

جامعة شعيب الدكالي . ١٠٥٨،١٤١ ٥٥،٥٠٥ ٨٨٣٣ ما

Université Chouaïb Doukkali

International Conference on Sustainable Energy,
Mechanics, Advanced Materials, Hydrogen
Innovation and Environment Sciences



Topic 1

Mechanics

Topic 2

Advanced Materials

Topic 3

Energy & Environmental Engineering

Topic 4

Hydrogen Innovation and Environment Sciences



L'Ecole Nationale des Sciences Appliquées d'El Jadida









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May 28, 2024			
08:00 - 08:30	Regstration		
08:30 - 09:00	Registration		
09:00 - 09:30		Ouverture	
09:30 - 10:30	Plenary 1 Pr. Fouad Erchiqui Mechanical Engineering (University of Quebec in Abitibi-Témiscamingue, Rouyn-Noranda (QC, Canada)) Plenary 2 Prof. Mohamed BALLI Physics of materials (Associate Professor of Physics at the International University of Rabat and at Sherbrooke University, Canada) Plenary 3 Prof. Mourad Nachtane "AI and composite materials for Hydrogen storage tank design" (Assistant Professor at UM6P)		
		Coffee break	
10:30 - 10:50	Keynote 1	Keynote 2	Keynote 3
10:50 - 11:05	Adsorption CV dye from aqueous solution by graphene oxide grafted cellulose(GO@Cellulose) adsorbent Zarrik Basma	Application of Non-Linear Techniques in Passive Hybrid Circuits for Piezoelectric and Pyroelectric Energy Harvesting El Hmamsy Youssef	Assessment of Corrosion Inhibition Efficiency on Low Carbon Steel in Phosphoric Acid Medium Using a Green Inhibitor Extracted from Agricultural Waste Sources Moughazi Yassine
11:05- 11:20	A novel Chitosan-Alginate@Fe/Mn Mixed Oxide Nanocomposite for Highly Efficient Removal of Cr (VI) From wastewater: Preparation, Characterization and Removal mechanisms El Kaim Billah Rachid	Application of PLS-ANN Hybrid Advanced Chemometric Models for Turbidity Mitigation in COD Quantification in Water Nini Meryem	Comparative study and Damage Modeling by Fracture of Acrylonitrile Butadiene Styrene (ABS) Bouhsiss Hassan
11:20 - 11:35	Ab-initio investigation of structural, electronic, and optical properties of the Rb2CuSbCl6 double perovskite. Bouzidi Mustapha	Competitive Adsorption of Two Phenolic pollutants Compounds Using a Novel biosorbent: Analytics (HPLC), Statistical (experimental design), and Theoretical Study (DFT) Bouzid Taoufiq	Evaluating the Effects of Temperature and Root Activity on Soil Water Distribution Using HYDRUS-(2D/3D). Jaefar Abderrahim
11:35 - 11:50	A comparative study of the structural, electronic, and optical properties of Ge-based perovskites AGeCl3: Insights from DFT simulation El-Moudenib Khadija	Validated TRNSYS model for an Indirect Solar WaterHeater with Forced Circulation in various weather Zouitine Asmaa	Fiabilité et Endommagement en Mode II d'un Composite en Fatigue Segnidi Hamza
11:50 - 12:05	Allaoui Mohamed Adsorption of a trivalent metallic micropollutant using a calccarbonate salt based on CaCO3	Theoretical and FEA Modeling for Thermal Energy Harvesting using Pyroelectric Materials. Chouaib Ennawaoui	Finite element modeling of the human ear using a lumped parametric model of the middle and inner ear Elghanaoui Souad

