepared by The Spray pyrolysis Technique	Ban Adil	Iraq	University of Baghdad
168	Adama Sarr , Cheikh Mouhamed Fadel Kebe, Moussa Gueye, Ababacar Ndiaye	Impact of Temporal and Spatial Variability of Solar Resource on Technical Sizing of Isolated Solar Installations in Senegal using Satellite Data	Adama Sarr	Senegal	Ecole Supérieure Polytechnique
169	Ruqaya Ghali and Amna Ali	Planning foundations for the Development of Rural Villages New Urban Centers	Ruqaya Ghali	Iraq	University of Baghdad, College of Centre of Urban and Regional Planning
170	Ramona Giurea, Ilaria Precazzini, Gabriela Ionescu, Marco Ragazzi and Marco Schiavon	Circular Economy, Waste and Energy Management for a Sustainable Agro-tourism	Marco Schiavon	Italy	University of Trento



171	Ismail Radhi, Hamid Al-Bahli and Sameera Ebrahiem	Comparison of pressure distribution of reactor VVER1000 when exposed to a fracture in the hot feet and the steam line inside the reactor container during the first seconds	Ismail Radhi	Iraq	Physics department, College of Education for pure sciences Ibn Al-Haitham, University of Baghdad, Baghdad, Iraq.
172	Ayaat Ftekan, Yusra Alobaidi and Ammar Hamza	Antibacterial activities of carbon quantum dots derived from Lemon juice	Ammar Hamza	Iraq	Civil Engineering - University of Technology - Iraq
173	Nipon Pisutpaisal, Saowaluck Housagul, Sukunya Oaew and Peerada Peerada Prommeenate	Profile of sulfur oxidizing bacteria in full-scale Biotrickling filter to remove H ₂ S in biogas from in cassava starch industry	Nipon Pisutpaisal	Thailand	King Mongkut's University of Technology North Bangkok
174	Saowaluck Housagul, Sukunya Oaew, Peerada Peerada Prommeenate and Nipon Pisutpaisal	DNA microarray for detection and identification of sulfur oxidizing bacteria in Biogas Clean-up System	Nipon Pisutpaisal	Thailand	King Mongkut's University of Technology North Bangkok
175	Soumaya Meddah, Mounira Bourebia, Zoheir Mentouri, Amel Oulabbas, Sihem Achouri and Lakhder Laouar	Effect of erosion parameters on the texture direction parameter - Study by experimental plans.	Soumaya Meddah	Algeria	Research Center in Industrial Technologies. CRTI P.O.BOX 64, chéragia-16014, Algeria
176	Nattawut Jaiboon and Wongkot Wongsapai	Greenhouse Gas Mitigation Potential from Waste Heat Recovery for Power Generation in Cement Industry: The Case of Thailand	Nattawut Jaiboon	Thailand	Chiang Mai University
177	Nassanun Srikaummun and Wongkot Wongsapai	Greenhouse Gas Mitigation and Electricity Saving Potential From Replacing Refrigerants in Thai Refrigerator.	Nassanun Srikaummun	Thailand	Chaingmai University
179	Ali Alwahab, Najwa Jubier and Jafer Odah	Structural Properties of NiO thin films deposited by DC magnetron sputtering: influence of the Preparing Features	Ali Alwahab	Iraq	Wasit Education Directorate, Ministry of Education, Wasit, Iraq
180	Phitsinee Muangjai and Wongkot Wongsapai	Assessment of Carbon Reduction Costs in Renewable Energy Technologies for Heat Generation in Thailand	Phitsinee Muangjai	Thailand	Chiang Mai University
181	Michael Fratita, Florin Popescu, Jorge Martins, Francisco Brito, Tiago Costa and Ion Ion	Water Injection in Spark Ignition Engines - Impact on Engine Cycle	Michael Fratita	Romania	"Dunarea de Jos" University of Galati
182	Randa Dhahi and Malia Hamil	Biogenic gold Nanoparticles as Antibrain cancer Agents	Randa Dhahi	Iraq	Al-Iraqia university
184	Mai Emad, Tamer F.Megahed and Sahar S.Kadah	Swarm analytical hierarchical processing approach for sizing hybrid energy storage	Mai Emad	Egypt	faculty of engineering Mansoura university
185	José Carlos Alvarez Merino, Leonardo Bravo, Roberto C.	Knowledge construction and systematization of solar	José Carlos Alvarez Merino	Peru	Universidad Peruana de



