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

INSA of Lyon, France
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Design and technical organization of program and the abstract book of AMPSECA’2017

Dominique Guichaoua (University of Angers, France)
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Zuzanna Masewicz, (University Nicolaus Copernicus Torun, Poland)
Karolina Waszkowska, (University Nicolaus Copernicus Torun, Poland)
We would like to acknowledge the financial support, which was given to the conference by number of organizations.
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Prof. Yahia Boughaleb, President of the University Chouaib Doukkali, El Jadida, Morocco
Prof. Omar Halli, President of the University Ibn Zohr, Agadir, Morocco
Prof. Idriss Mansouri, President of the University Hassan II Casablanca, Morocco
Prof. Christian Roblédo, President of the University of Angers, France

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Prof. M. Monkade (University Chouaib Doukkali, El Jadida, Morocco)
Prof. A. Errachid (Univ-Lyon1, France)
Prof. M. Boutaous (INSA-Lyon, France)
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 Abedelwahed 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
13h00 – 18h00
18h00 – 20h00

Registration
Welcome Reception

Tuesday 28-03
8h00 – 12h00
8h15 – 8h45
8h45 – 10h00

Registration
Opening Ceremony
Plenary Lecture, chair: Yahia Bougahaleb, 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

Session 1
Chair : Anna Wazdzika

10h00.Tue «Modeling of Rare Earth-doped Silicate Glasses: Codoping Effects on the Luminescent Sites Structures and Formation of Dielectrics Nanoparticles»
Stéphane Chaussedent (University of d’Angers, Angers France)

10h20.Tue «Droplets based microfluidics and microsorbidics: new tools to manipulate liquids, solids and light at the microscale»
Abdel I. EL ABED (ENS-Cachan, Cachan, France)

Session 2
Chair : Arbaoui Abdezzahid

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

10h20.Tue «Chitosan and its derivatives for electrochemical devices»
Tan Winie (Faculty of Applied Sciences, Universiti Teknologi MARA, Selangor, Malaysia)

Coffee Break

10h40 – 11h10
11h10 – 11h50

Session 1
Chair : Abdelkrim El Ghayoury

11h10.Tue «Switchable polynuclear systems based on triazole ligands»
Triki Smal (Université de Bret, France)

11h30.Tue «Spatio-temporal studies of spin-crossover materials: watching and simulating phase transition dynamics»
Kamel Boukheddden (Paris Versailles Saint Quentin)

Session 2
Chair : Khiab Benkhouja

11h10.Tue «Highly sensitive FET sensors based on organic dielectrics»
Jean-Manuel Raimundo (Aix Marseille University, CIaNa UM CNRS)

11h30.Tue «Design of efficient nickelate-based cathodes for solid oxide fuel cells»
Elisabeth Djurado (ENSEEG-INP/IF/INR, France)

Lunch

12h00 – 14h00
14h00 – 14h30

Session 1
Chair : Abdel I. El Abed

14h00.Tue «Spin crossover nanomaterials for temperature, pressure and fluorescence sensors»
Yann Garcia (l’Université catholique de Louvain)

14h30.Tue «Metal Induced Modulation of Electronic & Optical properties of Multifunctional Ligands»
Abdelkrim El Ghayoury (University of Angers, Angers France)

Session 2
Chair : Hajja Aboudwoundah

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)

Coffee Break

16h00 – 16h30
16h30 – 18h00

Session 1
Chair : O. Bentouila

15h00.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 dielectrique e33 in BaTiO3: Rho»
S. Bahsing, A. Maillard, G. Kupel

15h30.Tue «Investigation of Structural and Optical Properties of Organic Photovoltaic Thin Films Based on MEH-PPV/P3HT fullerene blend»
I. Ameufal, N. Benhaddou, S. Azaou, M. Abd-Lefdi, Z. Sekkat

15h40.Tue «Photosensitized holography in Azo Dye Doped Polymer Films»
A. Rahmouni, Y. Bougdid, S. Moujid, D. V. Nesterenko, Z. Sekkat

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

Session 2
Chair : D. Boutheina

15h10.Tue «Optical and electrical properties of spinel Mg cobalt oxide(Mg x Co 3-x : 0.4 ) thin films»

15h30.Tue «Geometrical and material lay-up optimization of a composite-floating wind turbine blade»
O. Shah, M. Tarfaoui