12:05 - 12:20	An Exploratory Assessment Supported by Experimental and Modeling Approaches for Dinitrophenylhydrazine Compound as a Potent Corrosion Inhibitor for Carbon steel in Sulfuric Acid solution Ait El Caid Zakaria	Thermal investigation of the effect of double glazing on the energy efficiency of a photovoltaic (PV) module Ahliouati Mohamed	Integration of a G-Code instruction to Abaqus Script Converter for improvement of the 3D Printing Process Simulation Hachimi Taoufik
12:20 - 12:35	Clay based materials for clean energy El Ghoubali Noura	The impact of varying the thickness of buffer and absorber layers on CuBi2O4 can be examined using SCAPS simulation and impedance spectroscopy. Farajy Mohammed	Interaction entre l'Angle de Rotation et le Rapport de Portée : Impact sur le Comportement Structural d'une Poutre en Béton Armé Kajja Mustapha
12:35 - 14:30		Lunch	
14:30 - 15:00	Plenary 4 Prof. Dr. İlhami ÇOLAK "Impacts of Digital Transformation on Alternative and Green Energies" (Assistant professor of Electrical Engineering at Gazi University, Turkey) Plenary 5 Prof. Hassan NAANANI "IA for renewable energy" (Assistant Professor at UM6P)		
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15:00 - 15:20	Keynote 4	Keynote 5	Keynote 6
15:00 - 15:20 15:20 - 15:35	Keynote 4 Complex conductivity as a tool to investigate the impact of H2S Concentrations on conduction mechanisms in Composite Sensor (n-ZnO/rGO). Hilmi Dalal	Degradation of an emergent antibiotic using Sono-Fenton process in aqueous media. Sandaoui Meriem	Mechanical characterization of (CPVC) using tensile tests at various temperatures and crosshead speeds Khtibari Abderrahim
	Complex conductivity as a tool to investigate the impact of H2S Concentrations on conduction mechanisms in Composite Sensor (n-ZnO/rGO).	Degradation of an emergent antibiotic using Sono-Fenton process in aqueous media.	Mechanical characterization of (CPVC) using tensile tests at various temperatures and crosshead speeds

16:05 - 16:20	DFT Investigation of Structural, Electronic, and Optical Properties of Rutile SnO 2 Using the Functionals BLYP, PBE, PZ, PBESOl, and VWN-RPA Ait Lhaj Abderrahim	First-principles study of AeCrH3 (Ae=Be, Li) perovskite type hydrides for optoelectronics and hydrogen storage applications Azdad A.	Predictive Maintenance in Industry 4.0: Advancements and Challenges Zaroual Soumaya
16:20 - 16:35	DFT study on the electronic, structure, magnetic and optical properties of TiO2 anatase Sadek Otmane	Flexible screen-printed electrochemical sensor based on Cu, Poly 1,5-Diaminonaphthalene and Carbon Black for nitrate detection in water Benhaiba Saad	The Effect Of A Half-Vehicle Suspension System For The Evaluation Of Power Harvesting Using A Numerical Simulation Method Maziane Youssef
16:33 - 17:00			
17:00 - 17:15	Effect of friction stir welding parameters on microstructure and mechanical properties of the dissimilar alloys of AZ91D and AA7075 Nait Salah Abdellah	Hydrogen supply chain: an overview Abousalim Zineb	The intrinsic decoherence dynamics of quantum teleportation and dense coding in a system with two coupled double quantum dots Sabor Aboubakre
17:15 - 17:30	Effect of Ti-doping on Magnetic, Mechanical, Band Structure, Thermoelectric, Optical and Thermodynamic Properties of Co2FeSn Full Heusler Moulay Youssef Raia	Novel Complex Conductivity Approach for Monitoring a Domestic Wastewater Treatment System with Sand and Hearth Ash Filtration El Hafidi El Mokhtar	Theoretical Analysis of Cycloaddition Reaction of Isatine's Azomethine Imines: Exploring Their Role as Dipolarophiles Moutakif Fatima
17:30 - 17:45	Examining the Mechanisms and Selectivities of Both the non- Catalyzed and Lewis acid-Catalyzed Diels-Alder Reaction Involving R- Carvone and Isoprene: MEDT Study Elidrissi Khadija	Desalination Reverse Osmosis reject brine as a novel-based porous geopolymer for phosphorus removal from contaminated media Fatima Zahra Karmi	Vector control of an asynchronous motor through flux orientation Kamel Hamza
17:45 - 18:00	Experimental and simulation study of microstructure and magnetic properties of (AlFeMnNi) 1â^' x Nd x Abjaou Ali	A Comprehensive Comparison of Active and Passive Circuits for Mechanical Energy Harvesting Using Piezoelectric Materials Bensaid Loubna	Numerical simulation with LBM of natural convection in a cubic cavity Karim Choukrallah
17:45 - 18:00	Exploratory study of potential usefulness of cost effective composites thin films for energy device Hammi Maryama	A-Ï€-D-Ï€-A Small Molecules Photovoltaic Based on Thiophene with an end-group effect: TD-DFT Study Zouitina Said	Active Matter: Elaboration, characterization and applications in wastewater treatment Fatima-Ez-Zahra Grini
18:00 - 19:00		Poster Session I	

