

[010]Proceedings and Program : International  
Exchange and Innovation Conference on  
Engineering & Science : IEICES 2024

<https://hdl.handle.net/2324/7323433>

---

出版情報 : Proceedings of International Exchange and Innovation Conference on Engineering & Sciences (IEICES). 10, 2024-10-17. International Exchange and Innovation Conference on Engineering & Sciences

バージョン :

権利関係 : Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International



## List of the Presented Manuscripts

227 papers were submitted before the submission deadline. 195 papers were accepted after the reviews. Finally, 190 papers were presented at the conference and the authors did not present 05 papers. According to the IEICES 2024 policies, only 189 papers were mentioned in the manuscripts and the author withdrew 01 paper after the presentation.

No	Page	Paper & Autor(s)
1	1-10	<b>Smart Shopping Cart Mobile Application (SmartCart): A Collaborative Shopping Cart System Across Multiple Devices</b> Muhammad Amirul Asyraaf Roslan, Haryani Haron, Universiti Putra Malaysia, Malaysia
2	11-18	<b>Enhancing the Chemical Properties and Recovery Rates of Organic Fertilizer through Carbon-to-Nitrogen (C/N) Ratio Manipulations of Biomass Wastes</b> Arsenio Jr. D. Bulfa, Fionna May J. Chuang, Jose Edwin C. Cubelo, Marjun C. Alvarado College of Agriculture, Philippines
3	19-25	<b>Ultrasonic Influence on Germination and Early Growth of Bell Pepper Seeds</b> Marjun C. Alvarado, Arsenio D. Bulfa Jr. Annalissa L. Aquino University of the Philippines Los Baños (UPLB),
4	26-32	<b>Performance Assessment of PySEBAL Model-Derived Evapotranspiration Using Eddy Covariance Measurements in the Philippines</b> Alvin John B. Felipe, Ronaldo B. Saludes, Rubenito M. Lampayan, Patrick Lemuel P. Relativo University of the Philippines Los Baños, Philippines
5	33-41	<b>Banana Peel Waste as a Source of Nanocellulose - Recent Progress, Challenges and Future Prospects</b> Marjun C. Alvarado, Kevin F. Yaptenco, Ma. Cristine Concepcion D. Ignacio, Ma. Camille Acabal, Antonio L. Acedo Jr. University of the Philippines Los Baños (UPLB), Philippines
6	42-47	<b>The Influence of Soccer Boots Insole's Surface Roughness and Hardness on Short-Sprint and Change of Direction Performance</b> Muhammad Shaleh Mazuki, Shariman Ismadi Ismail, Norasrudin Sulaiman, Rahmat Adnan, Hiroyuki Nunome, Uwe Gustav Kersting Solehuddin Shuib Universiti Teknologi MARA, Malaysia
7	48-53	<b>Suitability Evaluation of Existing Agrometeorological Network in Luzon, Philippines Using GIS-based Analytical Hierarchy Process (AHP)</b> Alvin John B. Felipe, Jeremiah G. Magallanes, Michel P. Abriol University of the Philippines Los Baños, Philippines
8	54-59	<b>Evaluating the Performance of Multiple Carbon Capture Technologies of Hot Potassium Carbonate (HPC) and Monoethanolamine (MEA)</b> Rudha Khudhair Mohammed, Hooman Farzaneh Kyushu University, Japan
9	60-67	<b>Design and Development of Combined Cacao Bean Dehuller-Pulverizer Machine for Cocoa Powder Processing</b> Jack O. Bertulfo, John Eduard Mendoza, James Patrick G. Cular Agusan del Sur State College of Agriculture and Technology, Bunawan, Philippines
10	68-73	<b>Optimal Allocation of Renewable Energy Resources to Improve Voltage Profile and Minimize Power Losses on the Most Critical Buses Prone to Voltage Instability</b> Okendo Edwin Otieno, Farzaneh Hooman Kyushu University, Japan
11	74-78	<b>Evaluation of the Morphological and Physiological Changes of Okra (Abelmoschus esculentus) during Seed Maturation</b> Arsenio Jr. D. Bulfa, Annalissa L. Aquino, Marjun C. Alvarado Silliman University, Philippines
12	79-84	<b>Development of Rubber Creping Machine for Improved Profitability in Rubber Production in Agusan del Sur, Philippines</b> Mariam A. Bumaras, Daylen Ann M. Hermosilla, Jack O. Bertulfo Agusan del Sur

		State College of Agriculture and Technology, Philippines
13	85-91	<b>Optimized Design of a DCM Single-Input Dual-Output DC-DC PFM Boost Converter Featuring Zero Current Detection</b> Junric D. Veras, Shimie A. Baghari, Re-Ann Cristine O. Calimpusan Caraga State University, Philippines
14	92-98	<b>A Preliminary Assessment of the Potential of Boiler Ash and Spent Bleaching Earth as Raw Materials for Bricks Production</b> Jennievb H. Poliran, Jumil M. Pelayo, Jack O. Bertulfo Caraga State University, Philippines
15	99-104	<b>Investigation of the Effects of Waste Stone Powder as an Additive for Alluvial Soil</b> Julia Beatriz Dimalanta, Vaughn Rovin Garcia, Winzly Lao, Joenel Galupino, and Mary Ann Adajar De La Salle University – Manila, Philippines
16	105-111	<b>Energy Inputs and Economic Analysis of Organic and Inorganic Rice Production in Agusan Del Sur, Philippines</b> Jane M. Tecson and Julie O. Lucnod, Frederick Mark L. Marzo Agusan del Sur State College of Agriculture and Technology, Philippines
17	112-120	<b>Effects of Chitosan and Pomelo (Citrus Maxima var. Magallanes) Peel Extract on the Postharvest Quality and Shelf Life of Bitter Gourd (Momordica Charantia l. var. Galaxy Max F1) under Ambient Condition</b> Presneil S. Maglasang, Glysdi Care S. McCarthy, Philip Donald C. Sanchez, Febie T. Paglinawan Caraga State University, Butuan City, Philippines
18	121-127	<b>Utilization of Agricultural Wastes in Enhancing Strength and Reducing Shrink-Swell Potential of Expansive Soils</b> Mary Ann Adajar, Edward Andrei Cacho, Mishael Joy De Castro, Peter John Robles, and Daniel Alfonso Uson De La Salle University, Philippines
19	128-134	<b>Assessing Videogrammetric Techniques for Measuring High Aspect Ratio Wing Deflection in Wind Tunnel Application</b> Norzaima Nordin, Mohammad Yazdi Harmin Universiti Pertahanan Nasional, Malaysia
20	135-141	<b>Valorization and Characterization of Spray-Dried Unsalable Ripe Papaya (Carica papaya L.) Puree as Potential Food Flavoring Powder</b> Anna Mae A. Apatan, Dexter D. Pabatang, Philip Donald C. Sanchez, Genesis Jared A. Cutamora, Marjun C. Alvarado Caraga State University, Philippines
21	142-147	<b>Enhancing 3D Printed Bed-Resting Ankle-Foot Orthosis Design through Topology Optimization</b> Amir Mustakim Ab Rashid, Ahmad Haziq Darwisy Mukhainizam, Helmi Rashid, Muhammad Hanif Ramlee, Azizah Intan Pangesty, Abdul Halim Abdullah Universiti Teknologi MARA, Malaysia
22	148-155	<b>Effect of Air Jet Splitting on the Elliptical Burner Inverse Diffusion Flame Characteristics: A Computational Study</b> Ahmed A. Mahgoub, Eslam I. Mohamed, Ahmed A. Adam, Mohamed S. Mohamed Gamal, Ahmed M. Abdalnaim, Ahmed H. Elkholy, Mohamed Elmously Helwan University, Egypt
23	156-163	<b>Modified Biochar for Antibiotics Removal in Aqueous Environments: A Mini Review</b> He Xiaoran, Osama Eljamal, Bidyut Baran Saha Kyushu University, Japan
24	164-170	<b>Challenges and Future Directions in Cacao Bean Hulling and Grinding Process Technology: A Review</b> Reca S. Bautista, Arnold G. Apdohan, Rossana Marie C. Amongo University of the Philippines Los Baños (UPLB), Laguna Philippines
25	171-176	<b>The Peri-Urban Sprawl: Characterization and Analysis of Rice Cropland Conversion Using Remote Sensing and GIS Techniques in Butuan City</b> Charlene A. Bientozal, Glorie Joy C. Malaluan, Jun Love E. Gesta, Lorie Cris S. Asube Caraga Center for Geo-Informatics, Philippines

