

International Conference on Energy, Materials and Environmental Science ICEMES 2023 PROGRAM

July 20, 2023

09 : 00 - 9 : 30	Welcome and Opening Remarks		
	Opening Speech		
	Mr. Houssine AZEDDOUG, President of University Hassan II (UH2C)		
	Mr. Omar SADDIQI, Dean of Faculty of Sciences Ain Chock (FSAC)		
	Mr. Rachid ESSAMOUD, Director of Higher School of Technology (ESTC)		
	Mr. Mohamed LAHLOU, President of ESITH		
9 : 30 – 11 : 00	Mr Lhaj El Hachemi OMARI, Organizing committee, FSAC (UH2C)		
	Mr Mohammed CHAFI, Organizing committee, ESTC (UH2C)		
	Amphi I		
	Speaker 1 : Olivier Mentré		
	Locking any Magnetization by freezing of Magnetic Domains in a transient Soft-to-“Super Hard” Magnet		
	Speaker 2 : Pr. Najeh Thabet Mliki		
11 : 00 – 11 : 30	Multiscale study of extrinsic multiferroic composite-like microstructures		
	Chairs : N. Kamil, O. Cherkaoui, C. Jama		
	Coffee break + Poster S I		
	Oral S I		
	Amphi I : Materials	Amphi II : Environment	Amphi III : Energy
	Chairmans M. Abid, Z. Yamken, F. Fraija	Chairmans M. Tahiri, S. Elghachtouli, Y. Abouliatim	Chairmans A. Eddiai, M. El Mansouri, M. Ediri
11 : 30 - 11 : 45	Azaryouh Leila ID 478032 Synthesis of hydrochar from olive mill waste via hydrothermal Treatment	Sandaoui Meriem ID 481592 Application des ultrasons à basse fréquence dans le traitement d'une solution synthétique d'un antibiotique	Said Elouahbi ID 476097 The magnetization behavior at low temperatures in amorphous Eu80Au20 alloy
11 : 45 - 12 : 00	Bouhmouche Ayoub ID 476171 Strain engineering on the optoelectronic properties of CsPbI3 halide perovskites: Ab-initi Investigation	Goudali Lina ID 483914 Comparison characterization of pure commercialized and extracted whey protein using different techniques	Oudaoui Kenza ID 479160 Numerical analysis of the thermal behaviour of a solar heat exchanger using multiple phase change materials
12 : 00- 12 : 15	Rhrissi Ilyass ID 478825 Tailoring Gas Sensing Properties of WS2 Monolayer via Nb and Co Doping for highly Sensitive and Selective Detection of HCN and H2S Gases	El Qoraraychy Ikram ID 485659 Contamination of heavy metals in Blue crabs (Callinectes Sapidus) in Gharb Region, Morocco	Lakhoul Mohamed ID 481871 Analysis and comparison of two 9-level inverters Cross T-Type PWM and T-Type PWM
12 : 15 - 12 : 30	Akabli Hassan ID 482042 A particular behavior of levels Energy evolution and theoretical study of the quantum probability distribution in GaAs/AlGaAs asymmetric stepped semiconductor quantum wells for terahertz optoelectronics	Jari Yassine ID 481323 Efficient adsorption of bisphenol A from aqueous solutions using hierarchical porous activated biocarbon from pine cones: isothermal and kinetic studies	Bousdra Hamza ID 476788 Numerical modeling of electronic and electrical characteristics of InGaN/GaN multiple quantum well solar cells under polarization effects
12 : 30 - 12 : 45	Ben Abbou Somaya ID 487611 Comparison of the Compressive	Yassine Slek ID 480239	Hariss Manal ID 481963

	Strength of High-Performance Concrete , made from Recycled Materials.	Elaboration et caractérisation d'oxyde de manganèse fonctionnalisé pour l'élimination du chrome hexavalent	Numerical Study of The Melting Process of Phase Change Material Inside a Latent Heat Storage Unit Partially Filled with A Metal Matrix
12 : 45 - 13 : 00	Wafaa Salhi ID 482027 Detailed analysis of the intersubband absorption coefficient in a GaAs quantum well for a non linear application	Aboulfadile Mohamed Amine ID 481827 Étude de la dégradation ultrasonore d'un colorant azoïque en milieu aqueux.	Nait Alla Abderrahman ID 487256 Effect of salinity on the evaporation of a liquid film in the presence of nanoparticles