	Marçal, Kazuo Hatakeyama and Enrique Barrantes	adsorption refrigeration prototypes			Ciencias Aplicadas
186	Ciprian Ion Rizescu, Dana Rizescu and Cristian Gabriel Alionte	Discussion regarding the comfort parameters of the households	Cristian Gabriel Alionte	Romania	University "Politehnica" of Bucharest
187	Ahmed Muzhar and Luay Al-Mulla Huwaish	Environmental and spatial assessment of sanitation services in Al-Musayyib city	Ahmed Muzhar	Iraq	University of Baghdad
188	Umponruch Phusuwan, Duangduen Atong, Jurarat Nisamaneenate and Viboon Sricharoenchaikul	Sustainable fuel production from steam reforming of waste motor oil over olivine-supported Fe catalyst	Viboon Sricharoenchaikul	Thailand	Chulalongkorn University
189	Sopit Daroon and Wongkot Wongsapai	Estimation of Greenhouse Gas Mitigation Potential from Carbon Intensity and Energy Data Analysis from Thai Industrial Sector	Wongkot Wongsapai	Thailand	Chiang Mai University
190	Mohammed Mohammed and Kareem Jasim	Preparing and studying the electrical properties of Iraqi's stained glass	Mohammed Mohammed	Iraq	Department of Physics, College of Education for pure science Ibn-Al-Haitham, University of Baghdad, Baghdad, Iraq
191	Maya Julian, Sofiene Dellagi and Georgios Vokas	Electricity Transition in Lebanon from Fuel To Solar Energy with Micro Grid System Management	Maya Julian	France	LGIPM, Lorraine University
195	Adebayo Adekunle, Osagie Ibhadode Osagie, Daniel Nwaigwe and Rukevwe. Imonikosaye	Comparative Study On Energy Charges For Metered And Unmetered Subscribers For Minimal Effect Of Estimated Billing Using The Average Cluster Load Technique	Adebayo Adekunle	Nigeria	Nigerian Building and Road Research Institute
200	Punchaluck Sirinwaranon, Viboon Sricharoenchaikul and Duangduen Atong	Catalytic performance of Co, Fe on MCM-41 synthesized from illite waste for gasification of torrefied cassava rhizome	Duangduen Atong	Thailand	National Metal and Materials Technology Center
201	Ali Ali, Rusul Ghazi and Bahjat Kadhim	Photodetector Properties of [Perovskite - Porous Silicon] Heterojunction	Ali Ali	Iraq	Department of Science, College of Basic Education, University of Babylon, IRAQ
202	Fercha Nessma, Benbouaziz Akila and Alkama Djamel	Incorporating Photovoltaic Panels into School Lighting: A Resource for Balancing Clean Energy Production and Visual Comfort Case study: Algerian public school	Fercha Nessma	Algeria	University of Batna 1
206	Opeoluwa Akinradewo, Olushola Akinshipe, Clinton Aigbavboa, Moyahabo Maake and Michael Onyia	Mitigating Engineering Skills Deficiency in South Africa	Opeoluwa Akinradewo	South Africa	University of Johannesburg
207	Babatunde Fatai Ogunbayo and Ohis Clinton Aigbavboa	Stakeholders' Behaviour in the Maintenance Management of	Babatunde Fatai Ogunbayo	South Africa	UNIVERSITY OF



