

Time	Ceremony Day: Tuesday, 12-10-2021												
08:00-09:00	Conference Registration												
09:00-10:00	Opening Ceremony												
10:00-10:30	Coffee Break												
10:30-11:00	Keynote Speech (I)			In Hall	Polymeric Gels in Oil and Gas Applications					Prof. Ibnelwaleed Husein			Qatar
11:00-11:30	Keynote Speech (II)			Online	Eco-friendly fungal treatment and AOPs for efficient removal of pharmaceuticals in urban and hospital wastewaters					Prof. Damia Baecelo			Spain
11:30-12:00	Orientation to sessions												
	Hall (A)				Hall (B)				Hall (C)				
	Heat and mass transfer in chemical processes				Chemical process modeling, simulation and control				Chemical engineering kinetics				
	Chair: Prof. Basma A. Abdulmajeed / Co-Chair: Prof. Waid Omar				Chair: Prof. Ahmad Shawaqfeh / Co-Chair: Dr. Linda Al-Hmoud				Chair: Dr. Ibrahim Altarawneh/ Co-chair: Dr. Ziad Abu El-Rub				
12:00-12:20	Performance evaluation of triple concentric tube heat exchanger using [EMIM][BF4] ionic liquid and MWCNT/[EMIM][BF4]	Basma A. Abdulmajeed	Iraq	In Hall	Robust MBPC control tuning using multi-objective evolution algorithm for a distillation column	Haitham Osman	Jordan	In Hall	An equilibrium Ab initio atomistic thermodynamics study of CH ₄ and CO ₂ adsorption on the α-quartz (001) surface	Ibrahim Suleiman	Jordan	In Hall	
12:20-12:40	Review of multicomponent adsorption and isotherms for multicomponent adsorption	Amrutha	India	Online	Design of deep eutectic solvents: selecting constituents based on molecular structure	Ahmad Alhadid	Germany	Online	Preliminary evaluation of piston reactor technology for methane reforming reactions	Mamoun Rawashdeh	Qatar	In Hall	
12:40-13:00	Polymeric heat exchangers in seawater desalination – impact of surface characteristics and process conditions on cleanability	Hendrik Kieper	Germany	Online	Application of RSM modeling and optimization to synthesized Gemini surfactant corrosion inhibition of carbon alloy C1010 in acidic environment	Shamsuddeen Haladu	Saudi Arabia	Online	Synthesis and characterization of fluoroperovskite KZnF ₃ compounds	Messai Bahia	Algeria	Online	
13:00-13:20	Hot air drying of celery: drying kinetics, pretreatment effect and color changes	Ilknur Kucuk	Turkey	Online	Solubility modelling of polyphenols in supercritical carbon dioxide and modifier using cubic plus association model	Azizul Azri Bin Mustafa	Malaysia	Online	Pyrolysis for high density polyethylene: Kinetic study	Mohammed Al-Yaari	Saudi Arabia	Online	
13:20-13:40	Evaluation of mechanical and thermal properties of carrageenan/hydroxypropyl methyl cellulose hard capsule	Nur Amalina Binti Ramli	Malaysia	Online	Optimization of supercritical carbon dioxide extraction of phenolic compounds from algerian plant (peganum harmala seeds) using box-behenken design based multi-response analysis.	Melloul Sarra	Algeria	Online	Ultrasound effect on 5-CQA and tryptophan reaction: Assessment of the reaction kinetics and product's physicochemical characteristics	Anna-Maria Menelaou	Greece	Online	
13:40-14:00	Coffee Break												
14:00-14:30	Keynote Speech (III)			Online	The impact of two seas canal on Dead Sea chemical industries					Prof. Abdelaziz Khlaifat			Jordan
14:30-14:50	Experimental-investigation-on-the-performance-of-Phase-Change-Material	Obada Dwekat	Palestine	In Hall	Predictive RSM and artificial neural network (ANN) models for Cr(VI) adsorption onto CoAl based layered double hydroxide	Nabeel A Jarrah	Jordan	In Hall	MBAS removal by natural zeolite adsorption isotherm, kinetic and thermodynamic study	Aymen A. Awad	Jordan	In Hall	
14:50-15:10	Experimental study of hydrodynamic behavior with mono-particles of glass beads in three phase fluidized bed reactor	Omar Sabaah Mahdy	Iraq	Online	Theoretical investigations on the optimal topology of crude oil desulfurization process	Said Al Rabadi	Jordan	In Hall	Kinetics of toluene dry reforming reaction using jordanian kaolinite as a catalyst	Ziad Abu El-Rub	Jordan	In Hall	
