





# **DAY 1 | 05 December 2023**

### **ORAL PROGRAMME**

ORAL PROGRAININE			
09:00 AM	Cpening Session  Keynote 1  Arno Fruehwald, University of Hamburg, Germany Mohamad Midani, VALORIZEN, Egypt		
09:30 AM			
	Palm Biomass for Multiple Use – Strong Player in Sustainable Economic, Social and Ecological Development		
10:15 AM	Discussion Panel 1		
	Industrial Conversion Applications of Palm and Date Residues		
	Moderator: <b>Abdulrahaman Alsoqeer</b> , National Research and Development Center for Sustainable Agriculture (Estidamah), Saudi Arabia		
	Panelists:  Mohammed Refdan Alhajhoj, King Faisal University, College of Agricultural Sciences, Saudi Arabia  Nourah AlFarris, Princess Norah bint Abdulrahman University, Saudi Arabia  Adil Eltayeb Abdelnour, National Research and Development Center for Sustainable Agriculture (Estidamah), Saudi Arabia  Basheer A. Alshammari, King Abdul Aziz City for Science and Technology, Saudi Arabia  Ahmed Sabra, Ajaweed Co, Saudi Arabia  Ibrahim Hassan Al. Shahi Hassan, Ibrahim Dates Factory, Saudi Arabia		
44.00.411			

11:30 AM	Coffee Break/ Poster Session			
	Room A Session A.1   Arno Fruehwald	Room B Session B.1   Basim Abu-Jdayil	Room C Session C.1   Maher M. Alrashed	
12:00 PM	INVITED SPEAKER	ID 019 Technical Report and Feasibility Study of Particleboard Production from Date Palm Wastes in Saudi Arabia	ID 143 Potential Uses of Date Palm Residues as Organic Amendments to Improve Crop Growth and Arid Soil Properties	
	Up-Scaling Production of Marine Grade Equivalent	Adah Alfayez, Saudi Arabia	Khaled Alotaibi, Saudi Arabia	
12:15 PM	(MGE) Plywood from Oil Palm Trunk  Paaridah Md Tahir, Malaysia	ID 194 Mechanical Dewatering of Oil Palm Lumber (Elaeis Guineensis Jacq.) to Reduce Costs and Improve Quality	ID 013 Enhancement of Green Economy and Sustainability Via Valorization of Date Palm Wastes Using Bulk and Nano Size Biochar as Soil Additives	
		Katja Fruehwald-Koenig, Germany	Mohamed Badawi, United Arab Emirates	
12:30 PM	ID 020 Superior Fracture-Seal Material Using Crushed Date Palm Seeds for Oil and Gas Well Drilling	ID 111 An Insight of Oil Palm Trunk Fiber Utilization for Composite Panels, Bioenergy, and Functional Textile	ID 053 Date Palm Waste is a Good Local Substrate for Vegetable Crops Grown in Soilless Culture	
	Operations  Musaed AlAwad, Saudi Arabia	Arif Nuryawan, Indonesia	Mohamed Ewis, Saudi Arabia	
12:45 PM	ID 087 A New Optimized Green Composite Based on Polylactic Acid Mixed with Date Palm Waste for Biodegradable Plastic Cutlery  Noran Mousa, United Arab Emirates	ID 106 Surface Modification Routs for Date Palm Fibers Towards Improved Interfacial Crosslinking Khalid Alzebdeh, Oman	ID 065 Solar Driven Interfacial Evaporation System Using Date Palm Biochar and Biopolymeric Nanofiberous Membranes  Irfan Farooq, Saudi Arabia	
01:00 PM	ID 105 Recovery of Cellulose Fibers from Date Palm Bunch for Pulp and Paper Making Applied in Active Food Packaging	ID 085 Utilization of Date Palm Waste in Green Composites: Thermal, Physical and Mechanical Properties	ID 185 Optimization of Pyrolysis for Plam Waste Biochar as a Cement Replacement using Response Surface Methodology	
	Raji Marya, Morocco	Basim Abu-Jdayil, United Arab Emirates	Aan Aman, Malaysia	
01:15 PM	ID 131 Preparation and Characterization of Cellulose Fiber Obtained from Date Palm Leaves: Papermaking Application	ID 100 Effect of Aging on Properties of Nitrile Rubber Reinforced with Date Palm Fibers	ID 132 Date Seed-Derived Activated Carbon: A Comparative Study for Heavy Metal Removal in Aqueous solution	
	Maha Sobhy, Egypt	Noor Alghamdi, Saudi Arabia	Mohammad Rahman, Saudi Arabia	
01:30 PM		Lunch/ Poster Session		
03:00 PM				
		Palm Tree Residues: Raw Material of Tomorrow		
03:45 PM	Plenary 1 Hom Dhakal, University of Portsmouth, United Kingdom			