May 29, 2024			
08:30 - 9:00	Plenary 6 Prof. Mustapha El Alami "Phase change materials and thermal storage" (Professor of Thermal Science at Hassan 2 University in Casablanca, Morocco) Plenary 7 Prof. El Kebir Hlil "Physics of materials" Professor of Physics of Materials in Grenoble Alpes University, France		
9:00 - 9:20	Keynote 7	Keynote 8	Keynote 9
09:20 - 09:35	Exploring the potential application of raw bentonitic clay resources sourced from Nador-Morocco, in the ceramic fields. Imgirne Ayoub	Application des ondes ultrasonores de basse fréquence en milieu aqueux pour l'élimination d'un colorant azoïque Aboulfadile Mohamed Amine	Development of new catalytic materials for liquid effluent disposal Lagrini Hakima Synthesis and Stability Investigation of TiO2 Nanofluids for PVT Applications Khadija chakar
09:35 - 09:50	Flexible screen-printed electrochemical sensor based on Cu, Poly 1,5-Diaminonaphthalene and Carbon Black for nitrate detection in water Benhaiba Saad	Characterization of the bio-char and its application on the removal of the organic load "polyphenols†from the OMW Elamraoui Sabah	Evaluating the Potential of Floating Solar Photovoltaics for Water Conservation: Case Studies on Four Hydroelectric Dams in Morocco Mouhaya Abdelilah
09:50 - 10:05	Highly Anisotropic Optical, Electronic and Magnetic properties of the Kitaev Spin Liquid candidate α-RuCl3 Bouhmouche Ayoub	Designing an Integrated Energy System for Self-Sustaining Housing El Mrini Youssef	Experimental and theoretical study of epoxidation reactions of halogen derivatives of himachalen with metachloroperoxybenzoic acid (m-CPBA) Ilham Ait Braim
10:00 - 10:30		Coffee break	
10:30 - 10:45	Influence of Lithium Doping on the Structural and Dielectric Characteristics of BaTi1-xLixO3-Î' Ceramics Prepared via Sol-Gel Process El Aychaoui Fouad	Enhancing InGaN/GaN quantum-well solar cells in Ga Polarity with Piezo- Phototronic Effects: Revealing the Influence of External Stress Hamza Bousdra	Klein tunneling in heterostructures based on tilted Dirac materials Raggui Mohamed
10:45 - 11:00	Insights on the corrosion inhibition control of C38 steel in acidic environment employing a natural inhibitor derived from Oil press cake waste process Kellal Rachid	Implementation of an environmental management system in a gallery construction site Casablanca Morocco Bakkass Soukaina	Magnetic properties and hysteresis behaviors of a cylindrical ferrimagnetic Ising nanowire system with a core/shell structure El Abbassi Ahmed

