



*International Conference on Advanced
Materials for Photonics, Sensing and
Energy AppliCations
March, 28, 29, 30, 2017
Agadir -Morocco*

*The Moroccan Association of Physics of Advanced
Materials and Their Applications
organizes*

**The International conference on Advanced
Materials for Photonics, Sensing and
Energy AppliCations
(AMPSECA' 2017)**

PROGRAM

*March 28, 29, 30, 2017
Agadir, Morocco*



Program

The International conference on Advanced Materials for Photonics, Sensing and Energy Applications (AMPSECA' 2017)

March 28, 29, 30, 2017, Agadir, Morocco

A Conference on Advanced Materials, Emerging and Transferring New Technologies

Organized by Moroccan Society of Advanced Materials Physics and their Applications (SMPM2A)

Partnerships

Chouaib Doukkali University, El Jadida, Morocco

University of Angers, Angers, France

Hasssan II University, Casablanca, Morocco

Ibn Zohr University, Agadir, Morocco

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We would like to acknowledge the financial support, which was given to the conference by number of organizations.



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Dear colleagues and friends

It is a great pleasure and privilege to welcome all of you for the International Conference on Advanced Materials for Photonics, Sensing and Energy Applications AMPSECA'2017. The 2nd AMPSECA'2017 is a sequel to the previous highly successful International Conference on Advanced Materials for Photonics, Sensing and Energy Applications held on December 5-7, 2012 in El Jadida, Morocco (<http://www.smpm2a.org/ampseca2012/>). This event will be organized in the most beautiful city of Morocco - Agadir. This International Conference on Advanced Materials for Photonics, Sensing and Energy Applications brings together leading researchers from different disciplines on one platform. This large gathering of academic and industrial researchers will provide in depth information on materials and their photonics, sensing and energy applications. This event will have emphasis on energy related issues and will bring eminent scientists and program managers from various funding agencies in the form of plenary speakers and panel discussions. The idea of an international conference devoted to Advanced Materials for Photonics, Sensing and Energy Applications arose in December 2010 during the interesting discussion between Prof. B. Sahraoui, Prof. Y. Boughaleb and Dr. A. Hajjaji about the possibilities of creation a new space of scientific interaction for exchange and collaboration between the two shores of the Mediterranean. At that time with several Moroccan groups from universities and research institutes we decided to create "The Moroccan Association of Physics of Advanced Materials and their Applications" (l'Association Marocaine de Physique des Matériaux Avancés et de leurs Applications (SMPM2A, <http://www.smpm2a.org/>) who is co-organizer of the AMPSECA'2017 event.

AMPSECA'2017 provide a unique opportunity for discussions on the most recent developments and future perspectives in the field of Advanced Materials for Photonics, Sensing and Energy Applications, including biophotonics, by leading Moroccans Europeans and international researchers. This meeting, without doubt, will stimulate better contacts between PhD students, junior and senior scientists from all over the world and create new space and new opportunities for reinforcing or starting new international and multilateral collaborations.

We would like to acknowledge the financial support, which was given to the conference by number of organizations.

We hope that all participants will find that the program of the conference is interesting and lead to promising, and creative scientific discussions helping creation of new friendships and new collaborations starting here in Agadir.

This conference consists of 6 plenary lectures, 27 invited lectures and 92 oral contributions and 241 posters in the following sections, Molecular photonics, biophotonics, nonlinear optical materials energy harvesting, Advanced Materials Science and Engineering for optoelectronics applications.

We are very happy to welcome all of you in our beautiful city and we wish you a nice stay in Agadir.

Chair

Professor Bouchta Sahraoui, University of Angers, France

Co-Chairs

Professor Abdelwohaed Hajjaji, University Chouaib Doukkali, El Jadida, Morocco)

Professor Youssef. El Kouari (University Hassan II, Casablanca, Morocco)

Professor M. Monkade (University Chouaib Doukkali, El Jadida, Morocco)

AMPSECA 2017 PROGRAM

Monday 27-03

15h00 – 18h00

Registration

18h00 – 20h00

Welcome Reception

Tuesday 28-03

8h00 – 12h00

Registration

8h15 – 8h45

Opening Ceremony

8h45 – 10h00

Plenary Lecture, chair : Yahia Boughaleb, Marek Samoc and Bouchta Sahraoui

8h45.Tue «Nano structured hybrid materials for photonics and sensing : Impact on Energy and healthcare»

Paras Prasad, (University at Buffalo, USA)

9h30.Tue «Two-photon absorbing probes for NIR biophotonics»

Chantal Andraud (ENS, Lyon, Site MONOD, France)

10h00 – 10h40

Invited Lectures

Session 1

Chair : Anna Zawadzka

10h00.Tue «Modeling of Rare Earth-doped Silicate Glasses: Codoping Effects on the Luminescent Sites Structures and Formation of Dielectrics Nanoparticles»

Stéphane Chaussement (University of d'Angers, Angers France)

10h20.Tue «Droplets based microfluidics and microsolidics: new tools to manipulate liquids, solids and light at the microscale»

Abdel I. EL ABED (ENS-Cachan, Cachan, France)

Session2

Chair : Arbaoui Abdezzahid

10h00.Tue «Structure and dynamics properties of key materials for photovoltaic energy conversion: the hybrid halogenated perovskites»
David Djurado (INAC/SPRAM/CEA, Grenoble, France)

10h20.Tue «Chitosan and its derivatives for electrochemical devices»

Tan Winie (Faculty of Applied Sciences, Universiti Teknologi MARA, Selangor, Malaysia)

10h40 – 11h10

Coffee Break

11h10 – 11h50

Invited Lectures

Session 1

Chair : Abdelkrim El Ghayoury

11h10.Tue «Switchable polynuclear systems based on triazole ligands»

Triki Smail (Université de Brest, France)

11h30.Tue «Spatio-temporal studies of spin-crossover materials: watching and simulating phase transition dynamics»

Kamel Boukheddaden (Paris Versailles Saint Quentin)

Session2

Chair : Khalil Benkhoulja

11h10.Tue «Highly sensitive FET sensors based on organic dielectrics»

Jean-Manuel Raimundo (Aix Marseille University, CINAM UMR CNRS)

11h30.Tue «Design of efficient nickelate-based cathodes for solid oxide fuel cells»

Elisabeth Djurado (ENSEEG-INPG/UJF/CNRS, France)

12h00 – 14h00

Lunch

14h00 – 14h30

Plenary Lecture, Chair: Chantal Andraud

14h00.Tue «Polypyridyl ruthenium complexes: versatile tools for linear and nonlinear optics»

Jean-Luc Fillaut (UMR 6226 CNRS Rennes University)

14h30 – 16h00

Invited Lectures

Session 1

Chair : Abdel I. El Abed

14h30.Tue «Spin crossover nanomaterials for temperature, pressure and fluorescence sensors»

Yann Garcia (l'Université catholique de Louvain)

14h50.Tue «Metal Induced Modulation of Electronic & Optical properties of Multifunctional Ligands»

Abdelkrim El Ghayoury (University of Angers, Angers France)

Session2

Chair : Hajjaji Abdellwohaed

14h30.Tue «Preparation and characterization of metallic oxide nanostructures and nanoparticles for energy and environment»

Khalid Nouneh (LPMC, University Ibn Tofail Kénitra)

14h50.Tue «Electroactive naphthalene bisimide derivatives. Synthesis, preparation and applications»

Malgorzata Zagorska (Warsaw University of technology)

Oral Lectures

Session 1

15h10.Tue «Physical properties and spectroscopic studies of Ho³⁺ and Ho³⁺/Yb³⁺ doped fluorophosphate glasses»

O. Bentouila, F. Rehouma, K. Eddine Aiadi, M. Poulain

15h20.Tue «Temperature dependence of the electro-Optic coefficient r₃₃ and constante diélectrique ε₃₃ in BaTiO₃: Rh»

S. Bahsine, A. Maillard, G. Kugel

15h30.Tue «Investigation of Structural and Optical Properties of Organic Photovoltaic Thin Films Based on MEH-PPV/P3HT fullerene blend»

I. Anefnaf, N. Benhaddou, S. Aazou, M. Abd-Lefdil, Z. Sekkat

15h40.Tue «Photoassisted Holography in Azo Dye Doped Polymer Films»

A. Rahmouni, Y. Bougdid, S. Moujdi, D. V. Nesterenko, Z. Sekkat

15h50.Tue «Enhancing photocatalytic activity of ZnO-ZnAl₂O₄ nanoparticles derived from Zn/Al layered double hydroxide»

A. Elhalil, F.Z. Mahjoubi, H. Tounsadi, M. Sadiq, M. Abdennouri, S. Qourzal, N. Barka

Session2

15h10.Tue «Optical and electrical properties of spinel Mg cobalt oxide(Mg x Co 3-x O 4) thin films»

A. Louardi, A. El Bachiri, L. Soussi, O. Karzazi, A. Rmili, T. Chtouki, M. Khaidar, M. Monkade, B. Elidrissi, H. Erguig

15h20.Tue «Geometrical and material lay-up optimization of a composite-floating wind turbine blade»

O. Shah, M. Tarfaoui

15h30.Tue «Boosting the performance of solar cells with intermediate band absorbers. The case of ZnTe:O»

O. Skhouni, A. El Manouni, B. Mari

15h40.Tue «Spectral response of optoelectronic devices to solar radiation»

A. Albino, D. Bortoli, M. Tlemçani, A. Joyce

15h50.Tue «Towards a better exploitation of the solar deposit in the Saharan cities - case of Biskra city – Algeria»

D. Boutheina, N. Zemmouri

16h00 – 16h30

Coffee Break

16h30 – 18h00

Poster Session

9h00 – 10h00

Plenary Lecture, chair : Jean-Luc Fillaut

9h00.Wed «Generation of Parametric Light : from the study of crystals to the implementation of devices»
 Patricia Segonds (NEEL Institute – CNRS-Grenoble Alpes University (UGA), Grenoble, France)
 9h30.Wed «Towards more efficient materials for nonlinear absorption and nonlinear refraction applications»
 Marek Samoc (Wroclaw University of Technology)

10h00 – 10h40

Invited Lectures

10h00.Wed «Graphene-based saturable absorber for fiber laser applications»
 François Sanchez (University of d'Angers, Angers France)

10h20.Wed «Promoting Spontaneous Second Harmonic Generation through Organogelation»
 David Canevet (Moltech-Anjou, UMR CNRS 6200, Angers France)

Session2

Chair : Asli Karakas

10h00.Wed «Photovoltaic materials simulations»
 Robert Warmbier (University of the Witwatersand, South Africa)

10h20.Wed «Plasmonic Dye-sensitized Solar Cell»
 Abdul Karim Arof (Centre for Ionics University of Malaya, Kuala Lumpur, Malaysia)

10h40 – 11h10

Coffee Break

11h10 – 11h50

Invited Lectures

Session 1

Chair :Stéphane Chaussecent

11h10.Wed «Design of New Advanced Materials containing Rare Earth Ions»
 Lada Puntus (Laboratory of Molecular Nanoelectronics Russian Academy of Sciences, Russia)

11h30.Wed «Single-Walled Carbon Nanotubes and Their Application in Nonlinear Optics»
 Anna Zawadzka (UMK, Torun, Poland)

Session2

Chair : Youssef El Kouari

11h10.Wed «Photovoltaic and thermoelectric proprieties of nanomaterials improved by using ab initio calculations»
 El-Kebir Hlil (University of Joseph Fourier, Grenoble, France)

11h30.Wed «Functionalized Nanomaterials Assembly as Hybrid Materials for Electrochemical Nanosensing Applications»
 Abdelhafed Taleb (Chimie ParisTech-CNRS, Institut de Recherche de Chimie, Paris, France)

12h00 – 14h00

Lunch

14h00 – 14h30

Plenary Lecture Chair: Hajjaji Abdelwohaed

14h00.Wed «Energy harvesting for self-powered systems: future reality or chimerical dream?»
 Mickaël Lallart (Laboratory of Electrical Engineering and Ferroelectricity (LGEF) of INSA Lyon)

14h30 – 16h00

Invited Lectures

Session 1

Chair :Przemyslaw Płóciennik

14h30.Wed «Laser Induced Birefringence in the Oligoetheracrylate hotopolymer Films»
 Katarzyna Ozga (Czestochowa University of technology, Poland)

14h50.Wed «Ab initio quantum mechanical calculations on third-order optical nonlinearity and two-photon absorption of branched oligothiénylenevinylene»
 Asli Karakas (Selcuk University, Department of Physics, Konya, Turkey)