13 : 00 - 13 : 15	Rakcho Yassine ID 483992 Effect of Firing Temperature on Porous Ceramic Properties Fabricated by Moroccan Red Clay and Oil Shale	Tair Melaid ID 479282 First principles study of structural, thermodynamic, and electronic properties of perovskite type KMgH3 for hydrogen storage applications	Douhi Said ID 483759 Design and Simulation of a compact Low-Profile All-Textile UWB Antenna with Metamaterial for Enhanced RF-Energy Harvesting in IoT Applications
13 : 15 - 13 : 30	Sadik Mohamed ID 481718 Effect of lanthanum substitution and annealing temperature on the structural properties of M-type calcium hexaferrite	Diagne Moulaye ID 479276 External quantum efficiency of a solar cell ZnO/CdTe: Effects of excitons by the method of calculating the dielectric function.	Ait Salah Fatima Ezzahra ID 481970 Optimizing the Extraction Procedure for Power Law Model of Photovoltaic Panels using a Genetic Algorithm
13 : 30 - 14 : 30	Lunch break		
15 : 00 - 16 : 30	Amphi I : Speaker 3 : Pr. Patricia Dolez <i>Graphene-based end-of-life sensor for fire-protective fabrics</i> Speaker 4 : Pr. Hoummada Abdeslam Speaker 5 : Pr. François Boussu Chairs : H. Lassri, D. Benchekroun, A. Tizliouine, M. Sajieddine		
16 : 30 - 17 : 00	Coffee break + Poster S I		
Oral S II			
	Amphi I : Materials	Amphi II : Environment	Amphi III : Energy
	Chairmans S. Derkaoui, J. Louafi, FZ. Rachid	Chairmans S. Tighadouini, A. El Halil, N. Barka	Chairmans T. Mouhib, Y. Mejdoub, A. Gouni
17 : 00 - 17 : 15	Laihemdi Fathia ID 487212 Experimental and theoretical investigation of the inhibitory effect of rosemary and eucalyptus extracted oils on the corrosion of an aluminum alloy in a 1M hydrochloric acid solution	Oufkir Jamal ID 482025 Highly Efficient Conversion of Plastic Waste into Fuel via Thermal Cracking: Thermo-Structural Analysis of the Pyrolysis Reactor and Characterization of the Final Product	Konan Jean Armand Yao ID 482063 Investigation of the structural, morphological, surface, optical and electrochemical properties of sol-gel deposited glass/TiO2:N and ITO/TiO2:N thin films for photovoltaic cell enhancement
17 : 15 - 17 : 30	Zhouiri Oumaima ID 476692 Effect of solar radiation on the chemical structure of high density polyethylene material	Hachimy Fatima-Zahra ID 482058 Impact of Using a Backward step on the drag reduction of an Ahmed Body Model	Bouchta Jaouad ID 487287 L'influence des paramètres interne et externe de fonctionnement d'un capteur PV/T
17 : 30 - 17 : 45	El Ghandouri Abdelhak ID 479283 Effect of sintering temperature on structural and dielectric properties of BaTiO3-(Ba0.90Sr0.10)TiO3 ceramics synthesized by sol-gel method	Lahkale Redouane ID 489724 Impedance Spectroscopy of solids for monitoring the adsorption kinetic of the chromate ions from an aqueous solution by a synthesized clay	Bouchaala Ahmed ID 483726 Optimization of moisture removal of a desiccant wheel used in a desiccant air-conditioning system based on the PSO algorithm
17 : 45- 18 : 00	Azdine Ilhame ID 483021 Etude de la contrainte de cisaillement dans l'interface acier-coulis de ciment	Nadim Abdelouahab ID 483423 Recycling of brominated Poly (Acrylonitrile Butadiene Styrene) (ABS) from WEEE	Amou Marius Armand ID 482051 Deposition of thin layers of CZTS by sol-gel route via spin-coating

18 : 00 – 18 : 15	Idhamou Lahoucine ID 482372 Evaluation de temps d'initiation de la corrosion des armatures en béton armé	Akoulih Meryem ID 482813 New Method for Ultrasound Assisted Electrocoagulation for Azo Dye Acid Red 97 Discoloration Rate Optimization using Deep Neural Networks	Kouakou Koffi ID 482072 Improving Silicon solar cell performance by forced cooling using numerical neural network modeling.