11:00 - 11:15	Intrinsic decoherence of quantum correlation and dense coding in a dipolar interaction system of spin- 1/2 particles with the Dzyaloshinskii-Moriya interaction Adnane Brahim	Innovation of practical and adjustable strategies for the implementation of sustainable reverse logistics process in industrial and commercial sectors Dnaya Soukaina	Mean Field Approximation and Monte Carlo Simulation of the mixed spin (1/2, 2) hexagonal nanotube with core-Shell structure El Kihel Karima
11:15 - 11:30	Investigation of the Structural and Optical Characteristics of La2FeCrO6 double perovskite for optoelectronic applications Lemziouka Abdelmoula	Exploring Hybrid Energy Systems with Low Carbon Footprint: A Comparative Study of Moroccan Coastal Cities in the Atlantic Region Aissi Tarik	Mechanistic Insights into the Selective Synthesis of 4H-Pyran Derivatives On-Water Using Naturally Occurring Alginate from Sargassum muticum Oudghiri Khaoula
11:30 - 11:45	Numerical simulation with LBM of natural convection in a cubic cavity KARIM CHOUKRALLAH	Mitigating Temperature-Induced State of Charge Drift in Battery Estimation Using Machine Learning Elachhab Anass	Structural investigation of Li2O-ZnO-P2O5-B2O3 quaternary glass system by Raman, FTIR and thermal analysis Bougrine Khadija
11:45 - 12:00	Nitrate intercalated Mg–Al1–yFey Layered Double Hydroxides based solid solutions series: Preparation, characterization, thermal stability and optical properties Lahkale Redouane	Optimizing autonomous nanogrid operations for community-based energy sharing Souda Abdelhadi Synthesis and Stability Investigation of TiO2 Nanofluids for PVT Applications Khadija Chakar	Synthesis and characterization of new TiO2 nanomaterials with hierarchical porosity by the sol-gel route, using sodium alginate as surfactant, and of Ag/TiO2 by the wet impregnation method Hakima Lagrini
12:00 - 12:15	Novel Complex Conductivity Approach for Monitoring a Domestic Wastewater Treatment System with Sand and Hearth Ash Filtration El Hafidi El Mokhtar	Investigation of photovoltaic performance of lead-free InSnCl3- based perovskite solar cell: First Principle Calculations and SCAPS-1D Analysis Garmim Taoufik	Optimizing Sugar Juice Extraction from Ceratonia siliqua L. Pulp: A One-Way ANOVA Study Outalb Khadija Advancing Predictive Maintenance in Renewable Energy Systems using Statistical Control Charts Erroumayssae Sabani
12:15 - 12:30	Optical, dielectric, and mechanical properties of polymer-based nanocomposite films reinforced with clay. Rhalmi Othmane	Solid State Spectroscopy Fundamental Functions in a Nutshell Dnaya Fatima Ezzahra	Spin-waves excitation of amorphous ferrimagnetic Fe65Gd15B12Si8 alloy El Ouahbi B
		Lunch	