Oral Lectures

15h10.Wed «Nonlinear Optical Properties of Azo-based new Organometallic Ruthenium and Iron Complexes»
 S. Taboukhat, Bohdan Kulyk, Jean-Luc Fillaut, Yahia Boughaleb, Bouchta Sahraoui

15h20.Wed «Bands structure and electro-optical characteristics of a semimetallic InAs/GaSb type II superlattice: Application as a terahertz infrared detector»
 A. Boutramine, A. nafidi, Driss Barkissy, N. Benchtaber

15h30.Wed «New Azo dye- based colorimetric sensor for Cu²⁺»
 S. Fettoche, A. Boukhiss, M. Tahiri, O. Cherkaoui, S. Gmouh

15h40.Wed «Some samples analysis using Laser Induced Breakdown Spectroscopy»
 L. Srata, S. Farres, F. Fethi, H. Chatel

15h50.Wed «Anticrossing behavior of surface plasmon polariton dispersions in Metal-insulator-metal structures»
 S. Refki, S. Hayashi, Anouar Rahmouni, D. V. Nesterenko, Z. Sekkat

Session2

Chair :Oukarfi Benyounes

14h30.Wed «Infrared and Electrochemical Studies of Polyacrylonitrile-Succinonitrile Plastic Crystal Polymer Electrolytes»
 Zurina Osman (Centre for Ionics, University of Malaya, Malaysia)

Oral Lectures

14h50.Wed «TRNSYS modeling of solar parabolic trough power plant with organic Rankin cycle»
 R. Ait El Cadi, S. Bouaddi, N. Selhaoui, K. Bouabid, A. Ihlal, L. Bouriden, B. Abnay

15h00.Wed «Sustainable management of wastewater from the cardboard manufacturing industry: Treatment by infiltration percolation on a column»
 A. Bellarbi, A. Graich, M. Monkade, A. Zradba, M. Khaidar

15h10.Wed «Natural radioactivity and effective dose assessment in Moroccan building materials»
 A. Nachab, E. Gasser, A. Nourreddine, Ch. Roy

15h20.Wed «Preparation of Co-doped ZnO (CZO) Thin Film by SILAR method for PV application»
 A. Elfanaoui, E. Elhamri, A. Ihlal, A. Taleb, H. Kirou, K. Bouabid

15h30.Wed «A complete sliding mode control strategy applied to a DFIG with a reduced chattering effect under parameters variation for high-power wind energy»
 H. Lhachimi, Y. Elkouari, Y. Sayouti, B. Oukarfi

15h40.Wed «Real time characterization of a photovoltaic panel using the five parameters model»
 A. C. Foles, A. Albino, M. Tlemçani

15h50.Wed «Sensitivity analysis of Ambient Temperature and Wind speed using Error Function for Photovoltaic cell»
 M. R. Rashed, A. Albino, T. Goncalves, M. Tlemçani

16h00 – 16h30

Coffee Break

16h30 – 17h30

Oral Lectures

Session 1, chair : Przemyslaw Płóciennik

16h30.Wed «Functionalized Photoswitchable Styrylquinoline-Based Polymers for Nonlinear Optical Applications»
 D. Guichaoua, B. Kulyk, O. Krupka, O. Kharchenko, V. Smokal, O. Kolendo, B. Sahraoui

16h40.Wed «Light Polarization Dependence of Holographic Storage in Azopolymers»
 Y. Bougdid, A. Moujdi, A. Rahmouni, D. V. Nesterenko, and Z. Sekkat

16h50.Wed «Electromagnetic fields effects on the intersubband optical properties in GaN/Al(Ga)N double inverse parabolic quantum wells structures for optoelectronic device»
 A. El Kadadra, D. Abouelaoualim, K. Fellaoui, A. Oueriagli

17h00.Wed «Contribution to the Study of In₂S₃: Al Thin Films Properties Grown by Chemical Bath Deposition»
 Samira Elfarrass, Bouchaib Hartiti, Abderraouf Ridah, Philippe Thevenin

17h10.Wed «Cadmium Sulfide (CdS) thin films doped In, Sn and Fe by spray pyrolysis using Taguchi method»
 Youssef Arba, Bouchaib Hartiti, Abderraouf Ridah, Philippe Thevenin

17h20.Wed «Isotherm, kinetic and thermodynamic studies on the adsorption behavior of disperse blue 165 dye onto chitosan and phosphogypsum»
 J. Mouldar, H. Hafdi, M. Joudi, H. Nasrellah, A. Loudiki, M.A. El Mhammedi and M. Bakasse

Session 2, Chair: Ihya Ait Ichou

16h30.Wed «Biodegradable particles for challenging cosmetic- textile application»
 N. Zafar, H. Fessi, A. Elaissari

16h40.Wed «The Performances of TiO₂ Nanoparticles on Negative Electrode for Lithium Ion Batteries»
 W. Nachit, R. Yazami, Z. Ramzi, S. Touhtouh, K. Benkhoulja

16h50.Wed «A theoretical model for thermoelectric generator design in a hybrid TE/PV system»
 Mustapha El Milles, Abdelwahed Hajjaji, Youssef EL KOUARI

17h00.Wed «Evaluation of Three Types of PV Panels Based on Silicon Material: A Case Study in Casablanca, Morocco»
 Amine Halbaoui, Bouchaib Hartiti, Mehdi Karami, Abderrazak Elamim, Abderraouf Ridah, Philippe Thevenin

17h10.Wed «Temperature Growth and Annealing Effects on CdS Thin Films Prepared by Spray pyrolysis»
 Asma EZZAKJ, Bouchaib Hartiti, Salah Fadili

17h20.Wed «New modeling and simulation of pyroelectricity for thermal energy harvesting»
 Y. Tabbai, F. Belhora, R. El Moznine, A. Hajjaji, A. EL Ballouti

17h30 – 18h30

Poster Session

18h30 – 20h00

20h00 – 22h00

Gala Dinner

Thursday 30-03 AM

9h00 – 10h30

Invited Lectures

Session 1

Chair : Katarzyna Ozga

9h00.Thu «Selected methods of thin films deposition and their applications»

Przemyslaw Płóciennik (UMK, Torun, Poland)

Session2

Chair :Mickaël Lallart

9h00.Thu «Fabrication of electrodeposited polyaniline nanowires on carbon fiber cloth as supercapacitor electrode material»

Siri Rohana Majid (Centre for Ionics,University of Malaya, Kuala Lumpur, Malaysia)

Oral Lectures

Session 1

9h20. Thu «Laser interferometer based measurement for error compensation in cartesian multi-axis systems»

Younes Echerfaoui, Abderrazak El Ouafi and Ahmed Chebak

9h30.Thu «Parameters Extraction of Photovoltaic cell using a New Method Based on Experimental Current-Voltage Characteristic»

Hamza Mokhliss, Khalid Rais9h40.Thu « Structure and optical properties of Zn₂ Materials»**M. Lougdali**, Y. Elkouari, Z. Sofiani, M. Zazoui, A. Zawadzka, B. Sahraoui09h50.Thu «Correlation between band structures and Quantum Hall effect GaAs/Al_{0.15}Ga_{0.85}As nanostructure superlattice for nearinfrared detection»**Driss Barkissy**, Abdelhakim Nafidi, Abderrazak Boutramane, Nassima Benchtaber

10h00.Thu «Graphene Oxide In situ reduction effect on the opto-structural properties of P3HT/rGO composites»

Anass Bakour, Mimouna Baitoul, Omar Bajjou, and Eric Faulques

10h10.Thu «Nano-Indentation Of Nanocrystalline's Tungsten – A Molecular Dynamic Simulation Effect Of Penetration Velocity And Grain Size Study»

A.Tahiri, M. Idiri, B.Boubeker, A. Hasnaoui, P. Valat-Villain

10h20.Thu «Some samples analysis using Laser Induced Breakdown Spectroscopy»

Loubna SRATA, Sofia FARRES, **Fouad Fethi** and Hassan Chatei

Session2

9h20.Thu «Efficient fuzzy logic MPPT control for solar panel and wind turbine in hybrid power system»

Soro Siellé Martin, Ahmed Chebak and Abderrazak El Ouafi

9h30.Thu «Analysis of the Thermal Performance of Building Envelopes Incorporating Phase Change Material (PCM) for Passive Cooling Applications»

Amal Louanate, Rabie El Otmani, Khalid Kandoussi, Mohamed Eljouad, Abdelwahed Hajjaji, Adil Rachek

9h40.Thu «Improvement of the availability and efficiency of induction motors using piezoelectric materials»

Mohamed Kaddari, Chouaib Ennawaoui, Mahmoud El Mouden, Abdelwahed Hajjaji

09h50.Thu «TS Fuzzy Modeling Approach for the Three Level Boost Converter»

Said El Beid, Hassan Abouobaida, Abdelwahed Hajjaji

10h00.Thu «Composite Materials based on Plaster»

Said Bouzit, Mohamed Taha, Said Laasri, L.Bouriden10h10.Thu «FAPbI₃-xBr_x: Stability, structural and optical properties of solution processed mixed formamidinium lead perovskite thin films»**Lahoucine Atourki**, Erika Vega, Bernabé Marí, Miguel Mollar, Hassan Kirou, Khalid Bouabid and Ahmed Ihlal

10h20.Thu «Efficiency and optimization of the energy consumption of the factory of the CMCP-IP AGADIR»

Hayat El Baamrani and Abdellah Boukhris

10h30 – 11h00

Coffee Break

11h00 – 12h00

Oral Lectures

Session 1

Chair : Ahmed Ihlal

11h00.Thu «Optical and dielectric properties of PMMA-Carbon dots nanocomposites»

I. Bouknaitir, A. Panniello, M. Corricelli, M. Striccoli, L. C. Costa, M. E. Achour

11h10.Thu «An investigation of electronic and optical transition of GaAsBi/GaAs Spherical Quantum Dots»

N. Ben Afkir, J. Meziane and M. Zazoui

11h20.Thu «Elaboration of low coast filters from natural Materials for the removal of disperse blue 79 azo dye From aqueous solutions»

B. Hatimi, H. Nasrellah, I.B. Toumert, A. Farahi, M. A. El Mhammedi and Mina Bakasse

11h30.Thu «Structural, Elastic, Electronic, and Ferromagnetic Properties of the alloy Zn 1/2 Ni 1/2 O»

Hayat Moujri, Abdelkader Boudali, Mohammed Fliyou, Said Ouaskit

11h40.Thu «The effect of the doped process on the avalanche breaking in composite materials»

I. Achik, H.Sbiaai, A. Hader, R.Bakir, A. Zouhair and Y. Boughaleb11h50.Thu «Ab-initio study of structural and Optical properties of TiO₂»**M. Aazi**, I. Bziz, A. Es-Smaili, E. H. Atmani, N. Fazouan

Session2

Chair :Fakkar Abderrahim

11h00.Thu «Study of Kinetic evolution of self organized systems by Langevin equation»

R. Bakir, A. Hader, I.Achika, H.Sbiaai, L. Amallah, M.Mazroui and Y.Boughaleb

11h10.Thu «A Novel Approach for the Reactive Power Control of Self-Excited Induction Generator»

S. Ameziane

11h20.Thu «Model of piezoelectric self powered supply for portable devices using technical textile as a support»

N. Chakhchaoui, H. Ennamiri, A. Hajjaji, A. Eddiaï, Mounir11h30.Thu «Microstructural characterization and thermal analysis of Fe-Cr-W-Y₂O₃ powders prepared by mechanical alloying»**M. Stanculescu**, M. Abrudeanu, C. Ducu, T. Meleg

11h40.Thu «Bioelectrochemical Systems for Clean Environmental»

Rajaa Maallah, Sakina Touzara, Amina Amlil, Abdilah Chtaini

11h50.Thu «A hybrid smart speed bump for mechanical energy Harvesting : Road Applications»

C. Ennawaoui, A.Hajjaji, S.Laasri, N.Gazari, A.Azim

12h00 – 14h00

Lunch

Session2
Chair : Mohamed Monkade

14h00.Thu «Characterization and simulation of the behavior of a multilayer-material for hybrid energy harvesting device»
I. Salhi, F. Belhora, M. Yessari, A. Hajjaji

14h10.Thu «Ab-initio study of structural and electronic properties of Tin Dioxide (SnO₂) »
I. Bziz, A. Es-Smaili, M. Aazi, E. H. Atmani, N. Fazouan

14h20.Thu «A molecular dynamic study of medium-range network in Ni₃Al metallic glass»
S.Trady, M. Mazroui, A.Hasnaoui, K.Saadouni

14h30.Thu «DFT study of Zinc Sulfide (ZnS) phases: Stability, Structural, Electronic and Optical Properties»
A. Smairi, M. Aazi , I. Bziz, N. Fazouan, E. H. Atmani