26	177-182	<b>A Comparative Study on the Correlation of Geomagnetic Variations dB/dt between Low-Latitude Stations</b> Aznilinda Zainuddin, Muhammad Asraf Hairuddin, Zatul Iffah Abd Latiff, Anwar Santoso, Felipe Benavides, Ahmad Ihsan Mohd Yassin, Mohamad Huzaimy Jusoh, Universiti Teknologi MARA, Malaysia
27	183-189	<b>Short-Term Photovoltaic Power Forecasting Using a Neural Network Dynamic Time Series</b> Thatree Mamee, Usa Boonbumrung, Netithorn Ditnin, Patamaporn Sripadungtham, Nitikorn Nanthawirojsiri King Mongkut's University of Technology Thonburi (KMUTT), Thailand
28	190-197	<b>Differential Diffusion Effect in H<sub>2</sub>/NH<sub>3</sub> Non-Premixed Flames and Flamelet-Based Models</b> Ahmed Adam, Reo Kai, Hiroaki Watanabe Kyushu University, Japan
29	198-203	<b>Development of a Cacao Bean "Theobroma cacao L." Huller</b> Reca S. Bautista, Arnold G. Apdohan, Rossana Marie C. Amongo University of the Philippines Los Baños (UPLB), Laguna Philippines
30	204-210	<b>Bacterial Properties, Carbon-Nitrogen Profile, and Plant Growth Potential of Limestone Mining Overburden</b> Reginawanti Hindersah, Noor Muhammad Mauludy, Betty Natalie Fitriatin, Toto Sunarto, Saon Banerjee Universitas Padjadjaran, Indonesia
31	211-218	<b>Assessment of Synthetic Aperture Radar (SAR) and Optical Remote Sensing Data in Aboveground Carbon Stock Estimation of Coconut (Cocos nucifera L.) in Butuan City</b> Gracelle W. Antiporda, Karla Marie E. Bernaldez, Jun Love E. Gesta Department of Geodetic Engineering, Caraga Center for Geo-Informatics, Philippines
32	219-224	<b>Atrial Fibrillation Denoise Using Wavelet Adaptive Filter</b> Nur Izzani Mat Rozi, Tan Jia Min, Fakroul Ridzuan Hashim, Shazreen Shaharuddin, Maizatullifah Miskan, National Defence University of Malaysia, Malaysia
33	225-231	<b>Effects of Different Cutting Heights and Irrigation Techniques on the Yield Performance of Ratoon Rice (Oryza sativa)</b> Jane M. Tecson, Julie O. Lucnod, Frederick Mark L. Marzo Faculty of the College of Engineering and Information Sciences, Philippines
34	232-239	<b>Comparative Analysis of Integration Indices and Object-Based Approach Using Sentinel-2 Data for Effective Monitoring of Aquaculture Fish Cages in Nasipit Port, Agusan Del Norte</b> Rod Aaron P. Cataluña, Daniel C. De La Cena III, John Rudmark L. Ebol, Arturo G. Cauba Jr. Caraga State University Philippines
35	240-245	<b>Assessment of Geomagnetically Induced Currents (GICs) in Johor Malaysia During the Severe Geomagnetic Storm of 11th May 2024</b> Zatul Iffah binti Abd Latiff, Aznilinda Zainuddin, Muhammad Asraf Hairuddin, Nur Dalila Khirul Ashar, Mohamad Huzaimy Jusoh Universiti Teknologi MARA, Malaysia
36	246-251	<b>Towards Becoming Energy-Independent Village: A Case Study of Solar Rural Electrification in Lalumpe Village, Indonesia</b> Meita Rumbayan, Christy Pasiowan, Alwin Sambul Sam Ratulangi University, Indonesia
37	252-259	<b>IoT-Based Climate Control System for Cultivation of Oyster Mushroom (Pleurotus ostreatus) Fruiting Bag</b> Chris Jasmine T. Niog, Ronieto N. Mendoza, Lovely Mae Dagsa, Jake C. Martinez Caraga State University, Phillipines
38	260-266	<b>The Effect of Immersion Weathering on the Tensile Properties of rHDPE Green Composite Material</b> Maidiana Othman, Nor Akmar, Siti Khadijah Che Osmi, Nor Zaima Nordin, Nur Fadzilatulhuda Abd Halimee National Defence University of Malaysia, Malaysia
39	267-274	<b>Mapping Bamboo Species in Agusan Del Norte, Caraga Region Using Remote Sensing and GIS Techniques</b>