04:15 PM	Coffee Break		
	Room A Session A.2   Basheer Alshammari	Room B Session B.2   Ghedeir Alshammari	Room C Session C.2   Saleh Al-Ghamdi
04:30 PM	ID 205 Efficient Liquefaction Of Lignin In Methanol Using Zro2 Electrospun Nanofibrous Catalyst  Mohammad Ali, Saudi Arabia	ID 028 Date Palm Fruit Seed (Phoenix Dactylifera L.) Novel Findings and Future Directions for Food and Drug Discovery Soad Al Jaouni, Saudi Arabia	ID 138 Sustainable Greywater Management in Riyadh City Mosques: Unleashing the Power of Palm Residue for Eco-Friendly Solutions Raouf Hassan, Saudi Arabia
04:45 PM	ID 061 Renewable and Sustainable Eco–Composites Obtained from Biomass Wastes for Industrial Application: Challenges and Innovations Hamid Essabir, Morocco	ID 207 Filling the Gap in the Pharma Industry Supply Chain by Producing non-API Pharmacy Ingredients from Palm Tree Waste  Mohamed F AlAjmi, Saudi Arabia	ID 142 Synthesis and Characterization of Carboxymethylcellulose (CMC) Derived from Date Palm Fronds  Abdulrahman Alzubaidi, Saudi Arabia
05:00 PM	ID 174 Valorization of Phoenix dactylifera Biomass by Manufacturing Nanostructured Materials  Ali A Alshatwi, Saudi Arabia	ID 171 Effect of Date's Seed (Phoenix Dactylifera L.) Poly Phenols on Human Breast Cancer Cells Ghedeir Alshammari, Saudi Arabia	ID 126 Energetics and Kinetics of Thermo-Oxidative Degradation of the Palm Tree Trunks  Fahad AlMubaddel, Saudi Arabia
05:15 PM	ID 155 Implementation of a Biotechnological Concept for Valorization of Tunisian Date Wastes (Phoenix Dactylifera L.)  Issam Smaali, Tunisia	ID 166 Date Pollen Grains, Ginseng, and Tribulus Extracts Supplementation Improves Sexual State, Testes Redox Status, and Testicular Histology in Nile Tilapia Males  Abdallah Mansour, Saudi Arabia	
05:30 PM		Closing	

Performance Targets & Ways to Achieve Industrial Applications of Date Palm Fibre Reinforced Sustainable Bio-Composites: Opportunities, Challenges & Future Perspectives









Scientific Partner



Scientific Partner



Community Partner



Community Partner



**Cultural Partner** 



Volunteering Students Team



09:00 AM

09:45 AM







### **DAY 2 | 06 December 2023**

Keynote 3	
Hamed El-Mously, Ain Shams University, Egypt	

Date Palm Byproducts: A Springboard for Circular Bio Economy

**Keynote 4** 

Abou El-Kacem Qaiss, Moroccan Foundation for Advanced Science, Innovation and Research (MAScIR), Morocco

Recent Advances on Bio-Thermoplastics Based Date Palm Fibers

10:30 AM **Discussion Panel 2** 

The Role of Government Agencies in Integrating and Empowering the Industrial Sector of Palms, Dates and their Derivative Products