14h40.Thu «Outdoor performance analysis of different Photovoltaic technologies under Moroccan Climate conditions»
A. Benazzouz, Z. Naimi , B. Ikken and A. Barhdadi

14h50.Thu «Avalanche breaking behaviors and scaling law in failure process of fiber bundle model with randomly oriented fibers»
H. Sbiaai, A. Hader, R. Bakir, I. Achik, A. Zouhair and Y.Boughaleb

15h00.Thu «Soiling effects on high concentration photovoltaic energy productivity in morocco»
W. Anana, F. Chaouki, B. Laarabi, D. Dahlioui, V. Gilioli, D. Verdilio, M. Abdelmjid Sebbar, A. Barhdadi

15h10.Thu «Phase Transitions, Wigner Function and Entanglement of the Dicke Model»
A. Chentouf, Z. Sakhi And M. Bennai

15h20.Thu «Solid fuels higher heating value estimation from ultimate analysis»
I. Boumanchar, Y. Chhiti, F.E. M'hamdi Alaoui, A. Sahibed-Dine, M. Bensitel

15h30.Thu «Characterization and Numerical simulation of ferroelectric materials used for energy harvesting applications»
H. Lifi, A. Hajjaji, S. Touhtouh, F. Belhora, M. Benjelloun

15h40.Thu «Defect depth evaluation by artificial neural network with standard thermal contrast of active infrared thermography»
H. Halloua, A. Elhassnaoui, A. Obbadi, Y. Errami, S. Sahnoun

Session2
Chair : El-Kebir Hlil

14h00.Thu «Interplay between vortex phase transition and Magnetization in the organic layered superconductor k-(BEDT-TTF)₂ Cu[N(CN)₂]Br»
H. El Ouaddi, A. Tirbiyine, A. Taoufik Y. Ait Ahmed, A. Nafidi, H. Chaib, M.Mamor, H. El Hamidi, A. Hafid

14h10.Thu «Quantum uncertainty in Heisenberg Systems with Dzyaloshinski-Moriya coupling»
R. Benhammou, N. Habiballah, A. Arbaoui, M. Daoud

14h20.Thu «Intelligent Energy Management System of an Islanded Microgrid»
M. Hamidi, B. Oukarfi, Y. El Kouari

14h30.Thu «Pre-study of possibility to produce desalinate sea water and electricity from heat recovery in sulfuric acid plants»
Y.Aroussy, D.Saifaoui, M.Nachtane, M.Tarfaoui

14h40.Thu «Modelisation and simulation of different method for desalination of sea water»
S. Rochd, Z. Belkiri, S. Zoukhri, A. Dezairi

14h50.Thu «Latent heat thermal energy storage: experimental investigation »
Mohamed El Habib Amagour, Adil Racheq, Mounir Bennajah, Rabie El-Otmani, Mohamed Ebn Touhami

15h00.Thu «Diffusion of Brownian interacting particles through a deformed-Substrate»
L. Arfa, M. Ouahmane, L. El Arroum and Y. Boughaleb

15h10.Thu «Recovery of sludge generated from cardboard industry wastewater treatment in the manufacture of building materials»
A. Graich, A. Bellarbi, M. Monkade, A. Zradba, H. Ghanim

15h20.Thu «Physical and chemical analyzes of outdoor dirt naturally deposited on pv modules in different Moroccan climates»
B. Laarabi, D. Dahlioui, F. Chaouki, W. Anana, M. Abdelmjid Sebbar and A. Barhdadi

15h30.Thu «Assessment of soiling effect on energy productivity of pv modules installed in rabat»
D. Dahlioui, B. Laarabi, M. Abdelmjid Sebbar, J. Boardman, E. Menard, G. Dambriane and A. Barhdadi

15h40.Thu «Elaboration and characterization of Cu₂ZnSnS₄ (CZTS) absorber layer by sol gel method for solar cells applications»
Ahmed Ziti, Bouchaib Hartiti, Hicham Labrim, Salah Fadili, Abderrouf Ridah, Soucace Bernabé Mari, Miguel Mollar, Philippe Thevenin

Chair : Mina Bakasse

16h30.Thu «STUDY of adsorption of disperse blue 79 dye on Chitosan, phosphogypsum and natural phosphate»
M. Joudi, J.Mouldar, H.Hafdi, H.Nasrellah, A. Loudiki, M.A. El Mhammedi and M.Bakasse

16h40.Thu «Investigation of the nucleation kinetics of Bi and δ-Bi₂O₃ during electrodeposition on an amorphous substrate ITO»
Y.Lghazi, I.Bimaghra, K.Elmerzouki , A.Sahlaoui

16h50.Thu «Parameter extraction of solar cell and module using simpler reduced form procedure»
N. Maouhoub

17h00.Thu «The impact of shading conditions on the PV array with improvement of incremental conductance algorithm»
O. Mesbahi, A. Sellami, K. Kandoussi, R. El Otmani, M. El Jouad, A. Hajjaji

17h10.Thu «Growth and characterization of CuInS₂ thin films for photovoltaic applications»
Ahmed Kotbi, Bouchaib Hartiti, Salah Fadili, Abderrouf Ridah, Philippe Thevenin

17h20.Thu «Synthesis and precursor effect studies of ZnO thin films for gas sensors applications»
Zahira El khalidi, Bouchaib Hartiti, Elisabetta Comini, M.A.H.M.Munasinghe, Salah Fadili, Mariam Siadat, Philippe Thevenin

Chair : Asmae Arbaoui

16h30.Thu «New MPPT Algorithm applied to Photovoltaic system»
H. Abouadane, A. Fakkar, D. Ouoba, Y. El Kouari

16h40.Thu «Phase slip process and charge density wave dynamics in a one dimensional conductor»
N. Habiballah, A. Arbaoui, M. Qjani a, J. Dumas

16h50.Thu «Elaboration of intelligent textile as an electrode for Organic Photovoltaic Cells applications»
H. Jaouani, D. Saifaoui, Y. Jouane, H. Ennamiri

17h00.Thu «Synthesis of TiO₂:Cu Thin films obtained by sol gel method»
Zineb ESSALHI, Bouchaib HARTITI, Abderrazak LFAKIR and Philippe Thevenin

17h10.Thu «Fabrication and Characterization of CuO Thin Films by Spray Pyrolysis Method»
Abderrahim Mouden, Bouchaib Hartiti, Salah Fadili, Mariam Siadat, Philippe Thevenin

17h20.Thu «Comparative performance investigation of different pv modules in Errachidia , Morocco»
A. Elamim, A.Haibaoui, B. Hartiti, A. Lfakir, A.Battan, P.Thevenin

Tue.P1.1	Study of nonlinear optical properties of industrial organic dyes Aouatif Aamoum , Said Taboukhat, Mina Bakasse, Hafida Bougharraf and Yahia Boughaleb	Aamoum	Aouatif	Chouaib Doukkali University, Faculty of Science
Tue.P1.2	Co-electrodeposition of kesterite Cu ₂ ZnSnS ₄ quaternary compound thin films for PV applications Khadija Abouabassi , Hassan Kirou, Mohamed Youssef Messous, Lahoucine Atourki, Khalid Bouabid, Abdeslam Elfanaoui, Mbark Nya, Ahmed Ihlal	Abouabassi	Khadija	Ibn Zohr University, Agadir, Morocco.
Tue.P1.3	Comparative study of physico-chemical properties of SILAR and electro-deposition znO and Al: znO nanostructured thin films Khadija Abouabassi , Lahoucine Atourki, Hassan Kirou, Mohamed Rafiq, Khalid Bouabid, X. Portier and Ahmed Ihlal	Abouabassi	Khadija	Ibn Zohr University, Agadir, Morocco.
Tue.P1.4	Characterization of Porous Chitosan Membrane and Performance of Proton Batteries Siti Salwa Alias and Ahmad Azmin Mohamad	Ahmad Azmin	Mohamad	University Sains Malaysia
Tue.P1.5	Optical Properties of Wurtzite Cu ₂ CoSnS ₄ , Cu ₂ NiSnS ₄ and Cu ₂ MnSnS ₄ Nanobulleted Thin Films Ümmühan AKIN , Murat YILDIRIM, Adem SARILMAZ, Faruk ÖZEL and Haluk ŞAFK	Akin	Ümmühan	Selçuk University
Tue.P1.6	Isolation, Identification and antifungal activity of flavonoids and two sesquiterpenes of <i>Asteriscus graveolens</i> Subsp. <i>Odorus</i> (Schousb.) Greuter Hakim ALILOU , Nor Eddine BARKA ³ , Bouchaib BENCHARKI	Alilou	Hakim	FPT University Ibn Zohr Agadir
Tue.P1.7	Photoisomerization of azobenzenes in solution Najat Andam , Anouar Rahmouni, Mohammed Halim, Abdelkbir Bel-laouchou and Zouheir Sekkat	Andam	Najat	Mohammed V University
Tue.P1.8	Novel polymer electrolyte layer for perovskite solar cell R. Singh, I.M. Noor, L. Shamsuddin, I. Albinsson, B-E Mellander, A.K. Arof	Arof	Abdul Karirem	University of Malaya, Kuala Lumpur, Malaysia
Tue.P1.9	The optical and structural properties of the sol-gel prepared znO thin films doped with Cu at various concentrations Rabab Bekkari , Boujemaâ Jaber, Hicham Labrim and Larbi Laânaab	Bekkari	Rabab	Mohammed V University, Rabat, Morocco
Tue.P1.10	Modelisation of magnetic separation of nanoparticles: Application to treatment water Belkiri Zineb , Zoukhri Soukaina, Rochd Sanaa, Dezairi Aouatif	Belkiri	Zineb	HASSAN II University of Casablanca
Tue.P1.11	Theoretical Investigations of the Electronic and Optical Properties of the Novel Diamond-Like Semiconductors Li ₂ CdGeS ₄ and Li ₂ CdSnS ₄ Khadidja Berarma , Zoulikha Charifi, and Hakim Baaziz	Berarma	Khadidja	University of M'sila
Tue.P1.12	Study of the Capacitance and Conductance Characteristics as Function bias voltage and Frequency of Au/gan/gaas Schottky Diodes Soumia Boualem , Zineb Benamara, Boudali Akkal, Mohammed Amrani, Arslane Hatem Kacha	Boualem	Soumia	Applied Microelectronic Laboratory, Department of Electronic
Tue.P1.13	Synthesis, spectral and electronic contribution nonlinear optical properties of new organic compounds K. Bouchouit , S. Arroudj, H. Belahou, A. Bouraiou and B. Sahraoui	Bouchouit	Karim	Ecole Normal Supérieure de Constantine
Tue.P1.14	Study of the effect of preferential solubility of a commercial LC mixture on the electro-optical performances of Polymer dispersed liquid crystal films A. Bouriche , L. Alachaher-Bedjaoui and U. Maschke	Bouriche	Amina	Université de Tlemcen
Tue.P1.15	Elaboration of ZnS nano-composites, characterization of optical properties and study Heat Treatment Influence on the Structural properties A Chaieba , A. Bouchtout 1, R. Bacha 1, A. Chari 1	Chaieba	Abderrahmane	Département de physique Université Constantine
Tue.P1.16	Electro-optical properties of hydrogenated amorphous silicon nitride films H. Charifi , A. Slaoui, H. Chaib, H. Abdelkrim	Charifi	Hicham	University Ibn Zohr,
Tue.P1.17	Rapid and green microwave-assisted synthesis of silver nanoparticles using aqueous Phoenix Dactylifera L. (date palm) wood extract and evaluation of catalytic and antibacterial activity Ibtissam Charti , Adil Eddahbi, Younes Abboud and Abdeslam El Bouari	Charti	Ibtissam	Université Hassan II Mohammedia-Casablanca
Tue.P1.18	Some sample analysis using Laser Induced Breakdown Spectroscopy Loubna Srata, Sofia Farres, Fouad Fethi and Hassan Chatei	Chatei	Hassan	Mohammed First University
Tue.P1.19	Study Of Optical Properties Of Thin Films From Cerium Oxide Doped with Ytterium N. Choukri , A. Mrigal, and M. Addou	Choukri	Noure Elhouda	University of Kenitra
Tue.P1.20	Effect of erbium-doping on microstructural and morphological properties of sprayed znO Thin films R. Dounia , M. Addou, J. C. Bernede, and M. Benbrahim	Dounia	R.	Faculté des Science Kénitra, Morocco
Tue.P1.21	Electromagnetic fields effects on the intersubband optical properties in gan/Al(Ga)N double inverse parabolic quantum wells structures for optoelectronic device A. El Kadadra , D. Abouelaoualim, K. Fellaoui, A. Oueriagli	El Kadadra	Adile	Cadi Ayyad University
Tue.P1.22	Optical kerr effect of photochromic molecule H. El ouazzani , D. Guichaoua, S. Taboukhat, J. Mysliwiec, O. Krupka, V. Smokal, B. Sahraoui	El Ouazzani	Hasnaa	Université d'Angers
Tue.P1.23	Numerical and experimental study of the physic-chemical properties of nanofluids S. Ezzehouany , M. Gounzari, Z. El Hamdania, A. Moumen, S. Ouaskit	Ezzehouany	Saad	Hassan II University, Ben M'Skid Faculty