15:00 - 15:20	Keynote 10	Keynote 11	Keynote 12
15:00 - 15:20	Performance analysis and optimization of Cdte-based solar cell heterostructure. Elmourabit Fahd Effet de la décohérence intrinsèque sur la dynamique des corrélations quantiques et le codage dense dans un système de spin dipolaire Youssef Khedif	Surface effects on magnetic properties of a ferrimagnetic mixed spin system Saadi Hasnae Synthesis and Evaluation of Biological Activity of Benzodiazepines and Benzimidazolones Derivatives Youssoufi Fatima	Predicting the performance of LaFeCoSi compound in a magnetic cooling Sabor Aboubakre Preparation of a Porous Clay Heterostructures and Study of Its Adsorption Capacity of Ammonium ion from Aqueous Solutions El Mahmoudi Soufiane
15:20 - 15:35	The effect of Magnetic field strength on the Binding Energy and Spatial Extension of an Off-Centre Donor Impurity in ZnS/CdSe Nanostructures Zouitine Asmaa	Synthesis and Characterization of Ceramic Piezoelectric Materials Misski Bouabid Solar Radiation forecasting Through Artificial Neural Networks Khouili Oussama	Proposed Product Data Model for Managing Vaccine Lifecycle Allam Sanae Synthesis and Characterization of Cu2ZnSnSe4 Absorbent Thin Films via Single-Step Electrodeposition for Photovoltaic Applications Rkia El Otmani
15:35 - 15:50	Caractérisation structurelle et optique de la pérovskite CaTiCrO Ruddlesden-Popper : aperçu d'une application avancée de cellules optoélectroniques et solaires Mounir Lakdadi Etude expérimentale de l'effet des conditions aérothermiques sur les courbes de séchage du Néflier du Néflier El Houssayne BOUGAYR	The anti-corrosive potential of a newly developed organic phosphonic acid on carbon steel in sulfuric acid Jafil Hayat COMBINAISON D'AMPLIFICATEUR À FIBRE À SEPT CŒURS CO-DOPÉ SDM-WDM Er3+/Yb3+ Ali Nassiri	Risk management using artificial intelligence for sustainable mining Biadi Wafaa
16:30 - 17:00		Coffee break	
17:00 - 17:15	The Effect of Surface and Bulk Exchange Interaction on the Magnetic Properties and Phase Transition of Mixed-Spin Ising System: A Monte Carlo Study Khairi Meryem	Study of the photocatalytic degradation of methylene blue by TiO2 multilayer Sadek Otmane	The impact of varying the thickness of buffer and absorber layers on CuBi2O4 can be examined using SCAPS simulation and impedance spectroscopy. Farajy Mohammed
17:15 - 17:30	The control of dissolution of carbon steel in acid electrolyte by a molecular coupling of the quinolinol-5-azobenzimidazole model Fakhry Hicham	The Effect Of A Half-Vehicle Suspension System For The Evaluation Of Power Harvesting Using A Numerical Simulation Method Maziane Youssef	Theoretical Study of Structural and Electronic Properties of Barium Stannate using DFT-LDA Approach Ouazik Brahim

17:30 - 17:45	The magnetization behavior at low temperatures in amorphous Eu80Au20 alloy El Ouahbi S.	Study of the Influence of Yttrium Ions on the Structural, Physical, and Optical Properties of Strontium Phosphate Glasses for Photovoltaic Solar Cell Applications Bouabdalli El Mahdi	Immobilization of Cobalt oxide onto mesoporous activated carbon for peroxymonosulfate activation El Mehdi Chatir	
Poster Session II				
19:00 - 19:30	19:00 - 19:30 Discussions and closing remarks			

Tuesday, 28 May Excursion & Free time (9H)

Poster Session I

1	Collimation of Dirac fermions in an inclined Dirac cone material through double barriers
1	Raggui Mohamed
	Comparative Study on Magnetic Stability, Electronic, Optical, Thermoelectric and Thermal properties of Co2FeSn
2	and Fe2CoSn Full Heusler alloys from first principles study
	My Youssef Raia
3	Critical properties of the spin-3/2 Blume–Capel model with a random transverse crystal field
3	El Kihel Karima
4	Crystal structure, spectroscopic and optical study of Iron Orthophosphate.
4	Fakhreddine Rachid
	Development of Metal Phosphates Nanoarchitecture Electrocatalyst for Hydrogen Evolution Reaction for Green
5	Hydrogen Production
	Barhoumi Soufiane
	Effects of Mn doping on the structural, linear and nonlinear optical properties of Gd2O3 nanoparticles
6	Hiti Awatif
7	Electrocatalysts Development for Oxygen Reduction Reaction in Phosphoric Acid Fuel Cell Technology
7	Khaoula Sarout
	Green synthesis of iron nanoparticles using Aloe vera plant extract, characterization and electrochemical
8	application
	Bendehhou Atif
	Investigated electrical and dielectric properties Znâ€"Al Layered Double Hydroxide through anionic exchange
9	with ethylenediaminetetraacetate
	Ben Zarouala Khadija
	Investigated the electrical and dielectric properties of carbonate intercalated Mg-Al Layered Double Hydroxides
10	with different Mg/Al molar ratios
	Ben Zarouala Khadija
	Investigation of the impact of erbium on the structural, physical, and optical properties of sol-gel synthesized
11	silicophosphate glasses for photonics applications
	Bouabdalli El Mahdi
10	Light Scattering by Particles of a Polygonal-Based in The WKB Approximation
12	Redouane Lamsoudi
1	