Moderator:

Dr. Abdullah Khalifa M Almubarak, Director of Food Processing Sector – National Industrial Development Center, Saudi Arabia

#### Panelists:

Mosleh Fayez Alzobidi, Ministry of Industry and Mineral Resources, Saudi Arabia Khalid Fahad Alkhalid, Local Content and Government Procurement Authority, Saudi Arabia Hassan Saleh Abalkhail, Saudi Food and Drug Authority, Saudi Arabia Nasser Albishi, The National Centre for Palms & Dates, Saudi Arabia

11:30 AM		Coffee Break/ Poster Session	
	Room A Session A.3   Mohanad El-Harbawi	Room B Session B.3   Abou El-Kacem Qaiss	Room C Session C.3   Hassan Ali-Dinar
12:00 PM	INVITED SPEAKER  Date Palm Derived Biochar Amendments to Mitigate Water Deficit Effects in Greenhouse Grown Cucumbers  Muhammad Munir, Saudi Arabia	ID 051 Production of Insulation Panels from the Petiole of Date Palm as Byproducts  Abdelouahed Kriker, Algeria  ID 039 Evaluation of Fungal Decay and Biodegradation of Thermoplastic Composites Reinforced with Date Palm Fibre  Said Awad, Egypt	INVITED SPEAKER  Production of Nano cellulose and Nano-Composites from Date Palm Biomass for Eco-Friendly and Sustainable Greener Future  Hassan Ali-Dinar, Saudi Arabia
12:30 PM	ID 066 Microwave-Assisted Production of Hydrochar by Hydrothermal Carbonization of Palm Date Biomass and its Application to the Removal of Dyes from Wastewater  Saeed Alhawtali, Saudi Arabia	ID 041 Improvement of Cement Thermal Insulation with Natural Palm Polymeric Fiber  Zaid Alhulaybi, Saudi Arabia	ID 063 Biological Potential of Pits and Vinegar From of Three Varieties of Algerian Phoenix Dactylifera L.  Zahia Kabouche, Algeria
12:45 PM	ID 095 The Use of Biochar to Improve the Hydro- Physical Properties of Sandy Soils in Arid Regions.  Abdulrasoul Al-Omran, Saudi Arabia	ID 119 Chemical and Thermal Properties of a New Insulating Material Based on Portland Cement Reinforced with Date Palm Fibers  Nadir Bellel, Algeria	ID 024 Unlocking the Potential of Date Fruit Pomace: Lactic Acid fermentation and Adsorbent Material Valorization  Sabeera Haris, United Arab Emirates
01:00 PM	ID 102 Date Palm Waste Biochar for Sustainable CO2 Capture. Performance and SWOT Analysis  Mukarram Zubair, Saudi Arabia	ID 128 Characterization and Behavior Simulation of Extruded Clay Bricks with Light Weight Date Palm Fibers  Mohamed Bentchikou, Algeria	ID 107 Natural Sweeteners from Local Dates – Practical Applications for Calculating Nutrients and Calories  Muneera Al-Mssallem, Saudi Arabia
01:15 PM	ID 192 Development of PCL/date palm fibre biocomposites for sustainable packaging applications: effects of dry blending process on bio-composites' mechanical and thermal performances  Hom Dhakal, United Kingdom		ID 208 TiO2 Activated Carbon Photocatalyst Prepared using Date Pits for the Degradation of Methane and Phenol  Waheed A. Al-Masry, Saudi Arabia
01:30 PM		Lunch/ Poster Session	



