Tue.P2.1	Modeling of matter with equations of state for the prediction of the thermodynamic properties of biofuels Ilham Abala , Fatima Ezzahrae M'hamdi Alaoui, Abdelaziz Sahibed-Dine, Edwardo Montero, Younes Chhiti	Abala	Ilham	Chouaib Doukkali University, El Jadida, Morocco
Tue.P2.2	Molecular statics study of adsorption and hetero-diffusion of copper, silver and gold adatoms on the (111) surfaces A. Kotri , E. Elkoraychy, M. Mazroui and Y. Boughaleb	Abdelhadi	Kotri	faculty of the sciences hassan ii
Tue.P2.3	The effect of Fe concentration on the optical, electrical and nonlinear optical properties of zinc oxide thin films S. Abed , K. Bouhouit, M.S. Aida, B. Sahraoui	Abed	Sihem	Université 20 Aout 1955 Skikda
Tue.P2.4	Investigation of flexible composite efficiency for energy harvesting S. Aboubakr , A. Hajjaji, M. Rguiti, K. Benkhouja, Y. Boughaleb, C. Courtois	Aboubakr	Sarah	Chouaib Doukkali University, El Jadida
Tue.P2.5	Enhancement of Tc and unit cell volume with the oxygen content in high Tc superconductors Abdeljabar Aboulkassim , Abdelhakim Nafidi, Keltoum Khallouq, Mohamed Bellioua, Essediq Youssef El Yakoubi, Hannour Abdelkrim, Hassan Chaib	Aboulkassim	Abdeljabar	Ibn Zohr University
Tue.P2.6	The thermodynamic optimization of the equilibrium phase diagram of the Germanium-Rare earth elements Khadija Achgar , Najim Selhaoui, Saïd Kardellass, Hassan Azza and rkia Tamim	Achgar	Khadija	University Ibn Zohr
Tue.P2.7	A molecular simulation study of the effects of particle size and temperature on Nanofluids efficiency E.M. Achhal , H. Jabraoui, S. Zeroual, H. Loulijat, S. Ouaskit, A. Hasnaoui	Achhal	El Mehdi	University HASSAN II CASA
Tue.P2.8	Magnetic Penetration Depth of κ -(BEDT-TTF) ₂ Cu[N(CN) ₂ Br Organic Superconductor Y. Ait Ahmed , A. Tirbiyine, A. Taoufik, M. Mamor, H. El Ouaddi, H. Chaib, A. Nafidi	Ait Ahmed	Youssef	Université Ibn Zohr, Agadir, Maroc
Tue.P2.9	Effect of the alloy CoFe/Cu in multilayers on the evolution of magnons created in volume and surface Ahmed Quachaou and Nadia Ait Labyad	Ait Labyad	Nadia	Ibn Tofail
Tue.P2.10	Study tools based on Artificial Intelligence for predicting the power output of photovoltaic panels according to meteorological parameters Hamza Ali Ou Salah , Benyouness Ouakari	Ali Ou Salah	Hamza	Hassan II Casablanca University,
Tue.P2.11	Design and Optimization of a High Precision PZT Actuator for Micro-positioning Applications» M. Yessari , M. Rguiti, A. Hajjaji, A. Arbaoui	Yessari	Madiha	Ecole Nationale Supérieure des Mines de Raba
Tue.P2.12	Diffusion and correlated process in the self propelled particles: Langevin Equation investigation L. Amallah , A. Hadera, R. Bakir, H. Sbiaia, I. Achika, M. Mazroui B And Y. Boughaleb	Amallah	Layla	University Hassan II. Casablanca, Morocco
Tue.P2.13	Nucleation and Growth of Zn and Zn-Fe alloy electrodeposition from chloride bath S. Amirat , R. Rehamnia	Amirat	Samia	Badji Mokhtar university of Annaba
Tue.P2.14	Effect of In-doping on structural, electrical, and optical properties of ZnO thin films for optoelectronic application Youssef Ammaïh , Bouchaïb Hartiti, Abderraouf Ridah, Abderrazak Lfakir, Bernabé Marí, Soucase And Philippe Thevenin	Ammaïh	Youssef	university of hassan ii casablanca
Tue.P2.15	Implementation of artificial intelligence methods for the management of a multi-source renewable energy system Basma Aoukach , Benyouness Ouakari, Youssef El Kouari	Aoukach	Basma	Hassan II
Tue.P2.16	Correlation effect between H(3) ⁺ fragment production and the ionization of the H(2) components of H(n) ⁺ clusters induced by single collision with a helium Soufiane Assouli , Saïd Ouaskit, Mohammed Loulidi	Assouli	Soufiane	Faculty of Sciences of Rabat
Tue.P2.17	Backstepping Terminal Sliding Mode Control For Maximum Power Point Tracking Of A Photovoltaic System Behih Khalissa, Benmahamed Khier, Attoui Hadjira , Cherif Aida, Meddad Mounir, Eddiai Adil	Attoui	Hadjira	University of Setif 1, 19000 Setif, Algeria
Tue.P2.18	Encapsulation Of Venlafaxine Into β -Cyclodextrin: Molecular Modeling Studies As Predicted By ONIOM Approach Attoui Yahia Ouassila , Khatmi Djamel-Eddine	Attoui-Yahia	Ouassila	UBMA Annaba
Tue.P2.19	Thermodynamic modeling by the calphad method and application to Cadmium-Nickel phase diagram Hassan Azza , Najim Selhaoui, and Lahcen Bouriden	Azza	Hassan	Faculty of science, University IbnZohr, Agadir
Tue.P2.20	Synthesis and Characterization of CuO Nano Particles R. Bacha , A. Chaieb, A. L. Bouchtout, F. Mhahcen, A. Chari	Bacha	R	Université des frères Mentouri Ain El-Bey 25000, Constantine, Algérie
Tue.P2.21	Effect of moisture on the thermal conductivity of local clay ma-terials Case study: Adrar clay A. Bada , A. Bassoud, H. Khelafi, A. Mokhtari	Bada	Abdelmalek	University of Adrar
Tue.P2.22	Bond Graph modeling of hybrid piezoelectric PZT-PVDF Pump Badoud Abd Essalam , Latreche Samia, Meddad Mounir, Eddiai Adil and Khemliche Mabrouk	Badoud	Abd Essalam	University of Ferhat Abbas Setif 1, Algeria
Tue.P2.23	Microstructure and electrochemical corrosion behavior of a Pb-1wt% Sn alloy for lead-acid battery components Z. Bakour , A. Dakhouch	Bakour	Zoulikha	university of m'sila
Tue.P2.24	Atmospheric plasma for thin film deposition Abdelkrim Batan And François Reniers	Batan	Abdelkrim	Université Moulay Ismail, Faculté des Sciences et Techniques, Errachidia,
Tue.P2.25	Investigation of solar cell performances based on Cu(In,Ga)Se ₂ with non-cadmium buffer layer through TCAD-SILVACO tools Bechlaghem S. , Zebentout B., Kadid A., and Benamara Z.	Bechlaghem	Sara	Applied Microelectronic Laboratory, University of Sidi Bel Abbes (Algeria)
Tue.P2.26	FUZZY ADAPTIVE SLIDING MODE CONTROL FOR PIEZOELECTRIC ACTUATORS SYSTEM Behih Khalissa , Benmahammed Khier, Chérif Aida, Zehar Djamilia, Meddad Mounir, Adil Eddiai	Behih	Khalissa	Université de BBA, Algérie

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Tue.P2.27	Conception and 2D simulation of hydrogen absorption in a metal hydride storage reactor A. A. Belghiti , S. Laasri, E.K. Hlil, R. Otmani, M. Eljoud, A.Hajjaji	Belghiti	A. A.	Chouaib Doukkali University, El Jadida
Tue.P2.28	Effects of hybridization of polymer and electret for energy conversion devices Fouad Belhora , Abdessamad El Ballouti, Samira Touhtouh, Imane Salhi, Daniel Guyomar, Chouaib Ennawaoui, Yahia Boughaleb, Abdelouahed Hajjaji	Belhora	Fouad	Laboratoire des Sciences de l'Ingénieur Pour l'Energie (LabSIPE) , Ecole Nationale des Sciences Appliquées - El Jadida , Université Chouaib Doukali, El Jadida, Morocco
Tue.P2.29	SYNTHESE D'UN PHOTOCATALYSEUR SAPO-34/TiO2 APPLICATION A LA DEGRADATION DU BLEU DE METHYLENE Salima BELLATRECHE, M.Abdelkrim HASNAOUI, Abdelkader BENGEDDACH	Bellatreche	Salima	université of Oran
Tue.P2.30	Effect of number of the holes p_{3h} in the plan CuO_2 and heat treatment on the critical temperature in $Y_{1-x}Sm_xBaSrCu_3O_{6+z}$ Mohammed Bellioua , Abdelhakim Nafidi, Keltoum Khallouq, Abdeljabar Aboulkassim, Essediq Youssef El Yakoubi, Ali Khalal	Bellioua	Mohammed	University Ibn Zohr, Agadir, Morocco
Tue.P2.31	Electrical characterizations and modeling of the transport phenomena in the GaN/GaAs structures Rafika Belroul , Zineb Benamara	Belroul	Rafika	Djillali Liabes University
Tue.P2.32	Theoretical investigations of half-metallic ferromagnetism in new Half-Heusler LiSrC and NaSrC alloys using first-principle calculations Radja Benabboun , Dalila Mesri, Asmaa Bouabça, Abdelkader Tadjer	Benabboun	Radjaa	Faculté des Sciences Exactes, Sidi Bel Abbes, ALGÉRIE
Tue.P2.33	Decentralized Fuzzy-Sliding Mode Excitation Stabilizer Control of Power Systems Multi-machines Seddik Benahdoug , Djamel Boukhetala, Farès Boudjema, Riad Khenfer, Mounir Meddad And Adil Eddiai	Benahdoug	Seddik	université de Mohamed el Bachir el Ibrahimi de Bordj Bou Arréridj
Tue.P2.34	Ab initio study of the structural, electronic and elastic properties of anti-perovskite $MgXPt_3$ and $(X=B \text{ or } c)$ A. Benamer , A. Roumili, Y. Medkour, Z. Souadia	Benamer	Ali	University of Farhat Abbas Setif 1
Tue.P2.35	Mathematical modeling of the enantioselectivity of lipase from Candida Antartica-B in organic media Fatiha Benamia-Chala , Noura Semache, Samah Bouchagra, and Zeineddine Djeghaba	Benamia	Fatiha	Badji Mokhtar University, Annaba, Algeria
Tue.P2.36	Electronic transport and bands structure in HgTe / CdTe type III superlattice for mid infrared detection Nassima Benchtaber , Abdelhakim nafidi, Abderrazak Boutramine, Driss Barkissy, Hassan Chaib	Benchtaber	Nassima	Faculty of sciences, Department of physics, Ibn zohr University Agadir
Tue.P2.37	homoeopitaxial growth thin films of nickel on ni (111) surface at high temperature by molecular dynamic simulation A. Bendaraa , A.Hassani, H. El Azrak, F. Eddiai, M. Dardouri, K. Sbiaai, A. Tabyaoui, A. Fathi, M. M. Charafi, A. Hasnaoui	Bendaraa	Anass	HASSAN I
Tue.P2.38	Morphological and Optical Properties of Organic Photovoltaic Thin Films Based MEH-PPV,P3HT and fullerene derivatives Nada Benhaddou , Ikram Anefnaf, Safae Azouz, Mohammed Abd-Lefdil and Zouheir Sekkat	Benhaddou	Nada	university mohammed V - Faculty of sciences- MASClR
Tue.P2.39	Dew harvesting by calcite radiative cooling mineral M. Benlattar, S. laatioui, M. Mazroui, E. M. Oualim	Benlattar	Mourad	University Hassa II Casablanca
Tue.P2.40	Toward a rational Process for developing effective micromechanical models Mounia Bennoura , Ahmed Aboutajeddine	Bennoura	Mounia	Faculty of Science and Technology, University of Sidi Mohamed Ben Abdellah
Tue.P2.41	Numerical analysis of the crack-defect in the cement PMMA Ali Benouis , Mohammed El Sallah Zagane, Abdelkader Boulouenar and Boualem Serier	Benouis	Ali	University of Saida
Tue.P2.42	Numerical simulation of CIGS solar cell with ZnS buffer layer Benslimane Hassane , Gani Abdenmour, Dennai Benmoussa	Benslimane	Hassane	University, Bechar, Algeria
Tue.P2.43	Magneto-resistance in YBCO thin film Mustapha Bghour , Abelaziz Labrag, Ahmed Taoufik, Abella Bouaaddi and Ahmed Tirbiyine	Bghour	Mustapha	Université Ibn Zohr
Tue.P2.44	A study of the natural aging of solar mirrors Sahar Bouaddi , Ahmed Ihlal, and Abdeslam Elfanaoui	Bouaddi	Sahar	IBN ZOHR UNIVERSITY
Tue.P2.45	Sliding mode control for MPPT of thermogenerator Seddik Benahdoug, Riad Khenfer, Mounir Meddad, Adil Eddiai, Hajar Boudalia, Djamel Boukhetala and M'hamed Mazroui	Boudalia	Hajar	HASSAN II University of Casablanca
Tue.P2.46	Electronic structure and thermoelectric properties of CmX ($X=P, As, Sb$) compounds: An efficient materials for energy conversion Kh.Boudiaf , A.Bouhemadoua, Z.Charifib, H.Baaziz	Boudiaf	Khadidja	University of Ferhat Abbas, Sétif 1, Algeria
Tue.P2.47	Modeling and simulation of the mechanical behavior of a composite blade of a floating wind turbine Hicham Boudounit , Mostapha Tarfaoui, Dennoun Saifaoui	Boudounit	Hicham	Faculty of Sciences Ain Chock, University Hassan II
Tue.P2.48	The effect of single-ion anisotropy on the magnetic properties of 2D magnetic mixed-spin (1/2, 1) square and hexagonal Ising nanoparticles Samira Bouhou , Mariam El Hamri, Ismail Essaoudi, Abdelmajid Ainane, Rajiiv Ahuja	Bouhou	Samira	idi Mohamed Ben Abdellah University, Dhar El Mahraz Faculty of Sciences
Tue.P2.49	Corrosion protection of magnesium alloy by chemical treatment in cerium and zirconium-containing electrolytes Amel Boukhouiete , Mostapha Baccouche, and Zouubida Habes	Boukhouiete	Amel	Université Badji-Mokhtar, Annaba, Algérie
Tue.P2.50	Effective Electrical Conductivity of a Heterogeneous Medium, Self-Consistent Approach Elmahdi Boulhafa , Redouane Kouddane, Fahd Soussi	Boulhafa	Elmahdi	National School of Applied Sciences, Oujda
Tue.P2.51	Évaluation non destructifs du beton conservees dans les sulfates des eaux usees de la region de Ouargla Mohammed-Amin Boumechraz , Mekki Mellas, Abdelouahed Kriker	Boumechraz	Mohammed Amin	University of Bisk
Tue.P2.52	Raman spectra of doped LiNbO3 ceramics M.Bousselamti , F.Bennani	Bousselamti	Meriem	
Tue.P2.53	Free-vibration Characteristics of Laminated Angle-ply Circular Cylindrical Shells Linda Bouyaya , Ahmed Bellaouar	Bouyaya	Linda	University Frères Mentouri Constantine
Tue.P2.54	The effect of temperature on the electrical parameters of silicon thin film crystalline silicon heterostructures Bouziane N. , Tizi S., Zebentout B., Djemai R., El Ghoul N., Benamara Z. and Khirouni K.	Bouziane	Nasreddine	University Djillali Liabes of Sidi Bel Abbes Algeria