		Arturo G. Cauba Jr., Raymark S. Corpuz, Jemuel Lusterios Caraga State University, Philippines.
40	275-281	<b>Optimizing PV Solar Deployment on Hilly Terrain: Techno-Economic Analysis of Grading and Dynamic Mismatch Losses</b> Abderrahmane Nafa, Michele Curcio Pacifico Energy K.K., Japan
41	282-288	<b>Design and Development of a Hand-Operated Cacao Pod Splitting Device</b> Aljon E. Bocobo, Rey B. Padios Jr, Joe Ann L. Gaballo Caraga State University, Philippines
42	289-296	<b>Design and Simulation of Natural-Slope Reinforcement using Non-Frame Method: A Case Study in Davao City, Philippines</b> Mardione Aalbert Mozo, Jan Earl A. Lanzar, Lindsay D. Sefuentes, Diane Therese O. Villa-Abrille Ateneo de Davao University, Philippines
43	297-304	<b>Assessing the Irrigability Index of Selected Irrigation Systems in Camarines Sur, Philippines</b> Jona B. Clarianes, Rubenito M. Lampayan, Roger A. Luyun Jr. University of the Philippines Los Baños, Phillipines
44	305-311	<b>The Effect of the Matric Suction of Compacted Polyurethane-Clay Liner on the Development of Desiccation Cracks</b> Cielo D. Frianeza, Mary Ann Q. Adajar De La Salle University, Philippines
45	312-318	<b>Real-Time Monitoring and Adaptive Control of Solar Panel Cooling for Enhanced Power Harvest Through IoT Integration</b> Mae Ann T. Pojas, Mark James M. Magayon, Alfred Dennis B. Balamad, Jeffrey T. Dellosa, Lovely Mae Dagsa Caraga State University, Philippines
46	319-324	<b>Using GIS and Analytical Hierarchy Process (AHP) For Suitability Mapping of Potential Sites of Bamboo Species Plantation in Agusan Del Norte</b> Arturo G. Cauba Jr., Christian Dale Cunanan, Raymart B. Monteclaro College of Engineering and Geosciences, Phillipines
47	325-331	<b>Yield Estimation of Major Crops in Butuan City, Agusan del Norte Using Geospatial Techniques</b> Sajonia, Edgardo Ricardo Jr B., Sajonia, Anamarie P., Caraga State University, Philippines
48	332-339	<b>Propulsion Requirement and Analysis of a Canard Prandtl – Wing Unmanned Aerial Vehicle Platform for Civilian-Oriented Missions</b> Cindy May C. Belivestre, Jonathan C. Maglasang Caraga State University, Philippines
49	340-346	<b>Dynamic Control Comparison: Tuned-PID vs Trained Reinforcement Learning of the Double Inverted Pendulum on a Two-Wheeled Platform</b> Sean Audie I. Buscano II, Re-Ann Cristine O. Calimpusan , Rodulf Joshua Candare Caraga State University, the Philippines
50	347-352	<b>Development of Biofilter Using a Biochar from Pericarp of Durian, Mangosteen, and Banana in Reducing Nickel Concentration in Wastewater</b> Floramae A. Cerro, Dhavé G. Algo, Juven G. Luzorata, Aljon E. Bocobo, Ephraim Joy B. Beltran Caraga State University, Philippines
51	353-358	<b>Influence of Temperature on Ignition Loss and Morphology of Horsetail Ash</b> Francis Matthew Chuyaco, Warren Cedric O, Florissa Tan, Audrey Kashmir Vasquez, Joenel Galupino, Erica EliceUy, Irene Olivia Ubay-Anongphouth, Jomari Tan, Cris Angelo Fernandez, De La Salle University, Philippines.
52	359-364	<b>Mapping Suitable Solar Farm Sites in Suez Governorate via Remote Sensing and GIS Techniques</b> Mohammed Hussien Yadem Lamien, Hooman Farzaneh Kyushu University, Japan
53	365-370	<b>Design and Development of an Iot-Based Air Quality Monitoring System for Libjo Mining Corporation</b> Donald P. Mondea, Ronieto N. Mendoza, Jeffrey T. Dellosa, Dhan Jharyd B. Felias Caraga State University, Philippines
54	371-378	<b>Study on Combustion Performances and Droplet Combustion Characteristics of Palm Oil Biodiesel Blends Fuel</b>

		Norwazan Abdul Rahim, Mohd. Rosdzimin Abdul Rahman, Ameer Suhel, Muhammad Zuhair Habibudin, Muhammad Danial Muhammad Afiq Wong, Jason Te Juin National Defence University of Malaysia, Malaysia.
55	379-384	<b>Estimation of Compression Index Using Genetic Algorithm Approach</b> Sean Cavan C. Co, Jerome Martin S. Du, Hans Daniel Faith G. Ong, Mikee Janine T. Uy Ching, Erica Elice S. Uy, Joenel G. Galupino De La Salle University, Philippines
56	385-390	<b>Evaluating the Potential of Maize (Zea Mays) Cobs for Mercury Removal from Small-Scale Gold Mining Wastewater</b> Joan Jane J. Sanchez, Jonathan M. Yu, Dale R. Moran Caraga State University, Philippines
57	391-398	<b>Design, Fabrication, and Performance Evaluation of Sweet Potato (Ipomoea batatas L.) Flour Mill for Small-scale Applications</b> Nervine Dave C. Docdoc, Beverly S. Morales, Cindy May C. Belivestre Caraga State University, Philippines
58	399-405	<b>Modeling Carbon Storage and Sequestration in Taguibo Watershed, Butuan City, Philippines using GIS and InVEST Technology</b> Aljon E. Bocobo, Cristal Mae M. Salte, Maryellyneith B. Tagaro Caraga State University, Philippines
59	406-411	<b>Advances and Prospects of Microbial Fuel Cells</b> Yang Shenghao, Osama Eljamal Kyushu University, Japan
60	412-418	<b>Geopolymerization Potential of Gold Mill Tailings in Mindanao, Philippines</b> Ephraim Joy B. Beltran, Mary An M. Atamosa, Renan N. Bronio, Gerome L. Amper Caraga State University, Philippines
61	419-426	<b>Renewable Energy Resource Assessment for Agusan Del Norte, Caraga Region, Philippines</b> Cindy May C. Belivestre, Harold Panganoron Caraga State University, Philippines
62	427-433	<b>Evaluation of Guso (Kappaphycus alvarezii) Seaweeds as Edible Coating to Eggplant (Solanum melongena var. Calixto) Stored under Ambient Conditions</b> Jhiemea Y. Bautista, Mary Joy C. Lim, Neil Caesar M. Tado, Febie T. Paglinawan Caraga State University, Philippines
63	434-439	<b>Solar Tracking System for a Floating Solar Panel System (FPSP)</b> Rhea Mae A. Cañete, Alexander T. Demetillo, Lovely Mae Dagsa, Joshua A. Orillaneda, Alfred Dennis B. Balamad Caraga State University, Philippines
64	440-447	<b>Assessment of Household Flood Vulnerability in Panaytayon, RTR Using Multi-Criteria Decision Making and Geographic Information Systems (GIS) Techniques</b> Alma Rizza H. Delfin, Ana Maria A. Salazar, Eric Dave Doria, Jun Love E. Gesta Caraga Center for Geo-Informatics, Philippines
65	448-456	<b>Application of Aloe Vera Gel Edible Coating Combined with Rosehip Oil for Postharvest Quality of Sweet Pepper (Capsicum annum L. var. Emperor) under Ambient Condition</b> May Rose B. Osoteo, Arnel Fernandez, Marc Lowell Villote Caraga State University, Butuan City, Philippines
66	457-462	<b>Development of Ophthalmology Eye Examination Device Using 3D Printing Technology</b> Abdul Halim Abdullah, Firdaus Alimarizan, Nor Azimah Abd. Aziz, Fatin Hazwani, Shahrul Hisyam Marwan Universiti Teknologi MARA (UiTM), Malaysia
67	463-468	<b>Auto Tree Counting for Oil Palm Plantation Based on Uav/Drone Orthophoto</b> Mohd Khairul Bazli Bin Mohd Aziz, Eiffel Syafhamka Nadimen A/L Syamsul, Wan Mohd Rozaimi Bin Wan Mustafa Universiti Malaysia Pahang Al-Sultan Abdullah, Malaysia
68	469-474	<b>Strategy for Development of Infrastructure and Supporting Facilities in Tourism Villages : Study at Wewengkon Citorek</b> Ardiansyah, ST., MT, Dr. Muhammad Rijal, ST., MT, Wakyudi, S.P., M.Si Ahmad