# **DAY 3 | 07 December 2023**

09:00 AM	Keynote 5
	Naceur Belgacem, Grenoble INP-Pagora Engineering School, France
	Cellulose as Substrate for Active Surfaces: Theory and Applications
09:45 AM	
	Keynote 6  Nashi Khalid Alqahtani, King Faisal University, Saudi Arabia
	Date Palm Waste Innovative Products for Sustainable Environment
10:30 AM	Discussion Panel 3
	Estimations of Local and Global Date Palm Byproducts
	Moderator:
	Abdulrahman S. Al-Habib, Executive Director of The International Council for Dates
	Panelists:
	Thaer Yasin, Food and Agriculture Organization (FAO), Egypt
	Fuaad Mansur, Industrial Date Palm Waste Conversion Expert, Iraq
	Mustapha Abdelaoul, Palm Waste Valorization Project Manager, Morocco  Adah Alfayez, The Saudi investment recycling company (SIRC), Saudi Arabia
	Anwar Haddad, Jordanian Dates Association, Jordan
11:30 AM	Coffee Break/ Poster Session

11:30 AM	Coffee Break/ Poster Session			
	<b>Room A</b> Session A.4   Mohamed Ali	Room B Session B.4   Naceur Belgacem	Room C Session C.4   Nashi Khalid Alqahtani	
12:00 PM	INVITED SPEAKER	ID 201 Significance of Natural Dyes Extracted from Date Palm Fiber Fibrillium and Assessment of Dyeability on Cellulosic Fiber via Statistical Modeling	<b>ID 089</b> Utilizing Date Pits in Microencapsulation: Effect of Different Variations on Probiotic Survivability Under in-Vitro Digestion	
	New Novel Thermal Insulation and Sound-Absorbing Materials Developed from the Surface Fiber and	Ramzi Khiari, Tunisia	Asmaa AlHamayda, United Arab Emirates	
12:15 PM	Leaves of Palm Trees and their Hybrid with other Materials  Mohamed Ali, Saudi Arabia	ID 170 Mechanical Properties of Nano Date Palm versus Nano Titanium Dioxide Particles Reinforced Composites: Experimental Characterization  Khalid Alzebdeh, Oman	ID 184 A Look at Palm and Date Losses and Opportunities for Sustainable Investment Abdullah Alhamdan, Saudi Arabia	
12:30 PM	ID 059 Cellulose Aerogels Made from Date Palm Wood for Heat Insulation in Construction	ID 083 Design, Processing, Testing and Characterizing for Orthodontics of Palm-fibers based Bionanocomposite	ID 092 Selective Fermentation of Wasted Saudi Dates' Syrups into Fructose and Bioethanol or Single Cell Protein	
	Hyder Al Abdallah, United Arab Emirates	Refat El-Sheikhy, Saudi Arabia	Mohamed Gaily, Saudi Arabia	
12:45 PM	ID 157 Oil Palm Trunk and Fiber Utilization – Flow of Material, Nutrients and Carbon  Arno Fruehwald, Germany	ID 034 Utilization of Graphene Oxide Derived from Date Pits for Adsorption Mechanism of Bromopyrogallol Red (BPR) Dye  Nasser Awwad, Saudi Arabia	ID 172 Identification of Secondary Metabolites in Ajwa Date Seed and Optimized Condition of Enzymes inhibition Using Response Surface Methodology and Artificial Neuronal Network Models  Fanar Hamad Alshammari, Korea	
01:00 PM	ID 191 Cross-Laminated Timber (CLT) Made from Oil Palm Wood (Elaeis guineensis Jacq.)	ID 117 Electricity Production Potential Using Date Palm Biomass	ID 145 A Green Surfactant from Date Seeds for Different Oil Field Applications	
	Katja Fruehwald-Koenig, Germany	Jamel Orfi, Saudi Arabia	Taha Moawad, Saudi Arabia	
01:15 PM	ID 029 Presentation of The Book (Date Palms Byproducts. Their Types and Economic Importance)  Ramzy Aboaiana, Saudi Arabia	ID 067 Optimization of Process Conditions for the Synthesis of High Efficacy Activated Carbon from Palm Leaflet Wastes for CO <sub>2</sub> Capture  Ebrahim Al-Ghurabi, Saudi Arabia	ID 026 Characterization of Raw and Chemically- Modified Date Palm Leaves Biomass and its Application for the Remediation of 2,4,6-Trichlorophenol from an Aqueous Environment	
			Siva Kumar Nadavala, Saudi Arabia	
01:30 PM	Lunch/ Poster Session			
03:00 PM		Keynote 7 Stanford Blade, University of Alberta, Canada		
		Agricultural Biomass: Towards a Circular Economy		
03:45 PM	Plenary 2 Guido Dr. Reinhardt, IFEU-Institute for Energy and Environment, Germany			
	Significant reductions in greenhouse ga	as emissions by optimized use of by-products from palm oil p	production: a comprehensive assessment	
04:15 PM		Best Presentation and Poster Award/ Closing		



