		Public Buildings: A bane to maintenance culture			JOHANNESBURG
208	Adefemi Adeodu, Alasia Tamunosaki, Ilesanmi Daniyan and Rendani Maladzhi	Development of a Motorized Castor Oil Extractor from Locally Sourced Materials	Adefemi Adeodu	Nigeria	Department of Mechanical and Industrial Engineering, University of South Africa, South Africa
209	Olushola Akinshipe, Clinton Aigbavboa and Didibhuku Thwala	The Rationale for Sino-African Relations in the Construction Industry: The Case of Nigeria	Olushola Akinshipe	South Africa	University of Johannesburg
210	Olushola Akinshipe, Ifeoluwa B Oluleye, Michael A Olukolajo, Clinton Aigbavboa and Didibhuku Thwala	The Preparedness of Nigerian Built Environment Students Towards Delivering Sustainable Construction	Olushola Akinshipe	South Africa	University of Johannesburg
211	Olushola Akinshipe, Opeoluwa Akinradewo, Clinton Aigbavboa, Moyahabo Maake and Didibhuku Thwala	Engineering Skills Shortage: A Bane to Better Performance in the Construction Industry	Olushola Akinshipe	South Africa	University of Johannesburg
212	Konstantinos Kalkanis, Panagiotis Papageorgas, Stavros Kaminaris, Dimitris Piromalis, George Banis, Athanasios Batagiannis and Dimitrios Mpelesis	3D Printing of an Advanced Design Emergency Mechanical Ventilator, in Response to the COVID 19 Pandemic	Konstantinos Kalkanis	Greece	University of West Attica
213	Babatunde Fatai Ogunbayo, Ohis Clinton Aigbavboa and Didibhuku Wellington Thwala	Occupants' Maintenance Requests in Higher Educational Institution (HEI) Residential Buildings	Babatunde Fatai Ogunbayo	South Africa	UNIVERSITY OF JOHANNESBURG
214	Saja A. Moosa, Akram Jabur and Emad S. Al Hassani	Effect of Different Polycaprolactone scaffolds Concentration on Metoprolol Tartrate Release Ratio	Saja A. Moosa	Iraq	Department of Materials Engineering- University of Technology- Iraq
215	Abdullah Harby, Ahmed S. Shehata, Rola Afify and Ahmed Hanfy	Experimental and Mathematical investigation of Wells Turbine under bi-directional flow	Abdullah Harby	Egypt	Arab Academy for Science, Technology & Maritime Transport
216	Pathiwat Waramit, Panuwat Chanmak, Rapeepong Peamsuwan and Bundit Krittacom	Forced Convection Enhancement of Air Flowing Inside Circular Pipe with Varying the Pitch (P) of Wire-Mesh Porous Media	Bundit Krittacom	Thailand	Rajamangala University of Technology Isan
217	Pornsawan Tongbai, Kitti Keawchart, Niwat Ketchat and Bundit Krittacom	Spherical Packed-Bed Porous Burner using Diesel Oil as Fuel	Bundit Krittacom	Thailand	Rajamangala University of Technology Isan
218	Suradech Sinjapo, Taveesin Lekpradit and Bundit Krittacom	Permeability of Wire-Mesh Porous Media Estimated by a Darcy-Forchheimer Equation	Bundit Krittacom	Thailand	Rajamangala University of Technology Isan
219	Kanit Soongprasit, Viboon Sricharoenchaikul and Duangduen Atong	Selective aromatic production from fast pyrolysis of sugarcane bagasse lignin over ZSM-5 catalyst	Duangduen Atong	Thailand	National Metal and Materials Technology Center
220	Israa Hassan, Sameera Ebrahiem and Raghad Abbas	Calculated the quadrupole electrical transmission $ M(E2) ^2$ W.u ? For even-even nuclides of	Israa Hassan	Iraq	Physics department, College of

		strontium (78-100Sr and 66-76Ge)			Education for pure sciences Ibn Al-Haitham, University of Baghdad, Baghdad, Iraq.
221	Safana Odah and Arkan Ridha	Study of Ground Properties of Oxygen Isotopes using Cosh Potential	Safana Odah	Iraq	University of Baghdad / College of Science / Department of Physics
222	Supawan Vichaphund, Duangduen Atong, Panida Wimuktiwana, Kanit Soongprasit and Viboon Sricharoenchaikul	Aromatic and aliphatic production of catalytic pyrolysis of lignin using ZSM-5/Al-SBA-15 catalyst derived from high-calcium fly ash	Duangduen Atong	Thailand	National Metal and Materials Technology Center

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