15h30.Tue «Boothing the performance of solar cells with intermediate band absorbers. The case of ZnTe-O»
O. Skhouri, A. El Manouni, B. Mari

15h40.Tue «Spectral response of optoelectronic devices to solar radiation»
A. Abidin, 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
10h40 – 11h10

Coffee Break

11h10 – 11h50

Session 1
Chair : Stéphane Chaussenard

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)
11h50 Wed "Ab initio quantum mechanical calculations on third-order optical nonlinearity and two-photon absorption of branched oligothiophene (ene vinylene)" A. Karakas (Selcuk University, Konya, Turkey)

12h00 – 14h00

Lunch Break

14h00 – 14h30

Plenary Lecture Chair: Haji K. Abdelwaheda

14h00 Wed "Energy harvests ting for self-powered systems: future reality or chimera dream?" Mickaël Lallart (Laboratory of Electrical Engineering and Ferroelectricity (LGEF) of INS Lyon)

14h30 – 16h00

Session 1
Chair : Przemyslaw Płociennik

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 oligothiophene (ene vinylene)" A. Karakas (Selcuk University, Konya, Turkey)

16h00 – 16h30

Coffee Break

16h30 – 17h30

Session 1, Chair: Przemyslaw Płociennik

16h30 Wed "Functionalized Photo switchable Diarylideine-Based Polymers for Nonlinear Optical Applications" D. Guichapau, B. Koly, O. Krupka, O. Kharchenok, V. Smolk, O. Kolda, B. Sahraoui
16h50 Wed "Nonlinear Optical Properties of Azo-based new Organometallic Ruthenium and Iron Complexes" S. Taboukh, Boehdan Kulyk, J.-Luc Fillaut, Yahia Boughaleb, Bouicha Sahraoui
17h00 Wed "Some optical properties of a vinylenecene material" V. Bougdid, S. Moujdi, A. Rahmouni, D. V. Nesterenko, Z. Ssekut
17h20 Wed "CdS nanocrystals for optical and electronic properties" F. Belhora, R. El Moznine, A. Hajjaji, A. El Ballouti
17h30 Wed "Investigation of the optical properties of (Al,Ga)N:Si as a new visible light-emitting material" V. Bougdid, S. Moujdi, A. Rahmouni, D. V. Nesterenko, Z. Ssekut
17h50 Wed "Nonlinear Optical Properties of Azo-based new Organometallic Ruthenium and Iron Complexes" S. Taboukh, Boehdan Kulyk, J.-Luc Fillaut, Yahia Boughaleb, Bouicha Sahraoui
18h00 Wed "Self-organized quasi one-dimensional assembly of thiophene-5-carboxaldehyde thin films deposited by thermal evaporation" Bouaida Krupka, O. Kharchenok, V. Smolk, O. Kolda, B. Sahraoui
18h10 Wed "Anticrossing behavior of surface plasmon polariton dispersions in Metal-insulator-metal structures" S. Refki, S. Hayashi, Anouar Reinoumi, D. V. Nesterenko, Z. Ssekut