**DAY 1 | 05 December 2023** 

#### **POSTER PROGRAMME**

ID 1

LIGNOCELLULOSIC COMPONENTS OBTAINED BY ORGANOSOLV DESTRUCTURATION OF BIOMASS MATERIAL

AMMAR Houcine | Faculty of Sciences of Sfax | Tunisia

ID<sub>2</sub>

WATER ABSORPTION OF HDPE/WASHINGTONIA FILIFERA FIBER BIOCOMPOSITES: MODELING USING RSM AND GA-ANN

Ahmed Belaadi | University 20 aout 1955-Skikda | Algeria

ID<sub>8</sub>

THE EFFECT OF SOME HORMONES ON THE IN VITRO CULTURE OF DATE PALM (PHOENIX DACTYLIFERA L.) OF BOU-SAÂDA, ALGERIA

Ahlem Guettouchi | The University of Mohamed Boudiaf | Algeria

**ID 22** 

NANO CELLULOSE AND NANOCOMPOSITES FROM PALM BYPRODUCTS

Md. Zaved Hossain Khan | Jashore University of Science and Technology | Bangladesh

**ID 27** 

VALORIZATION OF DATE STONES IN THE TREATMENT OF AQUEOUS EFFLUENTS BY ADSORPTION PROCESS

Taous Hamad | Djilali Bounaama university | Algeria

**ID 32** 

ETHNOBOTANICAL SURVEY OF DATE PALM BYPRODUCTS USED IN SOUTHERN ALGERIA OASES: LOCAL KNOWLEDGE AND INTERESTS

Djamila Chabane | University of Sciences and Technology Houari Boumediene | Algeria

**ID 44** 

THERMAL ANALYSES OF PALM DATE SEEDS

Bel Abbes Bachir Bouiadjra | University of Sidi Bel Abbes | Algeria

ID 45

**EVALUATION AND COMPARISON BETWEEN DATE PALM FIBERS AND ALFA FIBERS COMPOSITES** 

Fekih Sidi Mohamed | LMPM, Department of Mechanical Engineering, University of Sidi Bel Abbes | Algeria

**ID 47** 

RECOVERY OF PALM TREE WASTE INTO PLANT FIBRES FOR REINFORCING CONSTRUCTION CONCRETE.

KHALFI Yassine | université de Sidi Bel Abbes | Algeria

ID 54

EVALUATION OF QUALITY OF YOGHURT WITH THE ADDITION OF DATE SYRUP (ROB) AND STUDY OF ITS STABILITY DURING STORAGE BY REFRIGERATION

ALLIOUA Meryem | Institute of Applied Sciences and Techniques (ISTA) | Algeria

ID 60

HYDROGEN PRODUCTION VIA CATALYTIC METHANE DECOMPOSITION OVER IRON-SUPPORTED ON ACTIVATED CARBON DERIVED FROM WASTE DATE PALMS

Hamid Ahmed | King Saud University | Saudi Arabia

ID 62

ANTIOXIDANT AND ANTICHOLINESTERASE ACTIVITIES OF FRUITS AND STALKS OF THREE VARIETIES OF ALGERIAN PHOENIX DACTYLIFERA L.

