

CONFERENCE PROGRAM: RENEWABLE ENERGIES

الملتقى الدولي الأول لفيزياء مركبات أشباه الناقل و الطاقات المتجددة و البيئة

The first International Conference on Physics of Semiconductor Devices, Renewable Energies and Environment

Bechar, Algeria 14th – 16th November 2022

Second day

Sunday November 15, 2022

Session A: Renewable Energies

Session chair : Prof. Abdelkrim MERAD | rapporteur : Dr. Sabira NOUR

Plenary presentation

Dr. Fathya CHEKIRE	Nearly Zero-Energy in Algerian Buildings: Case Study of UDES' Solar Smart House	08:30 to 09:10
Dr. Chibuisi C. KORIEIMOH	Influence of temperature-corrected performance ratios on the rooftop grid-connected photovoltaic arrays installed in Northern Ireland	09:10 to 09:50

N° ID	Attendees	Presentation title	Time
Zoom Link			
20	PhD. Manal Yasmine BOUDJELLA	Effect of pressure on the electronic properties of rare earth-based Heusler compounds X ₂ RuPb (X= Sc, Y and La)	09:50 to 10:05
Tea/Coffee break : 10:05 to 10:35			
Session Chair : Dr. Youcef HIMRI rapporteur : Prof. Fouad KHALDI			
	Prof. Mounir AKSSAS	Design and Sizing Tools of Solar Photovoltaic and Thermal Systems	10:35 to 11:15
05	Dr. Fayssal GOUFELGHA	Effect of Sn doping on the photocatalytic properties of ZnO	11:15 to 11:35
Zoom Link			
09	PhD. Oussama BELAROUSSI	Optimal MPPT Performance for a Solar PV Water Pumping System	11:35 to 11:50

03	Dr. Khalil BENMOUIZA	Analysis of Solar Energy Potential in Algeria using Solar Zoning Maps	11:50 to 12:05
07	Dr. Mohamed Amine HARTANI	Robust frequency decoupling based power split of Battery/Supercapacitor hybrid energy storage systems in DC-Microgrids	12:05 to 12:20
Attendee presentations			
08	PhD. Boubekeur GHAZI	Numerical Simulation of Hybrid Nanofluid Natural Convection in Inclined Rectangular Cavity	12:20 to 12:40
Zoom Link			
28	PhD. Aissa BENHAMMOU	Impact of Artificial Intelligence in Energy Management of Renewable Hybrid Systems	12:40 to 12:55
Lunch break : 13:00 to 14:30			
Attendee presentations			
Session Chair : Prof. Mounir AKSAS Fouad KHELDI rapporteur : Prof. Syham KADRI			
Prof. Fouad KHELDI		Concentrating solar power (CSP) in the MENA region	14:30 to 15:10
10	PhD. Issam Eddine BACHA	Performance study of photovoltaic / thermal- hybrid solar system	15:10 to 15:30
Zoom Link			
24	Dr. Zahra MOKRANI	Proposed energy management strategy for PEM fuel cell/Supercapacitor Hybrid system	15:30 to 15:45
25	Dr. Mohamed Haithem LAZREG	Control of dual star induction generator based on multi-level inverter used in wind energy conversion system	15:45 to 16:00
Tea/Coffee break: 16:00 to 16:30			
Session Chair: Dr. Fathya CHEKIRED Rapporteur: Prof. Mohammed GHAZALI			
N° ID	Attendees	Presentation title	Time
18	PhD. Mohamed MAMMERI	Predicting perovskite solar cell stability by using different machine learning and neural networks approaches	16:30 to 16:50
Zoom Link			

11	PhD. Meriem GASMI	Structural, optical properties of NiO thin film deposited by spray pyrolysis method	16:50 to 17:05
15	Dr. Kahina REKKAL	Study of two NACA profiles (4409-4418) of a wind turbine using QBLADE software	17:05 to 17:20
Attendee presentation			
16	Dr. Houcine AISSANI	Modelling and Simulation of a PV connected to the Electric network	17:20 to 17:40
Zoom Link			
19	Dr. Naceur SELMANE	Experimental and Simulation Study of ZnO based TCO electrodeposited on n silicon substrate to improve the Performance of heterojunction solar cells	17:40 to 17:55
Session closing 18:00			

Attendee presentation			
Session Chair : Prof. Mebarka DAOUDI Rapporteur : Dr. Mohammed BENSAFI			
26	Dr. Ahmed BEKHTI	Power generation prediction of a SAVONIUS wind turbine using CFD investigation	16:30 to 16:50
Zoom Link			
06	PhD. Bachiri BADIAA	Performance analysis of MAPbI ₃ and MAPbBr ₃ based perovskite solar cells	16:50 to 17:05
14	PhD. Fatiha DAOUDI	Investigations on the optimization of contacts barrier height for the improved performance of ZnO/CdS/CZTS solar cells	17:05 to 17:20
Session closing 18:00			

CONFERENCE PROGRAM: FLOW AND HEAT TRANSFERS

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Tuesday November 15, 2022

Session B: Flow and heat transfers

Session chair: Dr. Said BENNACEUR | Forum rapporteur: Dr. Khelifa HAMI

Plenary presentation

Prof. Belkacem DRAOUI	Modeling, Identification And Control Of Building To Improve Thermal Energy Performances "Case Of South-West Algeria"	08:30 to 09:10
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N° ID	Attendees	Presentation title	Time
04	Dr. Mohammed DOUHA	Contribution to the study of conjugate heat transfer in forced convection in nanofluids of a channel equipped with corrugated baffles	09:10 to 09:30
01	Dr. Leila BENYAMINA	Comparative hydrodynamic study between the curved and straight agitators	09:30 to 09:50
Zoom Link			
14	Dr. Abderrahmane BOURADA	Natural convection of power law fluid within rectangular inclined cavity containing two circular obstructions: MRT-LBM approach	09:50 to 10:05
Tea/Coffee break : 10:05 to 10:35			
Session Chair: Dr. Mohammed BENSAFI Forum rapporteur Dr. Syham KADRI			
07	PhD. Mohammed Amine KENANDA	A Novel High Order Shear Deformation Theory for Free Vibration Analysis of Solar Functionally Graded	10:35 to 10:55

		Plates Resting on a Kerr Foundation in a Thermal Environment	
Zoom Link			
12	PhD. Amina DJELLOULI	Finite element method for modeling the plasma fusion equilibrium in tokamak	10:55 to 11:10
10	PhD. BOUSSOUF Amir	Numerical Study Of Steam-Air Condensation In a Porous Membrane Along a Vertical Channel	11:10 to 11:25
Attendee presentations			
15	PhD. Mohamed Lamine GHANMI	Numerical Simulation of Heating and Ventilation by Natural Convection in a Square Cavity Heated by Transient Temperature	11:25 to 11:45
Session closing 12:00			
Lunch break : 13:00 to 14:30			