Tue.P2.55	Investigating the hardening process of fresh cement paste using impedance spectroscopy analysis Meriem Chahbi , Abdelhadi Mortadi, Reddad El moznine, Mohamed Monkade, Elhassan Choukri, Daoud Mezzane	Chahbi	Meriem	Université Chouaib Doukkali
Tue.P2.56	Assesment of two multi-level inverters : neutral point clamped inverter and a new well balanced switches losses distribution topology Hamid Chaikhy , Mouna Essaadi, Mohamed Khafallah And Aziz El Afia	Chaikhy	Hamid	Chouaib Doukkali University
Tue.P2.57	Calculation of switching angles minimizing THD for multilevel inverters using Lebesgue integral M.Charai , A.Raihani, O.Bouattan	Charai	Mohammed	Laboratoire des Signaux, Systèmes Distribués et Intelligence Artificielle
Tue.P2.58	Optimization of the power transferred using a DC-DC converter by non-linear methods Aida Chérif , Behih Khalissa, Zehar Djamilia, Mounir Meddad, Adil Eddiai	Chérif	Aida	Université Bachir El Ibrahimi, BBA Algerie.
Tue.P2.59	Activation energy for the hydroxyapatite formation in kaolin-natural phosphate mixtures F. Chouia , H. Belhouchet	Chouia	Fateh	Université Sétif 1, 19000 Sétif, Algérie.
Tue.P2.60	First-Principles Calculations on Structural and Electronic Properties of compounds from groups III-V by FP-LMTO method S. Daho , M. Ameri	Daho	Salah Eddine	University Hassiba Benbouali, CHLEF, ALGERIE
Tue.P2.61	Parameters Accelerated KMC Simulations and Controlled Morphological Surface of Epitaxial Growth: Case Ag/Cu (110) M.Dardouri , A.Hassani, A. Hasnaoui, K. Sbiaai, A.Arbaoui	Dardouri	Moloudi	Chouaib Doukkali University
Tue.P2.62	Synthesis of an iron phosphate glass loaded with a complex nuclear waste mixture A. Djeridi, N. Kamel, A. Benmounah, D. Moudir S. Kamariz, Y. Mouheb, F. Aouchiche	Djeridi	Abdelmoumene	University M' Hamed Bouguara of Boumerdes, Boumerdès, 35000, Algeria
Tue.P2.63	Optimization of Photovoltaic System Power by a New Hyperbolic Tangent Approximation of the of Artificial Neural Network MPPT under Xilinx System Fayrouz Dkhichi , Benyounes Ouakari, Youssef El Kouari	Dkhichi	Fayrouz	Faculty of Sciences and Techniques of Mohammedia
Tue.P2.64	Mixed convection in a three-dimensionalventilated cavity with a partially heated wall Hicham Doghmi , Btissam Abourida, Lahoucine Belarache, Mohamed Sannad, Meriem Ouzaouit	Doghmi	Hicham	Ecole Nationale des Sciences Appliquées d'Agadir
Tue.P2.65	Microwave-assisted approach for rapid synthesis of nanoparticles using Poly (alcohol vinyl co-acetate of vinyl) and their antibacterial activity Adil Eddahbi and Said Ouaskit	Eddahbi	Adil	Université Hassan II Casablanca, Morocco
Tue.P2.66	Smart Sensor for Fault-Tolerant-Control of the Induction Motor Mekhalfia Fadhila, khodja Djala Eddine, Meddad Mounir, Eddiai Adil	Eddiai	Adil	Université Hassan II de Casablanca
Tue.P2.67	Structure stability and diffusion mechanism of pt tetramers on cu (110) surfaces and au tetramers on ag (110) surfaces Mekhalfia Fadhila, khodja Djala Eddine, Meddad Mounir, Eddiai Adil	Eddiai	Fouad	HASSAN I
Tue.P2.68	Giant magnetoresistance of hybrid magnetic structures [(CoZr/Co/CoZr)] ₁₅ (type I) or[(Co/CoZr/Co)Cu] ₁₅ K.El Aidoudi , A.Qachou, Atika Fahmi.M and EL Harfaoui	El Aidoudi	Kamar	Laboratoire physique de la matière condense (LPMC)
Tue.P2.69	Simulation of thin films growth: application of the modified embedded atom method in the case of Ti/Ti(0001) system L. El Atouani , A.El Hasnaoui, M.Mazroui, Y.El Koraychy	El Atouani	Lakbira	Organization : Laboratoire des sciences des Matériaux des Milieux et de la Modélisation (S3M) , Faculté Polydisciplinaire de Khouribga , Université Hassan-1er 26000 Settat.
Tue.P2.70	Homoepitaxial study of silver on ag (111) by the simulation of molecular dynamics H. El Azrak , A.Hassani, F. Eddiai, M. Dardouri, K. Sbiaai, M. charafi, A. Hasnaoui	El Azrak	Hicham	HASSAN I
Tue.P2.71	Graphene-based thermoplastic polymer nanocomposites applied to harvesting energy Nada EL Bouziani , Abdelwahed Hajjaji and Fouad Belhora	El Bouziani	Nada	Chouaib Doukkali University, El Jadida
Tue.P2.72	A simple method at room temperature for the preparation of nanostructured Nano-oxides Amine El Farrouji , Abderrahim Chihab Eddine, Larbi El Firdoussi, Mustapha Ait Ali	El Farrouji	Amine	Faculté des sciences Ibn zohr
Tue.P2.73	Thermal Energy Harvesting Using Oil Convections and Pyroelectric Effect Fatima Zahra El Fatnani , M'hammed Mazroui, Fouad Belhora, Daniel Guyomar, Yahia Boughaleb	El Fatnani	Fatima Zahra	Univ. Hassan II de Casablanca / INSA de LYON
Tue.P2.74	Parabolic trough collectors for industrial process heat Badreddine El Ghazzani , Radia Ait El Cadi, Omar Ait Mensour, Khalid Bouabid, Ahmed Ihlal	El Ghazzani	Badreddine	IbnZohr univrity
Tue.P2.75	Impedance spectroscopy as a tool to evaluate the performance of solar cell El Ghyati Nabil , Mortadi Abdehadi, Zaim Soumia, Chahid El Ghaouti, Zradba Abdellah, Cherkaoui Omar And El Moznine Reddad	El Ghyati	Nabil	Université Chouaib Doukkali
Tue.P2.76	Vortex Dynamics and Flux Flow Instabilities in YBaCO Thin Film Habiba. El Hamidi , Ahmed. Taoufik, Youssef. Ait Ahmed, Brahim. El Moud-den, Aabdelhalim. abdelhakim NAFIDI, Aziz. Labrag, Mustapha. Bghor, Fatiha. Chibane, Ahmed. Tirbiyine	El Hamidi	Habiba	University of Ibn Zohr,
Tue.P2.77	Magnetic properties of an antiferromagnetic core/shell cubic nanowire Mariam El Hamri , Samira Bouhou, Ismail Essaoudi, Abdelmajid Ainane, Rajeev Ahuja and Francis Dujardin	El Hamri	Mariam	Moulay Ismail university
Tue.P2.78	Hysteresis loop behaviors of a decorated cubic nanotube Mariam El Hamri , Samira Bouhou, Ismail Essaoudi, Abdelmajid Ainane, Rajeev Ahuja and Francis Dujardin	El Hamri	Mariam	Moulay Ismail university
Tue.P2.79	Electromagnetic fields effects on the intersubband optical properties in GaN/Al(Ga)N double inverse parabolic quantum wells structures for optoelectronic device A. El Kadadra , D.Abouelaoualim, K. Fellaoui , A. Oueriagli	El Kadadra	Adile	Cadi Ayyad University
Tue.P2.80	The diffusion behavior of homo and hetero dimers on channeled gold surface E. El koraychy , M. Mazroui, K. Sbiaai, Y. Boughaleb	El Koraychy	El Yakout	Hassan II University of Casablanca
Tue.P2.81	Theoretical and experimental study of laser Granulometry E.Zaidi , A.Dezairi	El Mehdi	Zaidi	faculty of sciences Ben M'sik (URAC.10). University Hassan II of Casablanca Morocco.