15:10-15:30	Testing and commissioning of a cold inflow free chimney dryer	Phang Hooi Kim	Malaysia	Online	Optimization design of optimal parameters in the denitrification reactor	Meriem Bouteraa	Algeria	Online	Application of modified Langmuir-Freundlich isotherm for 2 modeling chromium adsorption at varying pH conditions	Sharon Pereira	India	Online	
15:30-15:50	A review on dissolution behaviour of multicomponent non-aqueous phase liquids	Praveengouda Patil	India	Online	Population balance modelling for characteristic of bubble breakup and coalescence dispersions	Siti Aslina Hussain	Malaysia	Online	Spray-drying synthesis of oxidative coupling of methane catalysts: inclusion of SiC to the support	Shekhar R Kulkarni	Saudi Arabia	Online	
15:50-16:10	Heat exchange in the processes of welding of rails and hardening of railway wheels	Vladimir Saranchin	Russia	Online	Pascal triangle from neutronics to genomics	Wajdi Mohamed Ratemi	Libya	Online	Carbon monoxide desorption and reduction studies of graphitic carbon nitride (g-C ₃ N ₄) supported nickel catalysts	Khairul Naim Ahmad	Malaysia	Online	
16:10	LUNCH												

Time	Second Day: Wednesday, 13-10-2021												
09:00-09:30	Keynote Speech (I)			Online	Advanced polymers					Prof. João B. P. Soares			Canada
09:30-10:00	Keynote Speech (II)			In Hall	The emerging potential of triply periodic minimal surfaces (TPMS) applications in water and wastewater treatment					Prof. Hassan Arafat			UAE
10:00-10:20	Coffee Break												
	Hall (A)				Hall (B)				Hall (C)				
	Biochemical engineering and biotechnology				Sustainable environmental management				Potentials and challenges of local industries / Chemical Engineering and the Dead Sea: the chemically live sea				
	Chair: Prof. Zakaria Al-Qodah/ Co-Chair: Dr. Ibrahim Suleiman				Chair: Prof. Ibnalwaleed Husein/ Co-chair: Dr Mohammad Al-Hwaiti				Chair: Prof. Adnan Harahsheh/ Co-chair: Eng. Emad Talafeha				
10:20-10:35	Production of biodiesel using alkaline based catalysts from extracted gatropa oil in Yemen: a case study	Abdulbari Abdulrahman Ahmed	Yemen	In Hall	Application of sentinel 2 to evaluate colored dissolved organic matter algorithms for inland water bodies in Jordan.	Nidal M. Hussein	Jordan	In Hall	Sequential extraction of rare earth elements from phosphogypsum	Ahlam Waleed Hunaihen	Jordan	In Hall	
10:35-10:50	Biologically production of organic fertilizer (compost) from rice husk	Iman H Gatea	Iraq	Online	Sentinel 2 snalysis of turbidity retrieval models in inland water bodies: the case study of Jordanian farms	Nidal M. Hussein	Jordan	In Hall	A review on the size reduction technology using mechanochemistry approach	Mohammad Ratib Alrbaihat	Jordan	Online	

10:50-11:05	Effect of Melittin for honey bee <i>Apis mellifera</i> in some pathogenic parasites in vitro	Fayhaa Abbood Mahdi Al-nadawi	Iraq	Online	Pyrolysis of high-density polyethylene: II. artificial neural networks modeling	Ibrahim Dubdub	Saudi Arabia	Online	Selective recovery of lithium from dead sea end brines using UBK10 ion exchange resin	Sewar AlJarrah	Jordan	In Hall	
11:05-11:20	Characterization of inclusions complexes D-Glucosamine derivatives with I ² -CD	Hocine Bouleghlem	Algeria	Online	Regeneration of CO ₂ Loaded 2-(Diethylamino)-ethanol using organic solvent and waste heat	Madhusree Kundu	India	Online	Dead Sea brine water chemical and physical stratification features influenced by the continuous drop in sea level	Tayel El-Hasan	Jordan	In Hall	