19h00 – 22h00

Gala Dinner
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<th>Invited Lectures</th>
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<td>9h00 – 10h30</td>
<td><strong>Invited Lectures</strong></td>
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<td>9h00. Thu</td>
<td>Selected methods of thin films deposition and their applications</td>
<td>Chair: Katarzyna Ozga</td>
<td><strong>Chair</strong>: Mickaël Lallart</td>
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<td>Przemysław Płociennik (UMK, Torun, Poland)</td>
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<td><strong>9h00. Thu</strong>: Fabrication of electrodeposited polyamide nanowires on carbon fiber cloth as supercapacitor electrode material**</td>
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<td><strong>Thursday 30 AMPSECA 2017</strong></td>
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<td><strong>Siri Rohana Majid</strong> (Centre for Ioniics, University of Malaya, Kuala Lumpur, Malaysia)</td>
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<td>9h20. Thu</td>
<td>Laser interferometer based measurement for error compensation in cartesion multi-axis systems</td>
<td>Younes Echerfaoui, Abderrazak El Ouafi and Ahmed Chebak</td>
<td><strong>9h30. Thu</strong>: Analysis of the Thermal Performance of Building Envelopes Incorporating Phase Change Material (PCM) for Passive Cooling Applications</td>
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<td>9h30. Thu</td>
<td>Parameters Extraction of Photovoltaic cell using a New Method Based on Experimental Current-Voltage Characteristic</td>
<td>Hamza Mokhliss, Khalid Rais</td>
<td><strong>9h40. Thu</strong>: Improvement of the availability and efficiency of induction motors using piezolectric materials</td>
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<td>9h50. Thu</td>
<td>Correlation between band structures and Quantum Hall effectGaAs/A10.15Ga0.85As nanostructure superlattice for nearinfrared detection</td>
<td>Driss Barkiss, Abdelhakim Nafidi, Abderrazak Boutremaine, Nassima Benchtaber</td>
<td><strong>10h0. Thu</strong>: Composite Materials based on Plaster</td>
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<td><strong>Session 2</strong></td>
<td><strong>Session 1</strong></td>
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<td>10h0. Thu</td>
<td>Graphene Oxide In situ reduction for the opto-structural properties of P3HT/fGO composites</td>
<td>Anass Bakour, Mimouna Baitou, Omar Bajou, and Eric Faulques</td>
<td><strong>Chair</strong>: Fakkar Abderrahim</td>
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<td>10h10. Thu</td>
<td>Nano-Indentation Of Nanocristalline’s Tungsten – A Molecular Dynamic Simulation Effect Of Penetration Velocity And Grain Size Study</td>
<td>A. Tahiri, M. Idiri, B. Boubeker, A. Hasnaoui, P. Valat-Villain</td>
<td><strong>11h0. Thu</strong>: Study of Kinetic evolution of self organized systems by Langevin equation</td>
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<td>10h20. Thu</td>
<td>Some samples analysis using Laser Induced Breakdown Spectroscopy</td>
<td>Loubna SRAYA, Sofia FARRES, Fouad Fethi and Hassan Chatel</td>
<td><strong>11h10. Thu</strong>: A Novel Approach for the Reactive Power Control of Self-Excited Induction Generator</td>
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<td>10h30 – 11h00</td>
<td><strong>Oral Lectures</strong></td>
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<td><strong>11h20. Thu</strong>: Model of piezoelectric self powered supply for portable devices using technical textile as a support</td>
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<td>11h00 – 12h00</td>
<td><strong>Oral Lectures</strong></td>
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<td><strong>11h30. Thu</strong>: Microstructural characterization and thermal analysis of FeCr-W-Y:O powders prepared by mechanical alloying</td>
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<td>12h00 – 14h00</td>
<td><strong>Lunch</strong></td>
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<td><strong>11h40. Thu</strong>: Bioelectrochemical Systems for Clean Environmental</td>
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<td><strong>Session 1</strong></td>
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<td><strong>13h50. Thu</strong>: A hybrid smart speed bump for mechanical energy harvesting</td>
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Session 2
Chair: Mohamed Monkade

14h00.Thu «Characterization and simulation of the behavior of a multilayer material for hybrid energy harvesting device»
I. Saïf, F. Bellhora, M. Yesari, A. Hajjaji

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

14h20.Thu «A molecular dynamic study of medium-range network in NiAl 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. Benazrou, 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. Shibaai, A. Hader, B. Akhir, I. Achik, A. Zouhair and Y. Bougahleb

15h00.Thu «Soiling effects on high concentration photovoltaic energy productivity in morocco»
W. Anana, F. Chaouki, B. Laarabi, D. Dahlouli, V. Gilioli, D. Verdillio, 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. Boumencar, Y. Chhibri, F.E. M'hamed Aloua, A. Sahibeddine, M. Benstitel

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

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

15h50.Thu «Comparative performance investigation of different Photovoltaic technolo- gies in Rabat»
Bouchaib Hartiti, Elisabetta Comini, M.A.H.M. Munasinghe, A. Battan, Bouchaib Haibaoui, A. Tirbiyine, A. Taoufik Y. Ait Ahmed, A. Nafidi, H. Ghanim

16h00.Thu «Characterization of Cu2ZnSnS4 (CZTS) absorber layer by sol gel method for solar cells applications»
D. Dahlioui, F. Chaouki, W. Anana, M. Abdelmjid Sebbar and A. Barhdadi

16h10.Thu «Assessment of soiling effect on energy productivity of pv modules installed in rabat»
D. Dahlouli, B. Laarabi, M. Abdelmjid Sebbar, J. Boardman, E. Menard, G. Dambrine and A. Barhdadi