18 : 15 - 18 : 30	Idbenjadi Fatima Ezzahra ID 483748 Elaboration de matériau réfractaire "cordierite"	Belhadi Mimoun ID 479151 A new pyrazole derivative synthesized as an efficient corrosion inhibitor for carbon steel in acid medium: Experimental studie	Beh Mondjou Georges Constant ID 482053 Optical and structural properties of CZTSe thin films produced by electrodeposition
18 : 30 - 18 : 45	Mabchour Ghizlane ID 477259 A novel metal-dielectric grating system for efficient radiative cooling operation	Safia DRISSI ID 478824 Growth of the next generation Cu ₂ Fe _{0.25} Co _{0.75} SnS ₄ thin films by sol-gel metho	Abdelrhafour Soumia ID 478953 Treatment of olive oil wastewater: Comparative study of the adsorption of polyphenols on two clays
18 : 45 - 19 : 00	Belaoudi Sanaa ID 478817 Theory of an oscillating water column	El Ghmari Majda ID 478698 First-principles prediction of the nitrides-based structural, electronic and optical properties: GaN, InN,...	Labihi Salesabil ID 487223 Preparation of PZT and GO-Incorporated PVDF-HFP Composite via Solution Mixing Method for Enhanced Energy Recover

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8 : 30 – 10 : 00	Amphi I : Speaker 6 : Pr. Jama Charafeddine <i>Cold plasma processes for surface modification of Materials</i> Speaker 7 : Pr. Dhahri Essebti <i>Réfrigération magnifique à base de composites perovskites</i> Chairs : R. Moubah, M. Abid, N. Mliki			
10 : 00 – 10 : 30	Coffee break + Poster S II			
10 : 30 – 11 : 30	Amphi I : Speaker 8 : Hlil El Kebir <i>Quantum efficiency QE, open circuit voltage V_{oc}, short circuit current J_{sc}, and electrical power P for organic-inorganic photovoltaic material from ab DFT calculations</i> Speaker 9 : Fouad Amraoui <i>La chronologie de la gestion de l'eau au Maroc depuis l'indépendance</i> Chairs : M. Chiban, M. Chafi, O. Mentré			
	Amphi I : Materials	Amphi IV : Materials	Amphi II : Environment	Amphi III : Energy
	Chairmans C. Jama, A Alkalesh, I. Mallek-Zouari	Chairmans A. Samdi, M. Benchikhi, K. Lahyani	Chairmans M. Chafi, S. Majid, F. Amraoui	Chairmans M. El Alami, Y. Arba, A. Gounni
11 : 00 – 11 : 30	El Quaoubi Soukaina ID 481949 First-principles calculations of spinel structure as material for zinc-ion batteries	Lekdadri Abdelmajid ID 478012 Coercivity and magnetic hysteresis in transition metal multilayers	El Ghmari Majda ID 478698 First-principles prediction of the nitrides-based structural, electronic and optical properties: GaN, InN,...	Chouiyakh Hajar ID 483797 Impact localization in Aluminium plates using guided waves

11 : 30 - 11 : 45	Bahja Bouchra ID 478198 Structural study of alkali-activated metakaolin mortars and the effect of reinforcement with natural fibers on mechanical properties	El Bahi Amine ID 483984 Recent development in data science to materials research: multi-scale modeling and prediction of mechanical properties of composite material	Erraji Abdellah ID 481202 Lead-Free Cs2AgBiBr6 Double Perovskite Solar Cells: Performance Analysis with SCAPS-1D and Potential for Environmentally Friendly Photovoltaic	Baaddi Malika ID 481550 Study of the hydrogen storage properties of a perovskite material under the effect of deformation through first principles method