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Tue.P2.82	Harvesting energy from vehicle suspension by a hybrid system Nizar Gazari, Mahmoud El Mouden , Chouaib Ennawaoui, Abdelwahed Hajjaji	El Mouden	Mahmoud	National School of Applied Sciences, Chouaib Doukkali University, El Jadida, Morocco
Tue.P2.83	Multifunctional composites based carbon nanotubes for marine energy conversion systems Ahmed EL Moumen , Mostapha Tarfaoui, and Khalid Lafdi	El Moumen	Ahmed	ENSTA Bretagne
Tue.P2.84	Down conversion in Tb ³⁺ /Yb ³⁺ doped Silica-Hafnia glass-ceramic Mariem El ouafi , Saloua Belmokhtar, Adel Bouajaj, Mohammed Reda Britel, Cristina Armellini, Francesco Enrichi, Lidia Zur, Maurizio Ferrari	El Ouafi	Mariem	ENSATanger
Tue.P2.85	Detection of Bending Cracks in Multi-layer Ceramic Capacitors (MLCC) by Pulsed Thermography Asseya.El amiri , Abderrahim.Saifi, Ahmed.Elhasnaoui, Smail.Sahnoun	El-Amiri	Asseya	Faculty of Science El-Jadida Morocco
Tue.P2.86	Mott-hopping processes in ferroelectric ceramics of Lithium-niobate materials A.El Bachiri , F. Bennani, A. Louardi, T.Derraza	Elbachiri	Abdelhadi	ENS UH II
Tue.P2.87	Thermo physical characterization of sustainable insulation materials made from textiles waste Mohamed El Wazna , Mohamed Elfatih, Abslam El Bouari And O Cherkaoui	Elwazna	Mohamed	University Hassan II
Tue.P2.88	The study of electrical properties in p-type 70Ge: Ga near the metal-insulator transition by applying the scaling laws M Errai , A El kaaouachi, H El idrissi and A. Chakhmane	Errai	Mohamed	Faculty of Sciences, Agadir,
Tue.P2.89	The study of the contribution electron-electron interaction, Zeeman splitting, weak localization effects and the sum of these three effects in correct M Errai , A El kaaouachi, H El idrissi and A. Chakhmane	Errai	Mohamed	Ibn Zohr University, Faculty of Sciences, Agadir, Morocco
Tue.P2.90	Finite element analysis of the effect of zirconia on beta tricalcium phosphate and hydroxyapatite biomaterials M. ES-Saddik , S. Laasri, M. Taha, A. Laghzizil, E.K. Hlil, A.Hajjaji	Es-Saddik	Mohamed	Ibn-Zohr University Faculty of Sciences
Tue.P2.91	Climate Study of a Moroccan photovoltaic greenhouse Kabira Ezzaeri , Lahcen Bouirden, Hicham Fatnassi	Ezzaeri	Kabira	Ibn Zohr University
Tue.P2.92	Simulation of the glass transition in amorphous polymers Fadili Soukaina , Elarroum Lahssan	Fadili	Soukaina	université Hassan II
Tue.P2.93	Evaluation of intrinsic parameters of piezoelectric polymer composite for energy harvesters R.Farhan , M. Rguiti, A. Eddiai, M. Mazroui, M. Meddad, C. Courtois	Farhan	Rida	Université hassan2 Casablanca
Tue.P2.94	Structural and elastic properties of TiN and AlN compounds: First principles study Meriem Fodil , Mohamed Amri, Amina Touia	Fodil	Meriem	Djillali liabes Sidi Bel Abbes .Algerie
Tue.P2.95	Harvesting energy from vehicle suspension by a hybrid system Nizar Gazari , Mahmoud El Mouden, Chouaib Ennawaoui, Abdelwahed Hajjaji	Gazari	Nizar	Chouaib Doukkali University, El Jadida
Tue.P2.96	New Plasticized Polymer Solid Electrolyte Material for Zn/MnO ₂ Cell Zahia Gharnout , Laid Telli, Abdallah Merrouche and Serge Walter	Gharnout	Zahia	University of m'sila
Tue.P2.97	Preparation d'hydroxyapatite naturelle a partir de l'os bovin par calcination a differentes temperatures Ghedjemis Amina , Benouadah Ali, Hatim Zineb, Alouahli Abdelaziz, Fenineche Nouredine	Ghedjemis	Amina	Université Bachir EL Ibrahimi, Bordj Bou-Arredj, Algerie
Tue.P2.98	Numerical and experimental study of the thermal conductivity of nanofluids M.Gounzari , S.Ezzehouany, Z.El Hamdania, A.Moumen, S.Ouaskit	Gounzari	Mohammed	Hassan II Casablanca
Tue.P2.99	Detailed study of charge density wave dynamics in a one dimensional compound N. Habiballah , A. Arbaoui, M. Ojani	Habiballah	Nabil	Université Ibn Zohr
Tue.P2.100	The combined effect of repulsion zone and initial velocity on Viscek model A. Hadera , R. Bakir, I. Tarrasb, H. Sbiaaia, M. Mazroui and Y.Boughaleb	Hader	Ahmed	University Hassan II. Casablanca, Morocco

Wed.P1.1	Some sample analysis using Laser Induced Breakdown Spectroscopy Loubna Srata, Sofia Farres , Fouad Fethi And Hassan Chatei	Farres	Sofia	Mohammed First University
Wed.P1.2	Electrochemical Polymerization and Physico-Chemical Characterization of Functionalized Indenofluorenes Viviana Figà , Bohdan Kulyk, Mehmet Ozdemir, Hakan Usta	Figà	Viviana	Institute for Nanostructured Materials - National Research Council, Palermo (Italy)
Wed.P1.3	Optical Measurements and Theoretical Investigations of a new Organic molecule for Optoelectronic and Photovoltaic Applications Mouad Filali , El Mestafa El Hadrami, Abdeslem Ben-Tama, Younes Abid	Filali	Mouad	Faculté des Sciences et Techniques de Fès
Wed.P1.4	Ab initio calculation of fundamental properties of caxmg1-x alloys in the rock-salt M. A. Ghebouli	Ghebouli	Mohamed Amine	M'sila university, Algeria
Wed.P1.5	Theoretical investigations of third-order nonlinear optical behaviour of p-N, N'-dimethylaniline tetrathiafulvalene derivatives Asli Karakas , Mustafa Karakaya, Mehmet Taser, Nuretdin Eren, Y. El Kouari, Bouchta Sahraoui	Karakas	Asli	Selcuk University
Wed.P1.6	Strong light-matter coupling regime in gan quantum well: polariton laser K.Fellaoui , D.Abouelaoualim, A.Elkadadra, A.Oueriagli	Khalid	Fellaoui	Cadi Ayyad University, Marrakech, Faculty of Sciences Semlalia
Wed.P1.7	Optical properties of Zn-based semiconductor (znx: X= S, Se and Te) and their applications in the radiative cooling S. Laatioui , M. Benlattar, M. Mazroui, K. Saadouni	Laatioui	Soumia	Ecole Nationale des Sciences Appliquées Khouribga, Université Hassan 1er
Wed.P1.8	Anomalous behaviour of hyperbolic heat equation at high frequencies and a very short time interval S.Mizani , H.Zerradi, A.Dezairi	Mizani	Soufiya	faculty of sciences Ben M'sick (URAC.10). University Hassan II- Casablanca
Wed.P1.9	The Effect of Pressure on the Permeability of Thin films of Permalloy Nanoparticles Diluted in an Insulating Matrix Alumina (Ni81Fe19)1-x(Al2O3)x M.Dib , M. Elharfaoui, A. Fahmi, D.Chhab	Mobarek	Dib	IbnoTofail.kenitra
Wed.P1.10	Nouvelle série de complexes à transition de spin à base de ligands polyazotés et de cyanocarbanions Rachid MOTEI , Fatima SETIFI, Smaïl TRIKI, Abdeslem BEN-TAMA, EL Mestafa El Hadrami	Motei	Rachid	Faculté des Sciences et Techniques de Fès
Wed.P1.11	Phototuning of Fano Resonance in Metal-Dielectric Multilayer Structures S. Hayashi, D. V. Nesterenko , A. Rahmouni, and Z Sekkat	Nesterenko	Dmitry	Moroccan Foundation for Science, Innovation and Research (MAScIR)
Wed.P1.12	Comparative study of converters controlled by Auto-Scaling Variable Step-size based MPPT for a photovoltaic system in abrupt change of weather condition David Ouoba , Abderrahim Fakkar, Youssef El Kouari, Hafsa Abouadane	Ouoba	David	Faculty of Sciences and Technologies Mohammedia
Wed.P1.13	Modeling of Metamaterials-Waveguide Solar Cells based on the Transfer Matrix Method Houria Hamouche, Mohammed Shabat and Bouchra Mokhtari	Shabat	Mohammed	Islamic University of Gaza
Wed.P1.14	General synthesis of n-membered cyclis sulfamides Fatma-Zohra Smaïne , Jean-Yves Winum	Smaïne	Fatma-Zohra	University Badji-Mokhtar-Annaba
Wed.P1.15	Ab initio study of the structural, electronic and optical properties of the K2Te and Rb2Te Z.Souadia , A. Bouhemadou, A. Benamer, R. Belkofsi et S. Saib	Souadia	Zohra	University of Farhat Abbas Setif 1
Wed.P1.16	Effect of cooling modes on defect structure in Cu-doped litaO3 M.Tahiri , A. Jennane, N. Masaif and E.M. Lotfi	Tahiri	Mohamed	ENS-Université Hassa II- Casablanca
Wed.P1.17	Effects of agent's orientation in 2d flocking models with zonal behavior R. Bakir, I. Tarras , A. Hader, M. Mazroui, and Y. Boughaleb	Tarras	Iliass	Université Hassane II Casablanca, Faculté des Science de Ben M'Sik
Wed.P1.18	Characterization of Mg-based nanoparticles in rare-earth-doped silicate optical fiber preforms: A modeling by Molecular Dynamics simulations Jérémy Turlier , Xavier Bidault, Stéphane Chaussédent, Wilfried Blanc	Turlier	Jérémy	University of Angers
Wed.P1.19	Synchronization problem in fast coincidence meters Robert Frankowski, Anna Zawadzka and Przemysław Plóciennik	Zawadzka	Anna	Nicolaus Copernicus University
Wed.P1.20	Synthesis of chiral alcohols; key intermediaries for the synthesis of bioactive molecules by biocatalysis Saoussen Zeror , Manhel Bennamane, Louisa. Aribi- Zouieueche	Zeror	Saoussen	Badji-Mokhtar. Annaba
Wed.P1.21	The kinetic of damaged region in heterogeneous materials A. Zouhair , A. Hader, H. Sbiaai, I. Achik, R. Bakir and Y. Boughaleb	Zouhair	Abdelilah	University Hassan II. Casablanca, Morocco
Wed.P1.22	Study of mechanisms of water purification techniques: the case of seawater desalination Zoukhri Soukaina , Belkiri Zineb Rochd Sanaa, Dezairi Aouatif	Zoukhri	Soukaina	HASSAN II U niversity of Casablanca,