11:35-11:50	Investigation of the relationship between the digested sludge dewatering and microbial activity improved by chemical pretreatments	Kadri imene	Algeria	Online	Groundwater hydrogeochemical and quality Appraisal for agriculture irrigation in greenbelt grea, Iraq.	Eman Shakir	Iraq	Online	Simple correlation for predicting gypsum deposition from brine solutions	Hosni M A Zubeir	Bahrain	Online	
11:50-12:05	Synthesis of new compound (Chalcone) derivative from pyrimidine and studying of antimicrobial to this compound.	Aseel Fadhil Kareem	Iraq	Online	Removal of lead ions from simulated industrial waste water by using activated carbon produced from heavy oil fly ash	Waleed M. Abood	Iraq	Online	Carbon dioxide sequestration in Dead Sea water	Raghad alkhathib	Jordan	In Hall	
12:05-12:20	Coffee Break												
12:20-12:50	Keynote Speech (III)			In Hall	The future of the Dead Sea				Prof. Ibrahim Oroud				Jordan
Biochemical engineering and biotechnology				Nanotechnology applications in chemical engineering				Desalination and sustainable water treatment					
<i>Chair: Prof. Zakaria Al-Qodah/ Co-Chair: Dr. Ibrahim Suleiman</i>				<i>Chair: Dr. Sagheer Onaizi/ Co-Chair: Prof. Reyad Shawabkeh</i>				<i>Chair: Prof. Hassan Arafat/ Co-Chair: Dr. Habis AlZoubi</i>					
12:50-13:10	Effect of pre-treatment of wheat straw and sludge digestion on biogas yield production	Arwa Al-Da'asen	Jordan	In Hall	CO ₂ capture by graphene-based nanocomposites: Effects of oxygen and nitrogen contents	Sagheer Onaizi	Saudi Arabia	In Hall	Reuse of treated carwash wastewater by using natural zeolite	Raha Kharabsheh	Spain	In Hall	
13:10-13:30	Thermoelectric properties of Ni, Co, and Fe nanoparticles incorporated into their metal borates glassy matrices	Isam Arafa	Jordan	In Hall	Carbon nano-dots from natural resources as optical sensors for iron ions/Fe ³⁺ : A review	Marah Daraghmah	Palestine	In Hall	Removal of heavy metals contaminants from wastewater using petroleum coke bottom ash	Batoul Rahmtalla Osman Ahmed	Sudan	Online	
13:30-13:50	Theoretical investigation of recovery of bioactive phenolic compounds from agri-food wastes through supercritical CO ₂ extraction	YAPRAK OZBAKIR	Turkey	Online	Synthesis of Ag(0)/nanoTiO ₂ catalyst using mechanical ball milling for phenol photodegradation	Mohammad Ashraf Ali	Saudi Arabia	Online	A facile synthesis of magnesium oxide nanoparticles and their performance as an efficient nano-adsorbent for removal of organic pollutants from aqueous media	Rowaida M. Fahmy	Egypt	Online	
13:50-14:10	Studies on uses of renewable energy and renewable and alternative sources of energy in heavy and integrated industries in Egypt	Mohammed Hamada Ahmed	Egypt	Online	An iron rotating disk for the elimination of hexavalent chromium ion from industrial wastewaters; putting it to work	Mohammed Al-Waqfi	Jordan	In Hall	Effective wastewater treatment using advanced oxidation process combined with magnetic nanoparticle setup	Emad Aldeen Salahat	Palestine	Online	
Online Poster Session													
<i>Chair: Prof. Marwan Batiha/ Co-Chairs, Dr. Emad El-Qada & Dr. Nidal Hussein</i>													
14:10-14:15	Synthesis and characterization of Sb ₂ O ₃ and study of their photocatalytic activity	Benmakhlof Aymen	Algeria	Online	Environmentally safe microwave heating of non-polar materials	Vladimir Saranchin	Russia	Online	Green hydrogen (New vision for clean energy)	Raudh jamal raheem	Iraq	Online	
14:15-14:20	Structural refinement of CaF ₂ and MgF ₂ fluorides by the Rietveld method	Messai Bahia	Algeria	Online	Green analytical chemistry	Hana Sh. Mahmood	United States	Online	Percentage of total organic carbon in oil shale by two different method of sample preparation	Ola Abu-Hanieh	Jordan	Online	
14:20-14:25	Void				Contractors and industrial sustainability		Raed Khalaf Al Yasin	Saudi Arabia	Online	Chemical Engineering الهندسة الكيميائية ومجالات استخدماتها نحو تحقيق الاستدامة utilization toward sustainability	Mohamed El-Sayed El-Sawey Shatla	Egypt	Online