		Dahlan Institute Of Technology And Business Indonesian
69	475-481	<b>Development of First Grade Seismic Microzonation Map for Surigao City, Surigao del Norte, Caraga, Philippines</b> Marc Lin F. Abonales, Robert A. Romero, Stephanie Mae S. Albores, Sicenio D. Abera, Jr., Erwin D. Mendoza Caraga State University, Philippines
70	482-487	<b>Determining the Optimum Moisture Content (OMC) and Maximum Dry Density (MDD) of Roller-Compacted Concrete: A Basis of Its Optimum Design Mix</b> Carmel S. Burlat, Marc Lin F. Abonales, Shelah Grace C. Hebra, Cristopher S. Butcon, Mark Crysler F. Valeros Caraga State University, Philippines
71	488-493	<b>Modeling the Current and Future Potential Distribution of (Xanthostemon Verdugonianus) in Caraga Region Using Species Distribution Modeling Technique</b> Danielle Krizzia G. Bacera, Arturo G. Cauba Jr. Caraga State University, Philippines
72	494-499	<b>Real-time IoT-based Motorcycle Accident Detection and Alert System</b> Elamae B. Sevandal, Myla Fe T. Menque, Lovely Mae Dagsa, Alfred Dennis B. Balamad, Edgardo Ricardo B. Sajonia Jr. Caraga State University, Philippines
73	500-505	<b>Metal Accumulation of Plants in a Nickel Laterite Mine and Their Phytoremediation and Phytomining Potential</b> Abigael L. Balbin, Ian Dominic F. Tabañag, Jundy D. Lozano University of San Carlos, Philippines
74	506-513	<b>Scan to BIM for Building Asset Management</b> Hafizah Ramli, Mustaffa Anjang Ahmad, Ahmad Sha'rainon Md Shaarani Universiti Tun Hussein Onn, Malaysia.
75	514-519	<b>Enhanced Campus Communication Hub Through Wi-Fi Optimization and Emergency Earthquake Notifier (ECHOER)</b> Cebenerio Janus M. Dispo III, Alfred Dennis B. Balamad, Ronieto N. Mendoza, Alexander T. Demetillo, Caraga State University, Philippines
76	520-524	<b>Synthesis of Silver Nanoparticles in Walnut Waste Extract by Pulsed Plasma Method</b> Altynai Abdirashitova, Kalipa Salieva, Adilet Zhakypbekov, Ruslan Adil Akai, Aydaikan Kasymakunova, Bakyt Borkoev, Emil Omurzak Kyrgyz-Turkish Manas University, Kyrgyzstan
77	525-531	<b>Evaluating Seismic Vulnerability and Enhancing Resilience of Road Infrastructure: A Comprehensive Bibliometric Analysis</b> Cris Angelo Fernandez, Joenel Galupino, Lessandro Estelito Garciano, Rainier Lawrence Valdez, Jomari Tan, Erica Elice Uy, Irene Olivia Ubay-Anongphouth De La Salle University, Philippines
78	532-537	<b>Determining the Correlation between Abaca (Musa textilis) Distribution Patterns and Bunchy Top Disease Prevalence in the Caraga Region through Spatial Point Pattern and Statistical Analysis</b> Hazel Anne F. Animo, Mitche R. Tajale, Arnaldo C. Gagula, Elizabeth P. Parac, Caraga State University, Philippines
79	538-544	<b>Study on Indoor Thermal Environment and Thermal Comfort in an Air-Conditioned Mosque during Prayer Times in the Tropical Climate of Malaysia</b> Andi Taufan, Sheikh Ahmad Zaki, Ng Wai Tuck, Hom Bahadur Rijal, Nor'Azizi Othman Universiti Teknologi Malaysia, Malaysia
80	545-551	<b>Integrated Framework for Analyzing Seismic Hazard, Exposure, and Vulnerability in Damage and Loss Assessment of Water Network System</b> Rainier Lawrence A. Valdez, Andres Winston C. Oreta De La Salle University, Philippines
81	552-556	<b>Spatio-Temporal Patterns Analysis of Road Accidents in Butuan City Using Geographic Information System (GIS)</b> Jayson V. Jamelo, Christian Joe F. Saldia, Eric Dave D. Doria, Arnaldo C. Gagula Caraga State University, Philippines

82	557-563	<b>Co-composting of Dried Sludge Types and Food Waste Using Compost Barrel</b> Marcelino N. Lunag Jr., Prendonn R. Ocon, Earl Jonas C. Wagan, Luis Alphonso C. Aunor, Marvin Clark O. Bartolome, Carl Bryan P. Pacol, Tyron Clemens B. Palitayan, John Cedrex C. Quimson, Lucky Jemard F. Quintay, John Michael M. Simon, Kristian Matthias A. Luquingan Saint Louis University, Philippines
83	564-570	<b>Biomechanical Evaluation of Three-Dimensional Printed Leg Orthosis for Ankle Fixation: Finite Element and Thermal Analysis</b> Zatul Faqihah Mohd Salaha, Siti Nursa'adah Jauhari Efendie, Muhammad Izzuddin Abd Samad, Muhammad Hanif Baharuddin, Abdul Halim Abdullah, Muhammad Hanif Ramlee Universiti Teknologi Malaysia, Malaysia.
84	571-576	<b>Mapping of Potential Sites of Bamboo Plantation in Agusan del Norte, Philippines using Species Distribution Modelling</b> Arturo G. Cauba Jr., Christian Dale Cunanan, Raymart B. Monteclaro, Caraga State University, Philippines
85	577-582	<b>Study of Passive Design in Architecture to Reduce Energy Consumption and Global Warming</b> Novalinda Panca Budi Development University, North Sumatra - Indonesian
86	583-589	<b>Development and Analysis of 3D-Printed Knee Orthosis for Post-Anterior Cruciate Ligament Injuries Rehabilitation</b> Siti Adawiyah Zulkefli, Nur Syamimi Ismail, Muhammad Izzuddin Abd Samad, Muhammad Hanif Baharuddin, Abdul Halim Abdullah, Muhammad Hanif Ramlee Universiti Teknologi Malaysia, Malaysia.
87	590-596	<b>A Novel, Inventive, and Automated Solar-Powered Pest Light Trapping Machine with a GSM-based Monitoring System Using Arduino Microcontrollers</b> Elaine Grace Q. Lariosa, Jetro M. Juntilla, Glenn V. Villafuerte, Isagani M. Roma, Jeffrey T. Delloso, Re-Ann Cristine O. Calimpusan Caraga State University, Philippines
88	597-601	<b>Concise Review of TADF: Basic Principles, Material Design, Prospective Applications, and the Role of ROMP in Polymer Synthesis</b> Mahmoud Z. Basyouni, Mohammed F. Radwan, Mohamed E. Abdu, Andrew M. Spring Kyushu University, Japan
89	602-608	<b>Evaluating Calibration Potential in River Hydraulic Modelling Based on Critical Slope: A Case Study of Sungai Pahang Basin</b> Mohd Aliff Mohd Anuar, Mohd Shalahuddin Mohd Adnan, Lim Foo Hoat, Veianthan Jayaramu, Lee Wei Koon, Mohamad Hafiz Hassan Universiti Tun Hussein Onn Malaysia, Malaysia
90	609-614	<b>Dynamic Coupling Studies of Cooperative Behavior and Synchronization on Complex Networks</b> Haoyu Jin, Jun Tanimoto Kyushu University, Japan.
91	615-620	<b>Essential Oils in Starch-Based Edible Coatings for Fruit Storage Applications: A Mini Review</b> Laras Putri Wigati, Fumina Tanaka, Fumihiko Tanaka Kyushu University, Japan
92	621-628	<b>A Comparative Study of Flame Structure, Heat Transfer, and Exhaust Emissions of a Coaxial Burner Fitted with Multiple Air and Fuel Injection Fingers</b> Neama Y. Ramadan, Moustafa A. GamalEldin, Ahmed A. Mahgoub, Ahmed M. Abdalnaim, Ahmed A. Adam, Ahmed A. Emara and Hany A. Moneib Helwan University, Egypt.
93	629-635	<b>Synergistic Paradigms: Developing R&amp;D and Extension Framework for Sustainable Agrifood Systems</b> Michelle V. Japitana, Rex G. Parro, Stephanie Mae S. Albores, Lorie Cris S. Asube Caraga State University, Philippines
94	636-641	<b>Scaling Up Chitin Extraction from Shrimp Shell Using Symbiotic Co-Lactic Acid Fermentation and Proteolytic Fungal Fermentation in Stirred Tank Bioreactor</b>