16h20.Thu «Elaboration and characterization of Cu2ZnSnS4 (CZTS) absorber layer by sol gel method for solar cells applications»
Ahmed Elziti, Bouchaib Hartiti, Hicham Labrim, Salah Fadili, Abderraouf Ridah, Souace Fernalali Mari, Miguel Mollar, Philippe Thevenin

16h30.Thu «New MPPT Algorithm applied to Photovoltaic system»
A. Aouadane, A. Fakkar, Y. El Kouani

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

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

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

Abderrahim Mounem, Bouchaib Hartiti, Salah Fadili, Mariam Siadat, Philippe Thevenin

17h20.Thu «Comparative performance investigation of different pv modules in Errachidia, Morocco»
A. Elaim, A. Haibaoui, B. Hartiti, A. Ifkak, A. Battan, P. 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. Fadidi, H. Nasrellah, A. Loudiki, M.A. El Mhammedi and M. Bakasse

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

16h50.Thu «Parameter extraction of solar cell and module using simplified procedure»
M. Maouhoub

17h00.Thu «The impact of shading conditions on the PV array with improvement of incremental conductance algorithm»
O. Mshali, 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 Korbi, Bouchaib Hartiti, Salah Fadili, Abderraouf 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

Closing Ceremony
**POSTER SESSION 1 TUESDAY 28 – 03**

**Tue.P1.1** Study of nonlinear optical properties of industrial organic dyes  
**Aouatif Aamoum**, Said Taboukhat, Mina Bakasse, Hafida Bouharrarf and Yahia Boughaleb

Aouatif University, Faculty of Science

**Tue.P1.2** Co-electrodeposition of kestente Cu2ZnSnS4 quaternary compound thin films for PV applications  
**Khadija Abouabassi**, Hassan Kirou, Mohamed Youssef Messouss, Lahoucine Atourki, Khalid Bouabid, Abdesslam Elfanoussi, Mbank Nya, Ahmed Ilhal

Abouabassi 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 Ilhal

Abouabassi 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 Cu2ZnSnS4, Cu2ZnSnS4 and Cu2MnSnS4 Nanobullet Thin Films  
**Ümmühan AKIN**, Murat YILDIRM, Adem SARILMAZ, Faruk ÖZEL and Haluk ŞAFAK

Ümmühan Selçuk University

**Tue.P1.6** Isolation, Identification and antifungal activity of flavonoids and two sesquiterpenes of Asteriscus graveolens Subsp. Odorus (Schouw.) Greuter  
Hakim ALLOU, Nor Edine BARKA, Bouchab BENCHARKI

Allou Hakim FPT University Ibn Zohr Agadir

**Tue.P1.7** Photosensitization of azobenzenes in solution  
**Najat Andam**, Anour Rahmouni, Mohammed Halim, Abdelkhir Belaouchou andZouheir 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.R. Arof

Arof Abdul Karim University of Malay, 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**, Boujemaa Jaber, Hicham Labrin and Larbi Lala"ab

Bekkari Rabab Mohammed V University, Rabat, Morocco

**Tue.P1.10** Modelling of magnetic separation of nanoparticles: Application to treatment of water  
**Belkiri Zineb**, Zoukhri Soukaina, Rachid 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 Li2CdGeS4 and Li2CdSnS4  
**Khadija Berarma**, Zoulikha Charifi, and Hakim Baaziz

Berarma 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, Bouddali Akkal, Mohammed Amrani, A. Arab, H. Charifi and Zoukhri Soukaina

Boualem Soumia Applied Microelectronic Laboratory, Department of Electronic

**Tue.P1.13** Synthesis, spectral and electrochemical contribution nonlinear optical properties of new organic compounds  
**K. Bouchouit**, S. Arroudi, H. Belahou, A. Bouriaou and B. Sahraoui

Bouchouit Karim Ecole Normal Supérieure de Constantine

**Tue.P1.14** Electro-optical properties of hydrogenated amorphous silicon nitride films  
**A. Bouriche**, L. Alachaher, A. Boucheh, and Y. Masmache

Bouriche Amina Université de Tlemcen

**Tue.P1.15** Study of the effect of preferential solubility of a commercial LC mixture on the electro-optical performances of Polymer dispersed liquid crystal films  
**A. Chaisiec**, A.Bouchout 1, R.Bacha 1, A. Char 1