General Chemical Engineering				Nanotechnology applications in chemical engineering				Desalination and sustainable water treatment					
<i>Chair: Dr. Linda Al-Hmoud/ Co-Chair: Eng. Rose Smadi</i>				<i>Chair: Dr. Sagheer Onaizi/ Co-Chair: Reyad Shawabkeh</i>				<i>Chair: Prof. Hassan Arafat/ Co-Chair: Dr. Habis AlZoubi</i>					
14:25-14:45	Zero liquid discharge at Arab Potash Company	Ala'a Rafie Omari	Jordan	In Hall	Ultimate eradication of the ciprofloxacin antibiotic from the ecosystem by nanohybrid go/o-cnts.	Ahmad Rafiq Muosa Mohammad	Jordan	In Hall	The role of cofactor addition on flocculation and deflocculation behaviors of fines flocculation using a cofactor and polyethylene oxide retention aid	Mohammad Raji Abdallah Qasameh	Saudi Arabia	Online	
14:45-15:05	Institutional performance development in the water sector of Jordan	Mohammed Al-Waqfi	Jordan	In Hall	Tools of material engineering for designing membrane materials with desire features	Joanna Kujawa	Jordan	In Hall	Humic acid removal from aqueous stream using calf bones charcoal as a green sorbent: A reversible process	Seyede Parvin Moussavi	Canada	Online	
15:05-15:20	CO ₂ capture by kaolinite based geopolymer	Sabreen Mheidat	Jordan	In Hall	Sulphonated mil-101(cr): microwave responsive catalyst for fructose dehydration into platform chemicals	Noor Aljammal	Belgium	In Hall	The corrosion and sedimentation status of drinking water in Iran's distribution network: A systematic review	Seyede Parvin Moussavi	Iran	Online	
15:25-15:45	COVID-19 effect on health and safety of workers in the workplace: A case study in Jordan	Heba Alzaben	Jordan	In Hall	Fairdeal's introduces innovative waste management solutions based on nano engineering.	Abdalla Al Jedayeh	UAE	In Hall	A comprehensive insight into detection and removal techniques of pharmaceuticals, an emerging contaminant from water	Deeptimayee Pal	India	Online	
15:45-16:00	Green hydrogen (New vision for clean energy)	Raudh jamal raheem	Iraq	In Hall	Synthesis, characterization and optimization of lithium iron phosphate nanowires from bacterial cellulose	Gan Kian Hong	Malaysia	Online	Methanation of carbon dioxide -The mitigation and utilization of greenhouse	Rawan Nabeel Khaleel Alyasoury	Jordan	Online	
16:00-16:15	Development of new electrode for phosphoric acid fuel cell	Mohammad ali frej	Jordan	In Hall	Co-catalyzed with mil-47(v) metal organic framework and carbon nanotubes for an enhanced mgh2 hydrogen sorption performance	Atikah Kadri	Malaysia	Online	Short briefings of award-winning companies of best Jordanian product	Group	Jordan	In Hall	
16:15-16:30	The reality of threats to security and safety in environment of Gaza Strip	Mohammed Al-Mougher	Palestine	Online	Evaluation of corrosion and scaling in Khoms Power Plant	Abdulhamid. Elwaer	Libya	Online	Void				
16:15	LUNCH												

Time	Third Day: Thursday, 14-10-2021												
09:00-09:30	Keynote Speech (I)			Online	Bioprocesses for the conversion of carbon dioxide and other industrial gases to bioproducts				Prof. Christian Kennes				Spain
09:30-10:00	Keynote Speech (II)			Online	Process mass and heat transfer				Prof. Yunus Cengel				Turkey
10:00-10:30	Keynote Speech (III)			Online	Process Safety: Knowledge, competency and credentialing				Shakeel H. Kadri; Executive Dirctor & CEO of CCPS				USA
10:30-10:40	Coffee Break												

	Hall (A)				Hall (B)				Hall (C)			
	Energy first: renewable energy and conventional resources for chemical industries				Sustainable environmental management				Chemical Process safety			
	Chair: Prof. Marwan Batiha/ Co-Chair: Prof Mohammad Al-Harashsheh				Chair: Dr. Nidal Hussein/ Co-Chair: Dr. Linda Al-Hmoud				Chair: Prof Naeem Al-Faqeer/ Co-Chair: Eng. Yacoub Banitaha			