11 : 45 - 12 : 15	El Hamouchi Nisrine ID 478749 Impact of lead doping on the magnetic properties of manganite-based materials	El Hamri Anas ID 479361 Study of the effect of cedar sawdust content on physical and mechanical properties of cement boards.	El Bouchtaoui Fatima-Zahra ID 479354 A facile and green lignin modification for slow-release fertilizers production	Said Bouchta ID 487291 Study of heat and mass transfer in a solar dryer process
12 : 15 - 12 : 30	Karafi Toufik ID 475069 Effect of dislocation density on hardening of nanostructured tungsten-rhenium: a molecular dynamics study	Baiboud Mohamed ID 483991 CdTe doped with Vanadium	Boudounit Hicham ID 476177 Structural Analysis of Offshore Wind Turbine Composite Blade Using Computational Fluid Dynamics	Ghadhi Ahmed ID 485774 Performance assessment of a SWRO train equipped with four types of energy recovery devices
12 : 30 - 12 : 45	Konan Fransisco ID 482036 Zinc oxide texture-(002) nanomaterials prepared by sol-gel process via Taguchi method L9 for photovoltaic application	Jelloul Fatiha ID 484818 L'asphéricité de la lentille souple et le freinage de la myopie	Hammoudan Imad ID 487251 QSAR modeling of pyrazoline derivative as carbonic anhydrase inhibitor	Jaoide Essaid ID 479187 Design and loss assessment of the qZSI inverter used for PV power systems
12 : 45 - 13 : 00	Boutaldat Meriem ID 487203 Simulation study of a triboelectric nanogenerator for effective energy harvesting	El Idrissi Ramzi ID 481876 Fault Diagnosis using Bayesian Networks for a Single-Phase Inverter based on MOSFET Semiconductors	Mounich Kamilia ID 487255 Low-Cost Potentiostat for Advanced Material Analysis: Study, Design, and Implementation	Said Amrane ID 482782 Predictive maintenance for monitoring solenoid valve parameters based on machine learning
13 : 00 - 13 : 15	El Hafi Tarik ID 481219 Investigation of Microstructural Properties of Pure Silver Metallic Glass Using Molecular Dynamics Simulation at Varied Cooling Rates	Salmi El Mehdi ID 480780 Enhancing Efficiency and Durability of Nickel Sulfide Catalysts: Exploring Hierarchically porous structures for Methanol Oxidation Reaction	KHAOULA ADELI ID 482022 Unleashing the Green Energy Revolution: Powering the Future with Sustainable Ammonia Production and Endless Growth Prospects	Ahmed Moutabir ID 481844 Control and Energy Management of a Hybrid Fuel Cell and Supercapacitors System by Combining the Backstepping Approach and the Flatness Concept
13 : 15 - 13 : 30	El Batal Khadija ID 477585 Wearable microstrip patch Antenna with Low SAR for WBAN Applications	Ezairi Sara ID 482254 structural and optical properties of Ce-doped Ti	Khadija Taroual ID 482016 Modeling and simulation of a graphene-based nanofil	MOHAMED OUHMAD ID 487291 Study of heat and mass transfer in a solar dryer process

13 : 30 - 14 : 30	Lunch break
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15 : 00 - 16 : 00	Amphi I : Speaker 10 : Pr. Abdellah Elkelsh <i>3 zeros project, to achieve the UN goals in solving, Water, Energy and Environment problems.</i> Speaker 11 : Karim Elyounsi <i>Representant de Lydec</i> Chairs : A. Nait Alla, F.Amraoui, L. H. Omari