Chaisiec Abderrahmane Département de physique Université Constantine

**Tue.P1.16** Rapid and green microwave-assisted synthesis of quantum nanoparticles using aqueous Phenox Dactylifera L. (date palm) wood extract and evaluation of catalytic and antibacterial activity  
**Ibtissam Charti**, Adil Eddahbi, Younes Abboud and Abdelsam El Bouari

Charti Ibtissam Université Hassan II Mohammedia-Casablanca

**Tue.P1.17** Some sample analysis using Laser Induced Breakdown Spectroscopy  
Loubna Srata, Sofia Farres, Fouad Fethi and Hassan Chatie

Chatie Hassan Mohammed First University

**Tue.P1.18** Study Of Optical Properties Of Thin Films From Cerium Oxide Doped with Ytterium  
**N. Choukri**, A. Mrigal, and M. Addou

N. Choukri University Ibn Zohr,

**Tue.P1.19** Effect of erbium-doping on microstructural and morphological properties of sprayed zno Thin films  
**R. Dounia**, M. Addou, J. C. Bernede, and M. Benbrahim

R. Dounia Faculty des Science Kénitra,

**Tue.P2.1** Electromagnetic fields effects on the intersubband optical properties in gan/AlGaIn double inverse parabolic quantum wells structures for optoelectronic device  
**A. El Kadadra**, D.Aoueloualouim, K. Felloua, A. Ouerrai

El Kadadra Adile Cadi Ayyad University

**Tue.P2.2** Optical Kerr effect of photochromic molecule  

El Ouazzani Hasnaa Université d’Angers

**Tue.P2.3** Numerical and experimental study of the physic-chemical properties of nanofluids  
**S. Ezechouany**, M.Gounzari, Z.E.Hamdania, A.Moumen, S.Ouaskit

Ezechouany 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
Abala Ilham
Fatima Ezzahrae M’hamdi Aloua, Abdelaziz Sahibed-Dine,edo
Montero Youssef Chihi
Abala Ilham, Chaouib 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
Abdelhadi Kotri
Edoardo Montero, Youssef Chihi
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
Abd S. Abed
Khoury M. Bouchouit, M. Aïda, B. Sahraoui
Abed S. Shem Université 20 Aout 1955 Skikda

Tue.P2.4  Investigation of flexible composite efficiency for energy harvesting
Aboubkhr A. Haïjaij, M. Rguiti, F. Benkhmouj, Y. Boughaleb, C. Courtotis
Aboubkr Sarah Chaouib Doukkali University, El Jadida

Tue.P2.5  Enhancement of Tc and unit cell volume with the oxygen content in high Tc superconductors
Abdeljabbar Aboukassim
Abdelhakim Nafidi, Kheloum Mohamed Belloua, Essedig Youssif El Yakoobi, Hannour Abdellriem, Hassan Chalib
Abdeljabbar Aboukassim Ibn Zohr University

Tue.P2.6  The thermodynamic optimization of the equilibrium phase diagram of the Germanium-Rare earth elements
Khadija Achgar
Najim Selhaoui, Said Kerdellass, Hassan Azza and rika Tanimi
Achgar Khadija University Ibn Zohr

Tue.P2.7  A molecular simulation study of the effects of particle size and temperature on Nanofluids efficiency
EM. Achhal
Achhal El Mehdii University HASSAN II CASA

Tue.P2.8  Magnetic Penetration Depth of x(BEDT-TTF)[Cu(NCN)3]Br Organic Superconductor
Ait Ahmed
Ait Ahmed Youssef Ibn Zohr University, Agadir, Maroc

Tue.P2.9  Effect of the alloy CoFe/Cu in multilayers on the evolution of magnons
Ait Labayd
Ait Labayd Nadia Ibn Tofail

Tue.P2.10  Effect of In doping on structural, electrical, and optical properties of ZnO thin films for optoelectronic application
All Ou Salah
Benyaoues Ouakaff

Tue.P2.11  Design and Optimization of a High Precision PZT Actuator for Micro-positioning Applications
M. Yessari
M. Yessari Madia Ecole Nationale Superieure des Mines de Rba

Tue.P2.12  Diffusion and correlated process in the self propelled particles: Langevin Equation investigation
Allamah Layla
1. Allamah, A. Hadera, B. Bakir, H. Sbiaaia, I. Achika, M. Mazroui B And Y. Boughaleb

Tue.P2.13  Nuclearation and Growth of Zn and Zn–Fe alloy electrodeposition from chloride bath
Amirat Samia
Badij Mokhtar university of Annaba

Tue.P2.14  Effect of Fe–doping on structural, electrical, and optical properties of ZnO thin films for optoelectronic application
Amnaah Youssef
There is no attribution for this research work.