Wed.P2.1	Thermodynamic and kinetic study for the removal of reactive yellow 145 as an anionic dye from aqueous solutions by natural phosphate. H. Hafdi , M. Joudi, H. Nasrellah, J. Mouldar, M. A. El Mhammedi and Mina Bakasse	Hafdi	Houyem	university of chouaib doukkali - faculty of science
Wed.P2.2	Numerical simulation and hydrothermal study of the slurry flow Inside the Phosphoric Acid Reactor Z.Hait , R.Elottmani, H.Mazouz, K.Kandoussi, M.Eljouad, B.Elkortobi, A.Hajjaji	Hait	Zineb	Université Chouaib Doukkali d'El Jadida
Wed.P2.3	An improved genetic algorithm with convex combination crossover technique for parameters extraction of solar cell models Naima Hamid , Rachida Abounacer, Mohammed Idali Oumhand, M'barek Feddaoui, Driss Agliz	Hamid	Naima	National School of Applied Sciences, Ibn Zohr University, Agadir-Morocco
Wed.P2.4	BT/BP: an eco-friendly nanocomposite for electrical energy storage and biomedical applications Zouhair Hanani , Saad Belkhadir, M'barek Amjoud, Mohammed Lahcini, Daoud Mezzane, Abdelaadim Danine, Sébastien Fourcade, Bouchra Asbani, and Mohamed Gouné	Hanani	Zouhair	Cadi Ayyad University
Wed.P2.5	Nanostructured L10-CoPt dot arrays with perpendicular magnetic anisotropy A.Hannour , A. Nafidi, L. Bardotti, B. Prével, F. Tournus, D. Mailly, J.-P. Bucher	Hannour	Abdelkrim	Faculty of Sciences, Ibn Zohr University
Wed.P2.6	Entanglement and Correlation Functions in 1D Extended Hubbard Model S. Harir , A. Zouhair, M. Bennai and Y. Boughaleb	Harir	Said	Faculté des Sciences Ben M'Sik, Université Hassan, II-Mohammedia Casablanca, Morocco
Wed.P2.7	Molecular dynamics study of growth and interface structure during aluminum deposition on ni(001) substrate at high temperature A.Hassani , H. El Azrak , F. Eddiai , M. Dardouri A. Makan , K. Sbiaai , A. Tabyaoui , A. Fathi, A. Hasnaoui	Hassani	Abdessamad	HASSAN I
Wed.P2.8	Mechanism and kinetics study of the thermal decomposition and spinel (Si3Al4O12) crystallization of halloysite by differential thermal analysis (DTA) Menad Heraiza , Amina Raghdia, Foudil Sahnoune, Hocine Belhouchetb and Ameer Oualia	Heraiz	Menad	University of M'sila
Wed.P2.9	Microwave Energy Assisted Preparation of Silver Nanoparticles-Latex Copolymer Nanocomposites: Application of the Experimental Plan Method Mina Ider , Saïd Ouaskit, Alain Jouanneaux, Abdel Hadi Kassiba	Ider	Mina	University Hassan II of Casablanca, Morocco
Wed.P2.10	X- ray diffraction study of structural and mechanical modification induced by ion beam assisted deposition process of 304 L stainless steel films. M. Idiri , B. Boubeker , A. Eddiai , M. Meddad	Idiri	Mohamed	Université Hassan II de Casablanca
Wed.P2.11	Solvatochromic effect on photophysical properties of Quinoxalin-2(1H)-one and 3-Benzylquinoxalin-2(1H)-one R. Jdaa , B. Benali, A. El Assyry, B. Lakhri	Jdaa	Rachid	IBN TOFAIL
Wed.P2.12	Investigation of roughness of nickel epitaxy on ni (110) surface at high temperature by molecular dynamics simulation Y. Johrani , A.Hassani, H. El Azrak , F. Eddiai , M. Dardouri, K. Sbiaai, M. M. Charafi, A. Fathi, A. Tabyaoui, A. Hasnaoui	Johrani	Youness	HASSAN I
Wed.P2.13	Study and optimization of PV performances of simple inverted and tandem inverted bulk-heterojunction solar cells. A. Kadid , B. Zebentout, Z. Benamara and S. Bechlaghem	Kadid	Ahmed	University of Djillali Liabes
Wed.P2.14	Solution of the Dicke model for N = 3 with a diamagnetic term A2 Kadim Ghizlane , Sakhi Zineb, and Bennai Mohamed	Kadim	Ghizlane	université Hassan II
Wed.P2.15	Performance analysis and comparison of different photovoltaic modules technologies under different climatic conditions in Casablanca Elmehdi Karami , Amine Haibaoui , Abderraouf Ridah , Mohammed Rafi	Karami	Elmehdi	Hassan II university
Wed.P2.16	Thermodynamic description of the Erbium-Indium binary system Saïd Kardellass , Colette Servant, Isabelle Drouelle, Khadija Achgar, and Najim Selhaoui	Kardellass	Saïd	Laboratory of Thermodynamics and Energy (L.T.E.)
Wed.P2.17	The local structure of Aluminum monoatomic metallic glass investigated by molecular dynamics simulation M. Kbirou , S. Trady, A. Hassnaoui, M. Mazroui.	Kbirou	Meryem	faculté des sciences Ben M'sik université Hassan II Casablanca
Wed.P2.18	Effect of substitutions on AC magnetic shielding in high critical temperature superconductors Keltoum Khallouq , Abdelhakim Nafidi, Abdeljabar Aboulkassim, Mohammed Bellioua, Essediq Youssef El yakoubi, Abdelkrim Hannour	Khallouq	Keltoum	Ibn zohr University Agadir
Wed.P2.19	Roughness study of homoepitaxial growth thin films of nickel on a substrate ni (001) at high temperature by molecular dynamics simulation A. Kharroubi , A. Hassani, H. El Azrak , F. Eddiai ,M. Dardouri, K. Sbiaai, M. M. Charafi, A. Fathi, A. Tabyaoui, A. Hasnaoui, K. Zniber	Kharroubi	Ali	HASSAN I
Wed.P2.20	New Algorithm for Fault Detection and Isolation of Photovoltaic System under Partial Shading Badoud Abd Essalam, Latreche Samia, Meddad Mounir, Eddiai Adil and Khemliche Mabrouk	Khemliche	Mabrouk	University of Ferhat Abbas Setif 1, Algeria
Wed.P2.21	Effect of Cu 2 SnS 3 secondary phase on the CZTS thin films synthesized by electrodeposition method Hassan Kirou , Lahoucine Atourki, Khadija Abouabassi, Ihsane Ihalane, Abdou Elfanou, Khalid Bouabid, Mbark Nya, M.Y. Messous, Abdelmajid Al Magoussi, and Ahmed Ihlal.	Kirou	Hassan	IBN zohr University
Wed.P2.22	Impact of Deposition and Annealing Parameters on Al-BSF Quality Mazari Halima, Elamrani Abdelkader , And Labdelli Boutaleb	Labdelli	Boutaleb	Research Center in semiconductor Technology for the Energetic (CRTSE).

Wed.P2.23	Magneto-resistance anisotropy in YBCO thin film Abdelaziz Labrag , Mustapha Bghour, Ahmed Taoufik, Abella Bouaaddi and Ahmed Tirbiyine	Labrag	Abdelaziz	Université Cadi Ayyad Faculté polydisciplinaire Safi,
Wed.P2.24	The weather conditions impact on a photovoltaic panel monitored by the Perturb and observe Abdeslam LAGHMARI, Nabila RABBAH, Nadia MACHKOUR, Driss El KASMI	Laghmari	Abdeslam	Sciences and technologies Faculty, University Hassa II
Wed.P2.25	A comparative study of buck, boost and buck-boost converter and their impact on P&O control Abdeslam Laghmari , Nabila Rabbah, Nadia Machkour, Driss El Kasmi	Laghmari	Abdeslam	Faculté de sciences et techniques
Wed.P2.26	Bond Graph Modeling and Optimization of MEMS Piezoelectric Energy Harvesting Latreche Samia , Badoud Abd Essalam, Meddad Mounir, Eddiai Adil and Khemliche Mabrouk	Latrech	Samia	University of Ferhat Abbas Setif 1, Algeria
Wed.P2.26	Bond Graph modeling of a piezoelectric micro pump Latreche Samia , Badoud Abd Essalam, Meddad Mounir, Eddiai Adil and Khemliche Mabrouk	Latrech	Samia	University of Ferhat Abbas Setif 1, Algeria
Wed.P2.27	Synthesis and characterization of some rare earth phosphate pigments K. Benkhouja, E.M. Lemdek , K. Jaafari, M. Bettach and A. Eddiai	Lemdek	El Mokhtar	LCCA (E2M), Chemistry Department, Faculty of Sciences, UCD University
Wed.P2.28	Structural and magnetic properties of nanometric CoFe2O4 prepared by hydrothermal method. E.M. Lemdek , K. Benkhouja, K. Jaafari, M. Bettach and A. Eddiai	Lemdek	El Mokhtar	LCCA (E2M), Chemistry Department, Faculty of Sciences, UCD University
Wed.P2.29	Synthesis, structural and magnetic properties of Co-doped BaTiO3 H. Lemziouka , b, R. Moubabbh , L. H. Omarib, M. Abida, H. Lassrib , F. Rachidb	Lemziouka	Hamane	Université Hassan II de Casablanca
Wed.P2.30	Anti-windup principle applied to the pitch control for maximizing power in wind turbine systems Hicham Lhachimi , Youssef Elkouari, Yassine Sayouti, Abderrahim Fakkar	Lhachimi	Hicham	Hassan II University of Casablanca, B.P 146
Wed.P2.31	Composites from esparto grass fibers and plastic waste Abdelhak Maghchiche , Ramadan Nasri, Abdelkarim Haouam	Maghchiche	Abdelhak	bATNA UNIVERSITY
Wed.P2.32	On the Sol-gel synthesis and structure of strontium cobaltite as cathode Sofiane Makhloufi , Mahmoud Omari	Makhloufi	Sofiane	Univ Biskra
Wed.P2.33	Analysis of Optical Radiation Efficiency of nanoparticles on the basis of different dielectric constants of surrounding materials Masud R. Rashel , Mouhaydine Tlemçani, and Hasan Sarwar	Masud Rana	Rashel	University of Evora
Wed.P2.34	Energetics of diffusion on the (110) surfaces of Ag, Au, Pt and Cu: an embedded atom method study I. Matrane , E. Elkoraychy, K. Sbiaai, M. Mazroui, Y. Boughaleb and R.Ferrando	Matrane	Imane	aculté des Sciences Ben
Wed.P2.35	Real Time Estimation of MPPT with Non-iterative Algorithm Md Tofael Ahmed , Teresa Gonçalves, and Mouhaydine Tlemcani	Md Tofael	Ahmed	University of Evora
Wed.P2.36	Fault Detection in Induction Machine by Application smart sensors materials Mekhalfia Fadila, khodja Djatal Eddine, Meddad Mounir , Eddiai Adil	Meddad	Mounir	science and technologie
Wed.P2.37	Effect of interstitial atom X on structural, elastic, electronic and thermal properties of ScRh3, ScXRh3 (X= B or C) Y. Medkour , A. Roumili, A. Benamer, A. Saoudi, A. Medjhed, M. Reffas, K. Haddadi, D.Cherrad	Medkour	Youcef	Université de Ferhat Abbas Sétif1, Algérie
Wed.P2.38	Fault Detection in Induction Machine by Application smart sensors materials Mekhalfia Fadila , khodja Djatal Eddine, Meddad Mounir, Eddiai Adil	Mekhalfia	Fadhila	University, 28000 Msila, Algeria
Wed.P2.39	DC POWER LINE COMMUNICATION: Energy Management of an autonomous & intelligent micro-grid Mohamed Mgaizar , Benyounes Oukarfi	Mgaizar	Mohamed	Faculty of sciences and Techniques Mohammedia, Morocco
Wed.P2.40	Harvesting energy using magnetoelctrical effect in composites materials I.Mkhibach , A. El Ballouti, F. Belhora, I.Salhi, A. Hajjaji.	Mkhibach	Ihssane	Science Engineer Laboratory for Energy (LabSIPE)
Wed.P2.41	Modeling of photovoltaic systems taking into account the thermal inertia of PV materials L. Birba, M. Khaidar , A. Louardi, M. Monkade, A. Zradba, M.S. El Maliki and M. Zehaf	Mohammed	Khaidar	Chouaib Doukkali University, El Jadida, Morocco
Wed.P2.42	The effects of B2O3 addition on the properties of anorthite prepared from Algerian kaolin Afaf Mokhtari , Hocine Belhouchet	Mokhtari	Afaf	University of M'sila
Wed.P2.43	Simulation of Tried Left handed waveguide structure solar cell model of silicon and silicon nitride substrates Bouchra Mokhtari , Nour El Houda Hissi, Saida Bahsine, Nouredine Cherkaoui Eddeqaj, Mohammed Musa Shabat	Mokhtari	Bouchra	University of Moulay Ismail, Meknes
Wed.P2.44	Numerical study of the currents fluctuations in conductor-polymer composite near the percolation threshold M.Mokhtari , L. Zekri, N.Zekri	Mokhtari	Mohamed	université des sciences et de technologie USTO-MB Oran Algerie
Wed.P2.45	Optimization of coagulation-flocculation process during wastewater treatment using dielectric spectroscopy Abdelhadi Mortadi , Abderrahmane El meloukya, El Ghaouti Chahida, Omar Charkaoui, Abdellah Zradba, and Reddad El moznine	Mortadi	Abdelhadi	Université Chouaib Doukkali
Wed.P2.46	Dielectric spectroscopy as a tool to evaluate and monitoring the flocculation process during industrial wastewater treatment Abdelhadi Mortadi , El Ghaouti Chahid, Abderrahmane El melouky, Omar Charkaoui, Abdellah Zradb, and Reddad El moznine	Mortadi	Abdelhadi	Université Chouaib Doukkali
Wed.P2.47	Investigation in resolution and efficiency detection of gso(ce) and Iso(ce) in the γ-ray energy range from 20 to 1.33 mev with mcnp-4c code Issam Mouhti , Mohamed Youssef Messous, Abdellatif Elanique, Bouchra Belhorma, Aziz Benahmed	Mouhti	Issam	Université Ibn Zohr,
Wed.P2.48	Theoretical investigation on structural, elastic and electronic properties of cubic perovskite LaAlO3 and XTiO3 (X=Ca, Sr, Pb) H. Moujri , A. Boudali , E. K. Hilil , M. Fliyou , M. D. Khodja , S. Ouaskit	Moujri	Hayat	Laboratory of the Condensed Matter Physics