		Jariya Ruangwicha, Benjamas Cheirsilp, Wasana Suyotha Prince of Songkla University, Thailand
95	642-646	<b>Determination of Concentrations of Camellia Sinensis Oil on Preservation of Cool Stored Strawberry</b> Tran Thi Van, Fumina Tanaka, Fumihiko Tanaka Kyushu University, Japan
96	647-652	<b>Understanding Geomorphological Dynamic of the Pahang River Basin and Its Sub Basin by Assessing Hypsometric Analysis</b> Mohd Aliff Mohd Anuar, Mohd Shalahuddin Mohd Adnan, Mohamad Hafiz Hassan, Mohd Sofiyen Sulaiman Lee Wei Koon Universiti Tun Hussein Onn Malaysia, Malaysia.
97	653-658	<b>Effects of Different Proteases on Degree of Hydrolysis and Antioxidant Activity of Mung Bean Hydrolysates</b> Sabaitip Phimsen, Benjamas Cheirsilp, Aem Nuylert, Prince of Songkla University, Thailand
98	659-665	<b>Biomechanical Evaluation of 3D Printed Passive Transfemoral Leg Socket Compliance with ISO 10328: A Comparison of Two Different Designs</b> Nurin Tihani Nazemi, Anis Zulaikha Muhammad Shahril, Muhammad Izzudin Abd Samad, Jennifer Olsen, Kheng-Lim Goh, Sudarsan Swain, Abdul Halim Abdullah, Mohammad Ikhwan Jamaluddin, Muhammad Hanif Ramlee Universiti Teknologi Malaysia, Malaysia.
99	666-671	<b>Adaptive-XGBoost for Improved Long-Term Multi-Step Traffic Flow Prediction</b> Mas Omar, Fitri Yakub, Andika Aji Wijaya, Azizul Azizan, Shamsul Faisal Mohd Hussein, Niranjana Govindan Universiti Teknologi Malaysia, Malaysia
100	672-679	<b>Impact Assessment of the Government-installed Solar-Powered Irrigation Systems in Agusan del Sur</b> Art M. Dalman, Dazzelle Marie L. Jimena, Chivy M. Soliman, Aljon E. Bocobo Caraga State University, Philippines
101	680-684	<b>Design and Development of Coconut Fiber Sandwich Panel Ceilings</b> Rilya Rumbayan, Imran Musanif, MY Noorwahyu Budhyowati, Febriane Paulina Makalew, Beldy Tombeg Manado State Polytechnic, Indonesian
102	685-691	<b>Analysis of Obese Patients Using Machine Learning to Categorize Hidden Risk Factors in Explorative Assessment</b> R.Krishnamoorthy, Kazuaki Tanaka, R.Thiagarajan Chennai Institute of Technology, India
103	692-699	<b>Comparisons of Statistics for Wind Speeds Around an Isolated Building Determined by Wind-tunnel Experiment and Numerical Simulation</b> T. Tong, Y. Li, W. Wang, N. Ikegaya Kyushu University, Japan
104	700-706	<b>A Comparative Study of Biogas/Air Flames Characteristics for Different Bluff-Body Burner Configuration</b> Ahmed H. Elkholy, Eslam I. Mohamed, Ahmed A. Mahgoub, Ahmed M. Abdulnaim, Ahmed A. Adam Mohamed A. Elmously and Hany A. Moneib Helwan University, Egypt
105	707-716	<b>A Novel Capacitorless Low-Dropout Regular (LDO) Design for High-Performance System-on-Chip Applications Using 180nm CMOS Process</b> Christine Claire Baldo, Michelle Palen, Jeffrey T. Dellosa, Re-Ann Cristine O. Calimpusan Caraga State University, Philippines
106	717-724	<b>Advancements in the Synthetics and Applications of <math>\pi</math>-Conducting Poly (arylene vinylene) Materials</b> Mohamed E. Abdu, Mahmoud Z. Basyouni, Mohammed F. Radwan, Ahmed G. Taha, Peixin Xia, Andrew M. Spring Kyushu University, Japan
107	725-730	<b>Non-Premixed Cofiring of Two Fuel phases: Performance and Emissions Study for a New Air Staged Burner</b> Ahmed A. Adam, Ahmed M. Abdulnaim, Ahmed E. EL-Kholy, Mahmoud A. Shahein and Hany A. Moneib Kyushu University, Japan
108	731-739	<b>Review of GIS-based Approaches in Earthquake Disaster Management</b>

		Jomari Tan, Mary Joanne Aniñon De La Salle University, Philippines
109	740-746	<b>The Future of Successful Integration with Two-Dimensional Field-Effect Transistors: Materials, Opportunities, and Challenges</b> E. Y. Jung, H. Ago Kyushu University, Japan
110	747-753	<b>Effect of Rib Angle on Capillary Flow in Closed Hierarchical Microchannels</b> Gaurav Kumar, Gyoko Nagayama Kyushu Institute of Technology, Japan
111	754-759	<b>Index Crimes: A Web Geographic Information System Platform for Crime Mapping Frequency in Butuan City</b> Kieth M. Echevarre, Ronie Cris C. Gucela, John Rudmark L. Ebol, Arnaldo C. Gagula Caraga State University, Philippines
112	760-766	<b>Design and Analysis of Triple-Band SIW Antenna for K-Band and Ka-Band Applications</b> Md Mahabub Alam, Ahmad Afif Mohd Faudzi, Syamimi Mardiah Shaharum, Yasmin Abdul Wahab, Muhammad Hazarul Azmeer Ab Malek, Mohamad Shaiful Abdul Karim and Nurhafizah Abu Talip Yusof Universiti Malaysia Pahang Al-Sultan Abdullah, Malaysia
113	767-772	<b>Haemodynamics in Left Ventricular Remodelling using Cardiovascular Lumped-Parameter Model</b> Siti Munirah Muhammad Ali, Muhammad Fadhli Nadhil Nashron, Wan Naimah Wan Ab Naim, Mohd Jamil Mohamed Mokhtarudin, Wahbi El-Bouri Universiti Malaysia Pahang Al-Sultan Abdullah, Malaysia
114	773-778	<b>A Numerical Investigation of Power Extraction using Biomimetic Hydrofoils for a Full Passive Oscillating Hydrokinetic Turbine</b> Ramon III Gregorio, Cylvia Mae Gonzaga, Jonathan Maglasang Ateneo de Davao University, Philippines
115	779-785	<b>Producing Magnesium Hydroxide Coating from Seawater to Prevent Hydrogen Sulfide-induced Corrosion in Concrete</b> Janelle Patricia S. Moa, Bea Angela C. Gaw, John Louis O. Co, Kyle Anderson C. Co, Kenneth Jae T. Elevado, Cheryl Lyne C. Roxas De La Salle University, Philippines
116	786-791	<b>Design and Development of a Combined Cacao Bean Huller- Pulverizer Machine</b> John Cristian G. Badilla, Dominic Ivan Tulin, Art M. Dalman, May Rose B. Osoteo Caraga State University, Philippines
117	792-798	<b>Factorial Analysis on the Production of Biofertilizer with High Nitrogen Content Using Mushroom Waste</b> Amir Syarifudin Bin Baharudin, Norazwina Binti Zainol Universiti Malaysia Pahang Al-Sultan Abdullah, Malaysia
118	799-804	<b>Effect of Synthesis Method and Reaction Conditions on Ciprofloxacin Adsorption from Aqueous Solutions by MoS<sub>2</sub> Materials</b> Feng Xuening, Omar Falyouna, Toshihiko Mandai, Osama Eljamal Kyushu University, Japan
119	805-811	<b>Molecular Dynamics Study of Droplet Impinging/Freezing on Cold Surface</b> Shu Moromisato, Hsiu-Yang Tseng, Gyoko Nagayama Kyushu Institute of Technology, Japan
120	812-818	<b>Microcontroller-Driven Temperature Control for Superior Coffee Roasting</b> Wongsatorn Chinachan, Rachata Tobias Baur, Paleerat Wongchampa, Lerson Kirasamuthranon and Keerati Kirasamutranon Keerapat international school, Bangkok, Thailand
121	819-824	<b>Bacterial Cellulose Production by Pure Culture of Acetobacter Xylinum in Sweet Black Tea Medium</b> Pannita Jaroenjaturong, Benjamas Cheirsilp, Uschara Thumarat and Piyarat Boonsawang Prince of Songkla University, Thailand
122	825-830	<b>Numerical Study on Hydrogen Mixing for Different Scramjet Engine Combustion Chamber Configurations</b> Elsayed Abdelhameed, Toyota Technological Institute, Japan