Ahmed Kabouche | Université frères Mentouri-Constantine 1 | Algeria

ID 68

THE DATE PALM (PHOENIX DACTYLIFERA L.) FROM ALGERIA: AN OVERVIEW OF BIOLOGY, USES, AND CULTIVATION

Salah Akkal | The University of Mentouri | Algeria

ID 75

ANTIOXIDANT ACTIVITY AND PHENOLIC CONTENT OF EXTRACTS FROM TWO VARIETIES OF DATES GROWN IN TUNISIA

Younes Moussaoui | Faculty of Sciences of Gafsa | Tunisia











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**DAY 2 | 06 December 2023** 

**ID 78** 

DESIGN OF SUSTAINABLE OIL SPILL CLEANUP ADSORBENT MATERIAL USING AGRICULTURE WASTE

Alhanouf Alagil | Imam Abdulrahman bin Faisal University | Saudi Arabia

ID 80

STABILIZATION OF SUNFLOWER OIL DURING ACCELERATED STORAGE: USE OF DATE PALM LEAVES EXTRACT AS A POTENTIAL ALTERNATIVE TO SYNTHETIC ANTIOXIDANTS

Noura bin Jabreen | Al Qussaim university | Saudi Arabia

**ID 82** 

CONCEPTUAL DESIGN OF ZERO WASTE DATES PROCESSING: FROM DATES TO VALUABLE PRODUCTS AND BYPRODUCTS

Abdelbasset Bessadok | King Saud University | Saudi Arabia

**ID 88** 

SEPARATION AND IDENTIFICATION OF FATTY ACIDS FROM DATE SEED OIL USING GS-MS GAS CHROMATOGRAPHY MASS SPECTROSCOPY

Mahdi Alkinani | Governorate Maysan - Ministry of Agriculture - Directorate Agriculture of Maysan. | Iraq

ID 91

COMPARATIVE STUDY OF MECHANICAL BEHAVIOR BETWEEN AN ADHESIVE MADE FROM DATE PALM WASTE AND FM-73 ADHESIVE

Sofiane MAACHOU | Institute of Science and Technology, University Center of Maghnia | Algeria

ID 98

PALM WASTE HEAT UTILIZATION IN COOLING AND DRYING OF DATES

Jamel Orfi | King Saud University | Saudi Arabia

**ID** 99

EFFECT OF TREATMENT ON PROPERTIES OF NITRILE RUBBER REINFORCED WITH DATE PALM FIBERS

Othman Alothman | King Saud University | Saudi Arabia

ID 104

EFFECT OF ANNEALED STEEL SLAG DOSES ON THE PHYSICOCHEMICAL PROPERTIES OF BIOCHAR DERIVED FROM WASTE DATE PALM FRONDS

Hana Almarri | Immam Abdulrahman bin Fisal University- Science College | Saudi Arabia

ID 108

PREPARATION OF ACTIVATED CARBON FROM DATE PALM RACHIS BY CHEMICAL ACTIVATION: OPTIMIZATION AND APPLICATION FOR REMOVAL OF METHYL ORANGE

Hafidha Debbache | University Of Kasdi Merbah-Ouargla | Algeria

ID 123

INVESTIGATION THE FEATURES OF ALGAL BIOCHAR DOPED WITH GREEN SYNTHESIZED SILVER NANOPARTICLES FROM PALM LEAVES WASTE AND STUDY SOME OF

THEIR POSSIBLE APPLICATIONS

Nadiyah M. Alabdallah | Imam abdulrahman bin faisal university | Saudi Arabia

ID 127

EVALUATION OF THE ANALYTICAL AND PHYTOCHEMICAL STUDY OF THE EXTRACTS FROM THE HEART OF PHOENIX DACTYLIFERA L

BEN SEGHIER MERIEM | University Of Kasdi Merbah Ouargla | Algeria

**ID 133** 

VALORIZATION OF DATE PALM OASIS WASTES BY COMPOSTING PROCEDURE UNDER HOT ARID CONDITIONS OF ALGERIAN SAHARAN REGIONS

Oustani Mabrouka | University of Kasdi Merbah Ouargla | Algeria

ID 149

IN VITRO APPROACHES TO ASSESS THE EFFECTS OF DATE SYRUPS AND THEIR POLYPHENOL AVAILABILITY AND THE SUBSEQUENT IMPACT ON THE GUT MICROBIOTA IN RATS.