16 : 00 - 16 : 30	Coffee break + Poster S II

Oral S II	
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Amphi I : Materials	Amphi IV : Materials	Amphi II : Environment	Amphi III : Energy
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	Chairmans F. Fraija, Z. Yamkan, F. Lmai	Chairmans H. Lassri, A. Jabar, A. Tizliouine	Chairmans S. Krimi, H. Jounaid, Y. Lghazi	Chairmans S. Bouchta, E. Hlil, A. Nait Alla
16 : 30 – 17 : 00	Speaker 12: Pr. Heba A. Aboukhousa <i>Promoting Climate Action through Youth Empowerment and Environmental Education</i>	Speaker 13: Pr. Piere Lachkar <i>Advanced technologies for measurements of energy material properties</i>	Speaker 14: Pr. Gianluca Viscusi <i>Hemp fibers modified with graphite oxide as green and efficient solution for water remediation</i>	Speaker 15: Pr. Ikbel Mallek Zouari <i>Synthesis and characterization of multiferroic materials for the environment</i>
17 : 00 – 17 : 30	Bassou Abdellah ID 482059 Modeling approach of the dielectric constant and a determination of resonances frequencies from reflectance and transmittance measurements in e-GaSe	Marwane Lahssini Speaker Déposition à fort rendement de Zinc-Nickel dans un système alcalin à tonneau SLOTOLOY ZN210VX.	Gugouch Fatima ID 479286 Comparison of the thermal behavior of HDPE thermoplastic polymer with CPVC	Khaddoudi Idris ID 481938 Photocatalytic Removal of Rhodamine B from Aqueous Solutions Using titania-fluorapatite composite
17 : 30 – 17 : 45	Tariq Soufiane ID 482048 Structural and Optoelectronic Properties of New Double Perovskite Na3InI6: ab-initio calculation	Bouchaâla Kenza ID 481998 Analytical and numerical investigation of spring back angle of rotary bent tube	Rachid Chami ID 470979 First principles insight of double perovskite materials, AA'BB'O6, as photocatalysis for water splitting	Achir Sara ID 478799 Dosimetric analysis of types of 6 MV photon beams generated by Varian TrueBeam
17 : 45 – 18 : 00	Bahja Bouchra ID 478198 Structural study of alkali-activated metakaolin mortars and the effect of reinforcement with natural fibers on mechanical properties	Najem Adil ID 481340 PMSM Speed Control Study Using Two Artificial Intelligence Methods: ANFIS and Reinforcement Learning (RL)	Rachid Fatimzahra ID 481171 Structural, magnetic and magnetocaloric properties of SrGd2O4	Zahraoui Yassine ID 479284 Power Quality Improvement using a Robust DQ- Controlled Three- Phase SAPF
18 : 00 - 18 :15	Kellal Rachid ID 481634 Electrochemical assessment for the corrosion inhibition control of carbon steel in acidic medium implementing a novel environmental Moroccan plant extract.	Ait El Caid Zakaria ID 480848 Valorisation d'un principe actif issu d'une plante naturelle pour la protection de l'acier au carbone contre la corrosion en milieux acides.	Machrouhi Aicha ID 483793 Effective removal of Synthetic dyes by activated carbon from biomass: Experimental study, molecular dynamic simulation and DFT calculations	Agrouaz Younes ID 478643 Solar cooling system: From an energetic analysis to a financial optimization: Africa as case study.