Salhi Imane Structural and Optical Analysis of Sm2Sr0.5Ba0.5Fe2O7 Synthesized by Sol-Gel Method: Potential for Optoelectronic and Nonlinear Optical Applications Fatima Nekkach Structural, electronic, and magnetic properties of ZnTe doped with transition metal Mn Brach Ahmed Study of Surface effects a ferrimagnetic system by Monte Carlo simulation Saadi Hasnae Synthesis and Characterization of Ceramic Piezoelectric Materials Misski Bouabid Synthesis and characterization of Co3-xMgx(PO4)2 catalysts for photocatalytic and electrochemical applications (decomposition of organic pollutants from industrial effluents and production of hydrogen) Mouakkar Anas Synthesis, Characterization and Biological Activity of Benzimidazole Derivatives Youssouff Fatima Synthesis, Characterization and Evaluation of the Anticancer Activity of a New Bispyrazolic Compound: 2-(5-Methyl-1H-Pyrazol-3-YI)) Acetylboranyl] Acetamide Abouelhaoul Elalami Synthesis, Characterization and Evaluation of the Anticancer Activity of New Bispyridone Derivatives Abouelhaoul Elalami Synthesis, Characterization, and Study of Dielectric, Electrical, Optical, and Mechanical Properties of Biocomposite Films Based on MCC Particle-Reinforced Polymer. Rhalmi Othmane A sustainable approach for the formulation of an environmentally Carbonous based Biochar derived from a plant waste extraction process as a potential low-cost Adsorbent destined for wastewater treatment.		
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14 Optoelectronic and Nonlinear Optical Applications Fatima Nekkach 15 Structural, electronic, and magnetic properties of ZnTe doped with transition metal Mn Brach Ahmed 16 Study of Surface effects a ferrimagnetic system by Monte Carlo simulation Saadi Hasnae 17 Synthesis and Characterization of Ceramic Piezoelectric Materials Misski Bouabid Synthesis and characterization of Co3-xMgx(PO4)2 catalysts for photocatalytic and electrochemical applications (decomposition of organic pollutants from industrial effluents and production of hydrogen) Mouakkar Anas 19 Synthesis, Characterization and Biological Activity of Benzimidazole Derivatives Youssoufi Fatima Synthesis, Characterization and Evaluation of the Anticancer Activity of a New Bispyrazolic Compound: 2-(5-Methyl-1H-Pyrazol-3-Yl)-N-[2-(5-Methyl-1H-Pyrazol-3-Yl)	13	Salhi Imane
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16 Study of Surface effects a ferrimagnetic system by Monte Carlo simulation Saadi Hasnae 17 Synthesis and Characterization of Ceramic Piezoelectric Materials Misski Bouabid Synthesis and characterization of Co3-xMgx(PO4)2 catalysts for photocatalytic and electrochemical applications (decomposition of organic pollutants from industrial effluents and production of hydrogen) Mouakkar Anas Synthesis, Characterization and Biological Activity of Benzimidazole Derivatives Youssoufi Fatima Synthesis, Characterization and Evaluation of the Anticancer Activity of a New Bispyrazolic Compound: 2-(5- Methyl-1H-Pyrazol-3-Y1)-N-[2-(5-Methyl-1H-Pyrazol-3-Y1)) Acetylboranyl] Acetamide Abouelhaoul Elalami Synthesis, Characterization and Evaluation of the Anticancer Activity of New Bispyridone Derivatives Abouelhaoul Elalami Synthesis, Characterization, and Study of Dielectric, Electrical, Optical, and Mechanical Properties of Biocomposite Films Based on MCC Particle-Reinforced Polymer. Rhalmi Othmane A sustainable approach for the formulation of an environmentally Carbonous based Biochar derived from a plant waste extraction process as a potential low-cost Adsorbent destined for wastewater treatment.		Fatima Nekkach
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A sustainable approach for the formulation of an environmentally Carbonous based Biochar derived from a plant waste extraction process as a potential low-cost Adsorbent destined for wastewater treatment.	22	Biocomposite Films Based on MCC Particle-Reinforced Polymer.
waste extraction process as a potential low-cost Adsorbent destined for wastewater treatment.		Rhalmi Othmane
		A sustainable approach for the formulation of an environmentally Carbonous based Biochar derived from a plant
Kellal Rachid	23	waste extraction process as a potential low-cost Adsorbent destined for wastewater treatment.
		Kellal Rachid