123	831-837	<b>Assessing the Efficacy of Newly-Constructed Drainage Canals in Butuan City Proper, Philippines through Field Survey and Hydrologic Modelling Approach</b> Mark Louie T. Ajoc, Brian M. Seno, Arnaldo C. Gagula, Caraga State University, Philippines
124	838-844	<b>Assessment of Overheating Risk in School Classrooms at Hot-Humid Climate</b> Nor Sahidah Firman, Sheikh Ahmad Zaki, Ng Wai Tuck, Manoj Kumar Singh, Hom Bahadur Rijal Universiti Teknologi Malaysia, Malaysia
125	845-850	<b>Imbalanced Flood Forecast Dataset Resampling Using SMOTE-Tomek Link</b> Ainaa Hanis Zuhairi, Fitri Yakub, Mas Omar, Muhammad Sharifuddin, Khamarrul Azahari Razak, Amrul Faruq University Technology Malaysia, Indonesia
126	851-859	<b>Co-benefits Analysis of Solar Energy Plans in Austin, Texas</b> Katherine R. McCarroll, Alphonse Ngila Mulumba, Mohamed Saad Suliman, Hooman Farzaneh The University of Texas at Austin, United States
127	860-867	<b>The Effects of Flood-induced Lane Reduction on the Capacity of a Road Network</b> Lance Kenneth D. Mamuyac, Jon Robin D. Delos Reyes, Louisse Shaola L. Lumanglas, Eian Lanz C. Rebotiaco, Alexis M. Fillone De La Salle University – Manila, Philippines
128	868-873	<b>Morphometric Analysis of the Pahang River Basin and Its Sub Basin System at Pahang State, Peninsula Malaysia</b> Mohd Aliff Mohd Anuar, Mohd Shalahuddin Mohd Adnan, Mohamad Hafiz Hassan, mohd sofiyan sulaiman lee wei koon universiti teknologi mara malaysia, malaysia
129	874-881	<b>Performance Analysis of Reduced Switch Hybrid Cascaded Multilevel Inverter with PSO-based PI Controller during Load Variations</b> M.Izzat Nordin, Leong Ying Foo, M.H.A. Ab Malek, Suliana Ab Ghani, N.Huda Ramlan Universiti Malaysia Pahang Al-Sultan Abdullah, Malaysia.
130	882-889	<b>Optimizing Building Envelope Features: Towards Climate Responsive Energy Efficient Buildings in Hot Climates</b> Nourhan M. Waly, Hamdy Hassan, Ryo Murata, David Sailor, Hatem Mahmoud Egypt-Japan University of Science and Technology E-JUST, Egypt
131	890-896	<b>Investigation of Coherent Structures in Turbulent Boundary Layer Above Urban Building Array Using Proper Orthogonal Decomposition</b> Haitham Osman, Naoki Ikegaya Kyushu University, Japan
132	897-904	<b>The Potential of ChatGPT in Assisting Healthcare Professionals with Personalized Time-Scheduled Care Plans: Opportunities and Challenges</b> Sherif Nesnawy, Mohamed Gamal Noaman Malek, Mohamed F Radwan, Fatma Mostafa Mahrous, Heba Abdel-Azem Mostafa Faculty of Nursing-Minia University, Egypt
133	905-909	<b>Parametric Behaviors of Sugar Palm (Arenga Pinnata Wumbb Merr.) Sap Crystallization Process</b> Richelle Mae D. Mendoza-Olpot Cavite State University, Philippines
134	910-915	<b>Land-cover Characterization and Water Quality Assessment of the Sambunotan Watershed, Dinagat Islands in Support of the Development of the Watershed Management Plan</b> Meriam Makinano-Santillan, Michelle V. Japitana, Arnaldo C. Gagula, Stephanie Mae S. Albores, Jahn Rey C. Bautista, Marjunelyn R. Llesis, Jojene R. Santillan Caraga State University, Philippines
135	916-922	<b>Spatio-Temporal Prediction of Leptospirosis in Kuantan Using Hydro-meteorological Variables and Random Forest Machine Learning</b> Veianthan Jayaramu, Zed Zulkafli, Fariq Rahmat Universiti Putra Malaysia, Malaysia.
136	923-929	<b>Using Recycled Materials as an Approach to Energy-Efficient Building: A Residential Building in North Egypt as a Case Study</b> Hatem Mahmoud University of Science and Technology, Egypt.
137	930-937	<b>Retrofitting Electric Power Steering to Allow Steer-by-Wire Steering in Electric Buggies</b>