Randah Alqurashi | King Faisal University | Saudi Arabia

ID 154

A REVIEW ON APPLICATION OF ARTIFICIAL NEURAL NETWORK FOR INDUSTRY OF BYPRODUCTS OF PALMS

Abdulwahed Aboukarima | King Saud University | Saudi Arabia



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**DAY 3 | 07 December 2023** 

ID 160

PHYSICO-CHEMICAL, MICROBIOLOGICAL AND TOXICOLOGICAL MONITORING OF COMPOST FROM MIXING PALM DATE RESIDUES AND URBAN SEWAGE SLUDGE
Oustani Mabrouka | University of Kasdi Merbah Ouargla | Algeria

ID 163

EFFECT OF PARTICLE SIZE ON BEHAVIOR OF BIOCOMPOSITE BASED ON DATE PALM SEED: DESTRUCTIVE AND NON-DESTRUCTIVE INVESTIGATION

REKBI Fares Mohammed Laid Research Center In Industrial Technologies -CRTI- | Algeria

**ID 164** 

**VALORIZATION OF OASIS WASTES BY COMPOSTING PROCEDURE IN THE SAHARAN REGIONS** 

Oustani Mabrouka | University of Kasdi Merbah Ouargla | Algeria

ID 168

SUSTAINABLE APPROACHES FOR THE FABRICATION OF CELLULOSE-POLYAMIDE MEMBRANES BASED ON DATE PALM LEAVES FOR WATER TREATMENT

Seham ALTERARY | King Saud University | Saudi Arabia

ID 169

CARBON NANOSTRUCTURES DERIVED FROM DATE PALM: OPPORTUNITIES AND APPLICATIONS

Saleh M Alluqmani | Umm AL-Qura University | Saudi Arabia

ID 173

ECO-FRIENDLY FABRICATION OF CU/AG FUNCTIONALIZED NANOCELLULOSE FOR BIOMEDICAL APPLICATIONS

Jegan Athinarayanan | King Saud University | Saudi Arabia

**ID 206** 

ASSESSMENT OF DIFFERENT DATE PALM BASED MIXES FOR SOILLESS CULTURE

Mohammad Ali | Jazan University | Saudi Arabia

ID 211

EFFECT OF ADDING DATE PALM POLLEN GRAINS ON THE NUTRITIONAL VALUE, SENSORY AND NATURAL (PHYSICAL) PROPERTIES OF CAKE

Faia Nabil Almuhaytib | King Faisal University | Saudi Arabia

ID 217

Antimicrobial Activity of Green Synthesized Silver Nanoparticles Using Waste Leaves of Hyphaene thebaica (Doum Palm)

Sana Mohammed | Imam Abdulrahman Bin Faisal University | Saudi Arabia

ID 218

Design of an Efficient, Cost-Effective Date Palm-Derived Biochar- Silk Fibers for Oil Spills Cleanup

Asma Alqahtani | Imam Abdulrahman Bin Faisal University | Saudi Arabia

ID 219

Enhancing Arid Agriculture with Palm Byproducts and other polysaccharides: Sustainable Solutions and Innovations

Mohamed Hamid Salim | Khalifa University | United Arab Emirates

ID 221

Stabilization of Sunflower Oil During Accelerated Storage: Use of Date Palm Leaves Extract as a Potential Alternative to Synthetic Antioxidants

Norah Bin Jibrin | Qassim University | Saudi Arabia

ID 222

Producing Biochar from Date Palm Tree Residues and its Economic Uses in Agriculture

Hesham Ghazzawy | Date Palm Research Center of Excellence, King Faisal University | Saudi Arabia



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