Wednesday, 29 May Excursion & Free time (9H)

Poster Session II

24	Green hydrogen production by watter splitting
24	Makboul Wissal
25	Hydrogen storage
25	Arharbi Amal
	Novel Biosorbent for Competitive Adsorption of Two Phenolic Pollutants: Analytical (HPLC), Statistical
26	(Experimental Design), and Theoretical (DFT) Investigations
	Bouzid Taoufiq
27	Reaction of N-alkylation by Calcined Red Algae (CRA) doped with K2CO3 (K2CO3@CRA) as solid catalyst
21	Driss Ouzebla
	An Amended Indirect Adjustable Step Size InC MPPT Control Strategy Using PID Controller for PV System
28	Applications
	Chellakhi Abdelkhalek

29	Application and evaluation of solar energy in seawater desalination
	Boudraham Salima
30	Coupled heat transfers by conduction, convection and radiation in an inclined square cavity
30	Baalla Ayoube
2.1	Developing A New Model For Battery Soc Prediction Considering Temperature Hysteresis.
31	Tabine Abdelhakim
32	Environmental Impacts of Oulad Berjal Landfill: Contamination of Groundwater and Soil Pollution: Salhi Rhizlane
22	Innovative System for Harvesting Tidal Energy: Simulation and Experimental Results
33	Sayaghi Chouaib
2.4	Modeling a Thermoelectric Cooling System of a Photovoltaic Panel using Thermoelectric effects
34	Kandry Hafsa
35	Modeling a Two-Terminal Monolithic Perovskite/CISe Tandem Solar Cell: A Computational Approach
33	Moujoud Salaheddine
36	Numerical investigation of Photovoltaic system integrated with Thermoelectric generator
30	Amallal Fatima
37	Numerical study of the novel inorganic InSnCl3 based perovskite solar cell using SCAPS-1D device simulation
37	Garmim Taoufik
38	Optimizing Photovoltaic/Thermal Efficiency: Integrating a Half-Circle Profile Tube for Enhanced Heat Dissipation
36	Riad Ayoub
	Temperature and current amplitude effects on the aging of lithium-ion batteries: implications for performance and
39	lifespan
	Tabine Abdelhakim
40	The study of the regeneration of deactivated catalysts has been used in the production of sulfuric acid
40	El Hasbaoui Noureddine
41	Valorization of Sludge through Solar Distillation: Design and Implementation
41	Rezki Mohammed
42	WAVE ENERGY CONVERTER
42	Abdellatif Abkhair
42	Doping and Structure-Promoted destabilization of NaBH4 complex Hydrid
43	Ikram Belkoufa
44	Investigating the Reaction of (R)-Limonene with S-Thioacids Using Molecular Electron Density Theory
44	Bendaoud Ahmed
45	Design and implementation of a novel adaptive MPPT algorithm for solar photovoltaic systems
	Hamid Belghiti