		Ahmad Akmal Abd Manan, Amalina Amir, Amir Radzi Abdul Ghani, Nor Afifah Yahaya, Muhammad Aiman Syafiq Abdul Rahman University Teknologi MARA (UiTM), Malaysia
138	938-942	<b>Modeling of Sediment Export and Retention Capacity of Land covers in Taguibo Watershed, Butuan City using InVEST-SDR Model</b> Jaye Bee B. Lopena, Pearly Jane A. Libot, Aljon E. Bocobo Caraga State University, Philippines
139	943-949	<b>Promoting the Allowable Stress Method for the Design of Glass Members and Frameless Structures</b> Saddam Hussain, Pei Shan Chen, Chiara Bedon, Hassan Javed, Kyushu Institute of Technology, Japan
140	950-955	<b>Estimation of Runoff Retention Capacity of Agricultural Areas in San Francisco, Agusan del Sur, Caraga, Philippines</b> Sajonia, Anamarie P., Cellan, Johnry S. Luceñara, Danese Crystel P. Caraga State University, Philippines
141	956-963	<b>Combined Hydrological and Geologic Assessment for Sustainable Management of the Sambunotan Watershed, Dinagat Islands, Philippines</b> Meriam Makinano - Santillan, Arnaldo C. Gagula, Stephanie Mae Salcedo – Albores, Jun Love E. Gesta, Nichole Anthony Pacle, Riva Karyl P. Varela, Jojene R. Santillan Caraga Center for Geo-Informatics, Philippines
142	964-970	<b>Investigating the Mechanical Performance of Concrete by Incorporating Poultry Slaughterhouse Wastewater Treatment Plant Sludge as a Partial Cement Replacement</b> Nichole Vince S. Jalipa, Rynne Spencer Y. Lim, Rafael Conrado F. Matias, Nathalie Belle F. Villademoso Daniel Nichol R. Valerio, Maria Klarissa M. Daly, and Kenneth Jae T. Elevado De La Salle University, Philippines
143	971-976	<b>Evaluation of Handling and Storage Characteristics of an Intermediate Granulated Food Ingredient Using a Fabricated Screw Extruder</b> Lynnel C. Olpot, Dr. Jewel A. Capunitan Philippine Council for Industry, Energy and Emerging Technology Research and Development, Philippines
144	977-985	<b>Promoting Accountability in Green Technology and Sustainability: Insights from Perpustakaan Tun Abdul Razak (PTAR), Universiti Teknologi MARA in Community Welfare through Islamic Principles</b> Saidatul Akmar Ismail, Zalifah Awang Zakaria, Azizi Jantan Universiti Teknologi MARA, Malaysia
145	986-991	<b>Recent Progress in Fabrication of Eco-membranes for Membrane Distillation: A Mini-Review</b> Mostafa M. Sayed, Hamouda M. Mousa, Ahmed H. El-Shazly, Abdelrahman Zkria, Tsuyoshi Yoshitak and Marwa ElKady Egypt-Japan University of Science and Technology, Alexandria, Egypt
146	992-997	<b>Investigation of Rainwater Harvesting Quality with the Application of the First Flush System</b> Nur Atiqah Syarifah, Salahuddin Adnan, Muhammad Firdaus, Muhammad Amin Aszlimin, Imroni Arif University Tun Hussein Onn Malaysia, Malaysia
147	998-1004	<b>Classification of Spine Abnormalities using Deep Learning</b> Muhammad Shahrul Zaim bin Ahmad, Nor Azlina Ab. Aziz, Lim Heng Siong Multimedia University, Malaysia
148	1005-1011	<b>A Concise Review of Nanocomposites; Function in Organic Reactions to Synthesize Various Organic Nuclei</b> Doaa A. Elsayed, A Abd-ElSattar, Mohamed E. Abdu, Wesam S. Shehab Kyushu University, Japan.
149	1012-1020	<b>Study On the Design and Materials for a Temporary Flood Barrier as A Flood Control Initiative in Mitigating Residential Areas</b> Muhamad Firdaus Zanolin, Mohd Shalahuddin Adnan Muhammad Amin Adzlimin Amran, Malaysia
150	1021-1028	<b>Land Cover Mapping Using Automated Machine Learning with Landsat Data</b> Jojene R. Santillan, Meriam Makinano-Santillan Leibniz University Germany.

151	1029-1036	<b>Feasibility Study of Dam Development: Sustainable Flood Mitigation Strategies</b> Rahmah Dara Lufira, Suwanto Marsudi, Ussy Andawayanti, Evi Nur Cahya, Naila Zahro, Arbi Surya Brawijaya University, Indonesia
152	1037-1041	<b>A Preliminary Evaluation on the Development of Sandwich Panels for House Walls Using Basic Materials of Coconut Fiber as the Outer Skin Layer and Multiplex as the Core</b> Rilya Rumbayan, Imran Musanif, MY Noorwahyu Budhyowati, Febriane Paulina Makalew Manado State Polytechnic, Indonesian
153	1042-1049	<b>River Monitoring System for Headwater Phenomena Using Long Range (LoRa) Communication</b> Ahmad Aiman Bin, Abd Muttalib, Herdawatie Abdul Kadir, Mohd Adib, Mohammad Razi, Khalid Isa, Radzi Univeristi Tun Hussein Onn Malayssia, Malaysia
154	1050-1057	<b>Eco-Innovative Waste-Derived Carbonaceous Nanocomposites: A Mini Review for Water Treatment</b> Mohd Faizul Idham, Omar Falyouna, Ibrahim Maamoun, Osama Eljamal Universiti Teknologi MARA, Malaysia
155	1058-1064	<b>Investigation of Flood Inundation under Climate Change and Landuse Change for the Small Urban Catchment</b> Mohd Shalahuddin Adnan, Mazni Sharif, Mohd Noh Sabar, Rubiatun Adawiah Ali, Muhammad Nda, Agung W. Biantoro, Mohd Aliff Anuar Universiti Tun Hussein Onn Malaysia, Malaysia
156	1065-1070	<b>Green Coffee Bean Quality Inspection Using Computer Vision Systems</b> Jameel John M. Reales, Ronieto N. Mendoza, Von Romer D. Labas Caraga State University, Philippines
157	1071-1077	<b>Comparative Analysis of Commercial and Synthesized Molybdenum Disulfide for Progesterone Removal in Water Treatment</b> Sam Bessai, Omar Falyouna, Toshihiko Mandai, UPM Ashik, Osama Eljamal Kyushu University, Japan
158	1078-1083	<b>The Effect of Aging nZVI on Removal of Nitrate</b> Masahiro Shiotsuki, Osama Eljamal, Kyushu University, Japan
159	1084-1090	<b>Performance Evaluation of Transformer and Informer-Based Models for Indoor Absolute Humidity Prediction using Outdoor Absolute Humidity</b> Muhamad Sharifuddin Abd Rahim, Fitri Yakub, Sheikh Ahmad Zaki Shaikh Salim, Inge Dhamanti, Muljono, G. Niranjana Universiti Teknologi Malaysia, Malaysia
160	1091-1099	<b>Numerical Investigation of the Properties of Japanese Historical Brick Masonry Structures</b> Chhabi Mishra, Kentaro Yamaguchi, Kyushu University, Japan
161	1100-1106	<b>Methodological Framework for Density Estimation: Insights from Muography Laboratory Measurements and Simulations Experiments</b> Ahmed Eleslambouly, Hamid Basiri, Mohammed Ali, Jun Matsushima, Masashi Kodama, Toshiyuki Yokota, Fateh Bouchalaa Khalifa University of Science and Technology
162	1107-1113	<b>Effect of Some Experimental Conditions of the Pulsed Plasma in Liquid on the Formation of Nanostructures</b> Adilet Zakypbekov, Wei Xu, Takuro Niidome, Alimzhan Kalbekov Emil Omurzak Kyrgyz-Turkish Manas University, Kyrgyz Republic
163	1114-1121	<b>Unlocking the Potential of Poly(norbornene-dicarboximides): Synthesis, Applications, and Future Prospects</b> Mohammed F. Radwan, Mahmoud Z. Basyouni, Mohamed E. Abdu, Ahmed G. Taha, Peixin Xia, Andrew M. Spring Kyushu University, Japan
164	1122-1128	<b>Further Investigation of the Power Generation and Pollution Removal Capacity of Microbial Fuel Cells for the Treatment of High Nickel Content Wastewater</b> Qilu Chen, Osama Eljamal, Elizabeth Heidrich, Sam Bessai, Binsheng Wu Kyushu University Japan