Wed.P2.49	The effects of B2O3 addition on the properties of anorthite prepared from Algerian kaolin Afaf Mokhtari , Hocine Belhouchet	Moukhtari	Afaf	University of M'Sila
Wed.P2.50	Determination of neoclassical transport coefficients in dusty plasma R.Moultif , A.Dezairi	Moultif	Rachida	University Hassan II. Casablanca, Morocco
Wed.P2.51	Pd nanoparticles Synthesized by Polyol Assisted Microwave A.Moumen , H. Wafae, K. Abderrafi, A. Eddahbi, S. Ouaskit	Moumen	Abdessamad	aculté des Sciences Ben M'Sik, Hassan II University of Casablanca, Morocco
Wed.P2.52	Structural and electrical properties of undoped and Sn doped VO2 films produced by spray pyrolysis A.Mrigal , M. Addou, M. El Jouad, and N. choukri	Mrigal	Asmaa	Ibn Tofail
Wed.P2.53	Review of the Grid-connected photovoltaic system islanding detection. Abdelwahed Hajjaji, Radouane N'ait Zarri	N'ait Zarri	Radouane	ENSA El Jadida
Wed.P2.54	Effect of duct geometry on the performance of horizontal-axis marine current turbines M. Nachtane , M. Tarfaoui, D.Saifaoui	Nachtane	Mourad	Hassan II University of Casablanca
Wed.P2.55	Removal of ibuprofen from drinking water using adsorption and photocatalytic methods on apatite-based composite materials N. Naciri , L. El Gaini, H.Nasrellah, J. Mouldar, A. Farahi, M. A. El Mhammedi, and M. Bakasse	Naciri	Nouâma	university of Chouaib Doukkali - faculty of science
Wed.P2.56	Modeling of solar energy potential in Souss-Massa area-Morocco using an artificial neural network model O. Nait Mensour , B. Hlimi, B.EL Ghazzani, A. Ihlal	Nait Mensour	Omar	Faculty of sciences Ibn Zohr University
Wed.P2.57	Photocatalytic Degradation of Bisphenol A in The Presence of Ce-ZnO catalysts Under UV Irradiation. Olfa Bechambi, Wahiba Najjar and Sami Sayadi	Najjar	Wahiba	Institut Supérieur des Etudes Préparatoires Biologie-Géologie de la Soukra.
Wed.P2.58	Analysis of high power and high energy seven-core fiber laser Ali Nassiri , Driss Mgharaz, Hafida.Idrissi-Saba	Nassiri	Ali	University ibn zohr, Agadir, Morocco
Wed.P2.59	Study on the thermal properties of palm petiole for solar application R.Oaddi , R.Tiskatine, M.Boulaïd, A.Aharoune, A.Ihlal	Oaddi	Rachida	Ibn Zohr University, faculty of sciences
Wed.P2.60	The effect of the synthesis parameters on the structural and optical properties of CdS thin films prepared by CBD method Mouad Ouafi , Boujemaâ Jaber, Najoua Zayyoun, Rabab BEKKARI, Abdesslam Elfanaoui, Ahmed Ihlal, Khalid Bouabid and Larbi Laanab	Ouafi	Mouad	FSR UM5
Wed.P2.61	Influence of substrate potential shape on the diffusion of non-interacting Brownian particles Mehdi Ouahmane , Lehen Arfa and Lehen Elarroum	Ouahmane	Mehdi	Université Hassan II, Faculté des Sciences Ben M'Sik
Wed.P2.62	Studies of SnS thin films grown by SILAR method Y. Qachaou , A. Raidou, K. Nouneh, M. Lharch, A. Qachaou, L. Laanab, M. Fahoume	Qachaou	Youssef	University of science Kenitra
Wed.P2.63	The Kinetics and Mechanism of Decomposition of Halloysite by Thermogravimetric Analysis Amina Raghdi , Menad Heraiz, and Foudil Sahnoune	Raghdi	Amina	University of M'sila
Wed.P2.64	Study on the combustion and thermal behavior of Argan nut-shells particles Y. Rahib , A. Elorf, J.Chaoufi, B.Sarh, M. Ezahri, A. Ihlal	Rahib	Yassine	Ibn Zohr University, faculty of sciences
Wed.P2.65	The Effect of B2O3 Addition on the Formation Mechanism and Sintering of Cordierite Synthesized from Kaolinite and MgO Djaïda Redaoui , Foudil Sahnoune, Ameur Ouali	Redaoui	Djaïda	University of m'sila
Wed.P2.66	Vibration energy harvesting using the composite polyurethane/lead zirconate titanate Abdelkader Rjafallah , Abdelwahed Hajjaji, and Yahia Boughaleb	Rjafallah	Abdelkader	National School of Applied Sciences
Wed.P2.67	Effect of geometric confinement parameters on the electronic properties of nanowire M.Rzaizi , D. Abouelaoulim, Aouriaqli	Rzaizi	Mourad	Cadi Ayyad University, Marrakech, Morocco
Wed.P2.68	Bond Graph modeling of a piezoelectric micro pump Latreche Samia, Badoud Abd Essalam, Meddad Mounir, Eddiaï Adil, Khemliche Mabrouk, Khalid Saadouni	Saadouni	Khalid	ENSAK de Khouribga
Wed.P2.69	The Effect of CaO Addition on the Phase Transformation of Cordierite Synthesized from Kaolinite and MgO Foudil Sahnoune , Djaïda Redaoui, Messaoud Fatmi, Meftah Hraïri	Sahnoune	Foudil	University Mohamed Boudiaf of M'sila,
Wed.P2.70	Determining the thermal properties of deposits by infrared thermography in the solar thermal energy system piping and the booster heating A. Saïfi , H.Halloula, A. Elamiri, A.Elhasnaoui, A.Obbadi, Y.Errami and S. Sahnoun	Saïfi	Abderrahim	Faculty of Science El-Jadida Morroco
Wed.P2.71	Ab-initio study of structural, elastic, electronic and magnetic properties of AlCRe ₃ (Re= rare earth elements) A. Saoudi , Y. Medkour, A. Roumili, A. Medjhed, M. Reffas, K. Haddadi	Saoudi	Amer	Ferhat Abbas university, Algeria
Wed.P2.72	Parameters Accelerated KMC Simulations and Controlled Morphological Surface of Epitaxial Growth: Case Ag/Cu (110) M.Dardouri, A.Hassani, A. Hasnaoui, K. Sbiaai , A.Arbaoui	Sbiaai	Khalid	University Hassan I settat
Wed.P2.73	Numerical Study of Solidification Process of a Phase Change Material Integrated In Photovoltaic System Assia Sellami , Rabie El Otmani, Khalid Kandoussi, Mohamed Eljouad, Oumaima Mesbahi, Abdelwahed Hajjaji	Sellami	Assia	Université chouaib doukkali d'El Jadida
Wed.P2.74	Odour quantification using an array of metal oxide gas sensors and proper data processing Maria Kadi, Etienne Losson, and Maryam Siadat	Siadat	Maryam	Université de Lorraine
Wed.P2.75	Electrical properties modeling of spinel Mg cobalt oxide (Mg _x Co _{3-x} O ₄) thin films L. Soussi , A. Louardi, A. El Bachiri, A. Rmili, T. Tchoutki, B. Elidrissi, H. Erguig	Soussi	Lahcen	University Ibn tofaïl, école nationale des sciences appliquées
Wed.P2.76	Phosphates Application in Inhibition of calcite crystallization on Au (111) Hassiba Teghidet , Lila Chaal, Suzanne Joiret And Boualem Saidani	Teghidet	Hassiba	Université de Béjaïa, Algérie
Wed.P2.77	Identification of suitable storage materials for solar thermal power plant using selection methodology Rachid Tiskatine , Aicha Eddemani, Ahmed Aharoune, Lahcen Bouirden, Ahmed Ihlal	Tiskatine	Rachid	Ibn Zohr Agadir

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Wed.P2.78	Preparation of NIR-Visible up converter CaWO ₄ : Er ³⁺ /Yb ³⁺ using microwave radiation N. Touba , M. Y. Messous, Z. El Afia, B. Belhorma, A. Moussaif, M. Tahri, M. Ebn Touhami	Touba	Naoual	University Ibn tofail
Wed.P2.79	2-Benzimidazolethiole Based Biosensor For Lead Ions Determination Sakina Touzara , Rajaa Maallah, Rachida Najih, Abdelilah Chtaini	Touzara	Sakina	Université Sultan Moulay Slimane
Wed.P2.80	Determination of the ideality factor by using the fixed point method G.Traiki , A.Bifadene, And O.Bouattane	Traiki	Ghizlane	Hassan 2
Wed.P2.81	Ultrasonic Spray-Assisted CVD and Seed Mediated Growth techniques to control the deposition of ZnO thin films and gold-silver nanoparticles on solid substrate for photovoltaic application Yassin Khaissa , Ilyas Jellal, Mounir Fahoume and Khalid Nouneh	Yassin	Khaissa	Université Ibn Tofail BP 133, 14000 Kenitra Maroc
Wed.P2.82	Simple synthesis of brushite from phosphogypsum industrial waste I. Yassine , H. Nasrellah, B. Hatimi, R. EL Moznine, M.A. El Mahammedi, M.Bakasse	Yassine	Imad	university of Chouaib Doukkali - faculty of science
Wed.P2.83	Study of PCM behavior using apparent Cp method Ghada Zaatouri , Rabie El Otmani, Khalid Kandoussi, Mohamed El Jouad, Abdelwahed Hajjaji	Zaatouri	Ghada	Chouaib Doukkali University, El Jadida
Wed.P2.84	The hysteretic and magnetic properties of a nanoparticle with disordered interface N. Zaim, A. Zaim and M. Kerouad	Zaim	Noura	Faculty of Sciences -University of Moulay Ismail
Wed.P2.85	The magnetic and the hysteresis behaviors of an amorphous spin 1/2 Heisenberg nanoparticle system N. Zaim , A. Zaim and M. Kerouad	Zaim	Noura	Faculty of Sciences -University of Moulay Ismail
Wed.P2.86	Rheological properties of polysaccharide extracted from the coast of El Jadida-Morocco Soumia Zaim , Abdelhadi Mortadi, El Houssine Benchenouf, Nabil Elghyati, Omar Cherkaoui, Rachid Nmila, Halima Rchid, Wafa Arsalane And Reddad El Mozenine	Zaim	Soumia	Université Chouaib Doukkali
Wed.P2.87	Influence of the temperature and hydrostatic pressure on efficiency and J-V characteristics of InN/GaN quantum dots intermediate band solar cell A. Amine, Y. Mir, K. Zazi, A. Oukerroum, Y. Elkouari, E. Feddi, M. Addou and M. Zazoui	Zazoui	Mimoun	chouaib Doukkali University
Wed.P2.88	SLIDING MODE CONTROL STRATEGY OF THE PIEZO CAPSUBOT Zehar Djamila , Benmahammed Khier, Cherif Aida, Behih Khalissa, Meddad Mounir, Adil Eddiai	Zehar	Djamila	Université de BBA, Algérie
Wed.P2.89	Impact of water treatment and annealing time on the optical and photoelectrochemical properties of lead oxide (PbO) Wided Zerguine , Djamilia Abdi, Farid Habelhames, Hassina Derbal-Habak, Yvan Bonnassieux, Denis Tondelier, Jenwo Choi	Zerguine	Wided	Université Ferhat Abbas Sétif-1
Wed.P2.90	Electrical and photo-electrochemical properties of conducting polymers/Indium Phosphide heterojunction devices Wided Zerguine , Djamilia Abdi, Farid Habelhames, Belkacem Nessark	Zerguine	Wided	Université Ferhat Abbas Sétif-1
Wed.P2.91	Effects Of The Volume Fraction And Temperature On The Efficiency Of Viscosity Of Nanofluids Using Molecular Dynamic Simulation S.Zeroual , M.Achehal, A.Dezairi, S.Ouaskit.	Zeroual	Soukaina	faculté des sciences Ben M'sik Université Hassan II Casablanca
Wed.P2.92	Structural and electronic properties of ternary semiconductor BN1-xAsx Zerroug Samir , Attoui Hadjira	Zerroug	Samir	Université Ferhat Abbas Setif 1
Wed.P2.93	A numerical simulation of the effect of Dust on I-V characteristics of photovoltaic panel in Saharian region Abderrezzaq Ziane , Mohamed Amrani, Mohamed Mostafaoui and Mourad Othmani	Ziane	Abderrezzaq	Energies renouvelables en Milieu Saharien, URER-MS, CDER
Wed.P2.94	Modeling and simulation of a GaAs-based MIS structure Wafaa Zibar , S.Ezzehouany, A. Jaouad, M. moussetad, A.Drighil, R.adhairi	Zibar	Wafaa	Hassan 2, faculte de science Ben Msik casablanca
Wed.P2.95	Study of mechanisms of water purification techniques: the case of seawater desalination Zoukhri Soukaina , Belkiri Zineb Rochd Sanaa, Dezairi Aouatif.	Zoukhri	Soukaina	Faculté des sciences Ben M'sick, université Hassan II



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