18 :15 - 18 : 30	Dahbi Soukaina ID 480624 Novel screen-printed electrochemical sensor based on conductive ink to detect ascorbic aci	El Oujhi Ouafa ID 478809 Investigation of the structural, magnetic and magnetocaloric properties of the double perovskite HoRCoMnO6 (R= Ho, Gd, Eu, Nd)	El Rharib Meryem ID 480844 Adsorption of Industrial Dye by Natural Clay: A Promising Approach for Wastewater Treatment	Jamaa Abdelkbir ID 478827 Impact of climatic conditions on a photovoltaic panel and the effect of shading with different configuration
18 : 30 – 19 :00	Official closing / Round Table			

Posters	
Name	Title
Assal Mohamed ID 487445	A New Insulating Material Based On Xerogel As A Charge For Polyester Fabric
Morchid Fatima Ezzahrae ID 483869	Development and Characterization of Wood-Polyvinyl Chloride (PVC) Composite for Industrial Applications
Moukhliasse Chaimae ID 478899	Effect of mechanical and thermal treatment on structural proprieties of Clays
Lmai Fatima ID 481986	Electric field mapping by Pockels effect and I(V) characteristic of CdTe nuclear detectors by different Pt contact deposition
Atif Mhamed ID 480034	Elucidating the Selectivities and the Mechanism of [4+2] cycloaddition reaction between (E)-N-((dimethylamino)methylene)benzothioamide (1) and (S)-3-acryloyl-4-phenyloxazolidin-2-one (2)
Dahbi Soukaina ID 480624	New screen-printed electrochemical sensor based on conductive ink applied to textile for the detection of ascorbic acid.
Benzennou Fatimazahra ID 478968	Improvement on structural properties of electric arc furnace slag and its physical properties
Khannous Fatima ID 478748	Propagation of a beam laser in oceanic turbulence: the wave structure function in oceanic turbulence
Ourmiche Atmane ID 484140	Spent Coffee Grounds as an Eco-friendly Filler in Urea Formaldehyde Adhesive for Plywood Manufacturing
Elkhoud Soukaina ID 482052	Structural and Morphological Characterization of Co-Doped Strontium Hexaferrite $\text{Sr}_{0.54}\text{Ca}_{0.56}\text{Fe}_{6.5}\text{Ni}_x\text{Al}_{5.5}\text{O}_{19}$ Synthesized via Sol-Gel Method
Benali Hajar ID 478798	Synthesis And Characterization Of Al Doped ZnO Thin-Films For Photovoltaic Applications
Naim Chaimae ID 479020	Valuation Of Moroccan Clay For The Elaboration Of Geopolymer Materials
Salama Nora ID 489199	Waste Paper as an Eco-friendly Filler in Melamine-Urea Formaldehyde Adhesive for Plywood Manufacturing
Slek Yassine ID 481316	Electrochemical Synthesis Of Manganese Oxide Thin Films For Cadmium Removal And "Calcon" Dye Degradation
Omari Mohamed ID 479281	Evaluation of the Corrosion Inhibiting Efficiency of organic inhibitors against Corrosion of iron in Hydrochloric Acid Medium: A DFT Study
Benaddi El Houssaine ID 479193	L'optimisation des conditions expérimentales d'élimination d'un polluant organique (colorant de Bleu de méthylène,) par une poudre (P-TFB), À l'état brut avec moins d'énergie et un faible coût dans le milieu aquatique
Bachir Imane ID 481907	Theoretical investigation of the effect of 2,5-bis(2-pyridyl)-1,3,4-oxadiazole derivatives on the corrosion of mild steel in acidic media
Elhafidi Elmokhtar ID 470733	Desalination of seawater by single stage distillation powered by renewable energy
Chargui Taoufik ID 481979	Improving Efficiency of $\text{Cu}_2\text{CoSnS}_4$ Solar Cells Using an HTL layer: a numerical study
El Rharib Abdelkhalek ID 479234	Simulating the Performance of $\text{A}_{0.3}\text{Ga}_{0.7}\text{As}$ ($\text{A}=\text{Al}/\text{In}$) Solar Cells: A DFT Study of a Good Absorber
Idbenali Mohamed ID 477849	Thermodynamic investigation of the NaBr-RbBr system
Youssef TABRAMET ID 487289	Successive evaporation and condensation of a liquid film using the VOF method