165	1129-1134	<b>Influence of Cobalt Doping on the Thermoelectric Properties of the Magnéli Phase <math>W_{18}O_{49}</math></b> Mostafa M. Elkady, Michitaka Ohtaki, Koichiro Suekuni Kyushu University, Japan
166	1135-1140	<b>Enhancing Thermal Comfort for Motor Biker via PV and Peltier Module Mounted Helmet</b> Anamul Haque Arif, Md. Imtiaz Hyder, Adwayatananda Das, Bidyut Baran Saha, Sampad Ghosh Chittagong University of Engineering & Technology (CUET), Bangladesh
167	1141-1145	<b>The Intense Geomagnetic Storm on March 24, 2023, Associated with Halo CMEs and Solar Flares</b> S. N. A. Syed Zafar, R. Umar, N. H. Sabri, M. H. Jusoh, A. Yoshikawa, S. Abe, T. Uozumi Universiti Sultan Zainal Abidin, Malaysia
168	1146-1151	<b>Isolation and Identification of Lactic Acid Bacteria from Naturally Fermented Goat Milk as Potential Goat Milk Yogurt Starter</b> Asma Billateh and Benjamas Cheirsilp Prince of Songkla University, Thailand.
169	1152-1157	<b>Field Measurement on Skin Temperature and Thermal Comfort of the Human Body with Various Airspeed Directions</b> Fakhrizal Akbar Ilmiawan, Sheikh Ahmad Zaki, Manoj Kumar Singh, Hom Bahadur Rijal Universiti Teknologi Malaysia, Malaysia
170	1158-1163	<b>Automated Monitoring System for Detection of Solar Radio Bursts for CALLISTO Spectrums</b> Nur Zulaikha Mohd Afandi, Roslan Umar, Nor Hazmin Sabri, Suhailan Safei, Christian Monstein Universiti Sultan Zainal Abidin ,Malaysia
171	1164-1173	<b>Enhancing the Thermoelectric Performance of Bulk Zinc Oxide via Single and Multiple Doping Strategies</b> Ibrahim A. ATITO, Michitaka OHTAKI Kyushu University, Japan.
172	1174-1183	<b>The Implementation of Hybrid Observation Technique of Hilal (HOTOH)</b> A. L. A. M. Nasir, R. Umar, W. N. J. W. Yussof, N. Ahmad, A. N. Zulkeflee, N. H. Sabri, A. H. Kamarulzaman, N. A. Mahiddin Universiti Sultan Zainal Abidin (UniSZA), Malaysia
173	1184-1191	<b>The Use of Geospatial Techniques to Estimate Rice Production as a Measure for Waste Analysis: A Review</b> Lorie Cris S. Asube, Roland E. Otadoy, Caraga State University, Philippines
174	1192-1197	<b>pH Dependent Hexavalent Chromium Adsorption Experiments by Biochar Derived by Rice Husk</b> Binsheng Wu, Qilu Chen, Osama Eljamal Kyushu University, Japan
175	1198-1204	<b>Investigating the Impact of Lithology and Lineament Structures to the Drainage Morphometry of Carrascal Watershed, Surigao Del Sur, Mindanao, Philippines Using Correlation and Principal Component Analysis</b> Kernel P. Arreza, Jenner E. Tidoy, Stephanie Mae Salcedo – Albores, Patrick Sam M. Buenavista Nichole Anthony Pacle Caraga State University, Philippines
176	1205-1211	<b>Multi-method Geophysical Observations in Governing Sustainable Development of a Volcano-Hosted Geothermal Area in Cangar, Indonesia</b> Sukir Maryanto, Masdukhan A. Widyaminudin, Daeng A. Suaidi, Cholisina A. Perwita, Sri D. Wuryani, Rendi P. Habsari, Vanisa Syahra, Shuji Abe, Akimasa Yoshikawa, Emad M.H. Takla, Justinus A. Satrio Brawijaya University, Indonesia
177	1212-1218	<b>Assessing the Effects of Coffee Husk Ash (CHA) and Eggshell Powder (ESP) as Partial Replacements for Cement and Spent Coffee Grounds (SCG) as Partial Replacement for Sand on the Compressive Strength of Concrete</b> Katrina O. Mercado, Joshua Ivan C. Cabiltes, Carl Francis M. Manese, Denise Shaynn C. Ramos, Bernard A. Lejano De La Salle University – Manila, Philippines
178	1219-1225	<b>Design, Fabrication, and Performance Evaluation of a Small-Scale Integrated Saba Banana Flour Mill</b> Joan Jane J. Sanchez, Rachel Dawn L. Acero, Vynce Gale F. Jabian Caraga State University, Philippines

179	1226-1231	<b>Nanopixel Waveguide Polarization Rotator Towards Integrated CRDS Breath Sensor for Self-Lasing Suspension</b> Sara Bruhier, Haisong Jiang, Kiichi Hamamoto Kyushu University, Japan
180	1232-1238	<b>Unveiling the Thermal Comfort Dynamics of Asymmetrical Buildings Configurations in Malaysia's Public School Courtyard Design</b> Muhammad Arif Harun, Sheikh Ahmad Zaki, Ng Wai Tuck, Samsol Faizal Anis, Elmira Jamei, Hom Bahadur Rijal Universiti Teknologi Malaysia, Malaysia
181	1239-1245	<b>Experimental Investigation of a Small-scale Hybrid Wind-Solar Renewable Energy Systems</b> Raja Ejy Raja Akhmar, MR Saad, Baizura Bohari Universiti Pertahanan Nasional, Malaysia
182	1246-1254	<b>Economic Contributions and Green Job Implications of Japan's Energy Transition: An Integrated Assessment of Decarbonization Scenarios in Kyushu Region</b> Alphonse Ngila Mulumba, Farzaneh Hooman Kyushu University, Japan
183	1255-1262	<b>Assessing CO, NO<sub>2</sub>, And SO<sub>2</sub> Levels and Urban Heat Island Dynamics in the Caraga Region Through Remote Sensing</b> Kim Lyra D. Mateo, Nathaniel G. Radaza, Jun Love E. Gesta Caraga State University, Philippines
184	1263-1268	<b>A Development of a Dielectric Composite Substrate Based on Barium Titanate-Epoxy Resin for a 5 GHz Microstrip Antenna</b> Nur Sofia Idayu Didik Aprianto, Nurul Izzah Izzaty Mohd Nadzri, Nurfarhana Mustafa, Muhammad Hazarul Azmeer Ab Malek, Ahmad Afif Mohd Faudzi, and Mohamad Shaiful Abdul Karim, Universiti Malaysia Pahang Al-Sultan Abdullah, Malaysia.
185	1269-1276	<b>Sub-catchment Prioritization in a Tropical Watershed for Stream Health Improvement and Low Impact Development Application Using Multi-Criteria Decision Analysis: A Case in Palo, Leyte, Philippines</b> Sergi Garbanzos, Gessel Mae Abordo, Arvel Art Alde, Janecee Gavan, Jaren Kirby Larraga, Alyssandra Janine Baylon, Kent San Pedro, Jayson Cayetano, and Marla Maniquiz-Redillas De La Salle University, Philippines
186	1277-1284	<b>Characterization of Pyrolytic Oil from Different Blending Ratio of HDPE and PET Plastic Waste Through Gasification Pyrolysis Process</b> Safwan Hafizi Masakhoh, Zakiuddin Januri, Norazah Abd. Rahman Institut Kemahiran MARA Bintulu, Malaysia
187	1285-1290	<b>Unmanned Aerial Vehicle (UAV) Images for Coastal Erosion Monitoring</b> M R M Adib, M.A. Zaidi, I B Isha, E H H Al-Qadami, S M H Shah Universiti Tun Hussein Onn Malaysia, Malaysia
188	1291-1297	<b>A Study of the Modified Microscopic Model Incorporating Weather Effect and Cooperative Behavior</b> Md. Zakir Hosen, Md. Anowar Hossain, Jun Tanimoto Kyushu University, Japan
189	1298-1304	<b>Coconut Coir Fiber and Coconut Shell as Substitute to Fine Aggregates in Concrete Mortar Cubes</b> Maria Emilia P. Sevilla, Miller DL. Cutora, Julia Aliana Mari S. Cortez, Dominic Ross D. David, Nicole Ashley D. Santos De La Salle University, Philippines