10:40-10:55	Process evaluation of heavy hydrocarbons autothermal reforming	Fernanda Tavares	Saudi Arabia	In Hall	Conversion of palm-oil empty-fruit bunch waste to activated-carbon using superheated steam	Nur A'ina Shafiq Wakari	Malaysia	Online	Complacency, our worst enemy: a recipe for disaster	German Luna-Mejias	Canada	Online
10:55-11:10	Paraffin-coated superhydrophobic sand mulches for controlling water evaporation from irrigated soils in arid regions	Adair Gallo Junior	Saudi Arabia	In Hall	Nutrients recovery from hybrid adsorbents through the application as slow-release fertilizer: A mini-review	Nurliyana Nasuha Binti Safie	Malaysia	Online	Process safety near misses are warning signs for a major incident	Rajender Dahiya	United States	Online
11:10-11:25	Low-tar, highly-burnable gas production from the gasification of pelletised palm empty fruit bunch	Nur Hanina Malek	Malaysia	Online	Algerian contaminated groundwater treatment by using acacia gum: organic pollution removal	Rania Remmani	Algeria	Online	protection layers integrity management – an illusion?	Rajender Dahiya	United States	Online
11:25-11:40	Co-combustion characteristic of Malaysian low rank coal and oil palm biomass char derived from conventional and microwave irradiation pyrolysis technique	Siti Shawalliah Idris	Malaysia	Online	Recovery of glass fibers from end-of-life wind turbine fiber composite wastes through pyrolysis process	Salman Raza Naqvi	Pakistan	Online	Encoded safety instructions	Shehab Mohamad Al-sohpany	Yemen	Online
11:40-11:55	Sustainable portable solar-thermal desalination unit	Mohamad Hammoud	Saudi Arabia	Online	Photodegradation of methylene blue by carbon nanodots synthesized from olive solid wastes	Shadi Sawalha	Palestine	Online	Prediction of compressive strength of concrete from early age test result using design of experiments (RSM)	salem alsanusi	Libya	In Hall
11:55-12:10	Advanced air dehumidification membranes for energy efficient membrane-based air-cooling	Ahmed Abdala	Qatar	Online	Emerging and sustainable technologies for wastewater treatment: A current perspective and future direction	Madhumita Manna (Sujit)	India	Online	Solar panel technology using nanotechnology	Eyad AlRashaideh	Jordan	Online
12:10-12:25	The case of microbial fuel cell as sustainable wastewater treatment technology with co-generation of electricity: A Saudi Arabia scenario	Nuhu Dalhat Mu'azu	Saudi Arabia	Online	Evaluation of the anti-inflammatory activity of polyphenols from algerian monovarietal olive oil mill wastewaters	Zakia Gueboudji	Algeria	Online	Heavy metal-contaminated water treatment using low-cost adsorbents	Mohammed Abualreesh	Palestine	Online
12:25-12:40	Total safety operation management (TSOM) & business continuity management (BCM) of fire, life safety design aspect	Jalal R. Omar	Saudi Arabia	Online	Lighting up the future new technologies for smart devices	Abdelhadi Benabdessadok	Algeria	Online	Using reason's Swiss cheese model to investigate 2005 bp Texas city refinery explosion accident in terms of occupational psychology and ergonomics	Malik M. S. Salhab	Palestine	Online
12:40-12:55	Experimental investigation of the impact of tubes arrangement on local heat transfer coefficient in mimicked Fischer-Tropsch fluidized bed reactor	Zahraa Waseem Hasan	Iraq	Online	Dynamic mechanical analysis and morphological Study of Composites of polyvinyl chloride - Date Palm leaf Fiber	Abir Berkouk	Algeria	Online	Study of the impact of the tube configurations on the local heat transfer coefficient in a bubble column reactor with heat exchanging tubes	Abdulrazaq Nadhim Alzamily	Iraq	Online
Sponsor's Corner												
12:55-13:05	Kemapco company profile	Kemapco	Jordan	In Hall	Water Recovery Project	Jordan Bromine	Jordan	In Hall	Jordan Phosphate Mines Co company profile	Group	Jordan	In Hall
13:05-13:20	Closure											
LUNCH												