Tue.P2.15  Implementation of artificial intelligence methods for the management of a multi-source renewable energy system
Asoukch Basma
Hassan II

Tue.P2.16  Correlation effect between H2+ ionization and the ionization of the H2(2) components of H2(+)- clusters induced by single collision with a helium
Assouli Soufiane
Assouli Soufiane Faculty of Sciences of Rabat

Tue.P2.17  Backstepping Terminal Sliding Mode Control For Maximum Power Point Tracking Of A Photovoltaic System
Attoui Hadjira
Behih Khalissa, Bennahammerd Khier

Tue.P2.18  Encapsulation Of Venlafaxine Into β-CN Nano Particles
Attoui-Hajaouisss, Khatmi Djamel-Eddine
Attoui-Yahia Ouaaissi, Khatmi Djamel-Eddine UBJMA Anna

Tue.P2.19  Thermodynamic modeling by the calphad method and application to Cadmium-Nickel phase diagram
Azza Hassan
Azza Hassan Faculty of science, University IbnZohre Agadir

Tue.P2.20  Synthesis and Characterization of CuO Nano Particles
Bacha R
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 mat-eials Case study: Adrar clay
Bada Abdelmalek
Bada Abdelmalek University of Adrar

Tue.P2.22  Bond Graph modeling of hybrid piezoelectric PZT-PVDF Pump
Badoud Abd Essalam
Latreche Samia, Meddad Mourin, Eddiai Adil

Tue.P2.23  Microstructure and electrochemical corrosion behavior of a Pb–3wt% Sn alloy for lead-acid battery components
Bakour Zoulikha
Bakour Zoulikha university of m’sila

Tue.P2.24  Atmospheric plasma for thin film deposition
Batran Abdelkir
Behih Khalissa, Bennahammerd Khier, Chérief Alda, Zehar Djamil, Meddad Mourin, Abd Eddaii

Tue.P2.25  Investigation of solar cell performances based on Cu(In,Ga)Se2 with non-cadmum buffer layer through TCA-SILVACO tools
Bechlaghem Sara
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
Behih Khalissa Université de BBA, Algeria
Tue.P.2.55 Investigating the hardening process of fresh cement paste using impedance spectroscopy analysis
Meriem El koraychy, Abdelhadi Mortadi, Reddad El mznine, Mohamed Mekhalfia, Mouna Essaadi, Mohamed Khaledallah And Aziz El Afia
Chahbi Meriem
Université Chouaib Doukkali

Tue.P.2.56 Assesement of two multi-level inverters : neutral point clamped inverter and a new well balanced switches losses distribution topology
Hamid Chakhy, Mouna Essaadi, Mohamed Khaledallah And Aziz El Afia
Chakhy Ha
Chouaib Doukkali University

Tue.P.2.57 Calculation of switching angles minimizing THD for multilevel inverters using Lebesgue integral
Charai Mohammed
Laboratoire des Signaux, Systèmes Distribués et Intelligence Artificielle

Tue.P.2.58 Optimization of the power transferred using a DC-DC converter by non-linear methods
Aïda Chedir, Behz Khalissa, Zohar Djamilia, Mounir Meddad, Adil Eddai
Chéf Aïda
Université Bachir El Ibrahim, BBA Algerie.

Tue.P.2.59 Activation energy for the hydroapatite formation in kaolin-natural phosphate mixtures
S. Chourou, H. Belhoucivet
Chouia Fateh
Université Sétif 1, 19000 Sétif, Algérie.

Tue.P.2.60 First-Principles Calculations on Structural and Electronic Properties of compounds from groups III-V by PP-LMTO method
S. Daho, M. Ameri
Daho Salah Eddine
University Hassiba Ben Bouali, CHLEF, ALGERIE

Tue.P.2.61 Parameters Accelerated KMC Simulations and Controlled Morphological Surface of Epitaxial Growth: Case Ag/Cu (110)
M. Dardouri, A. Hassaoui, A. Hasnaoui, K. Sbisa, A. Arbaoui
Dardouri Moloudi
Chouaib Doukkali University

Tue.P.2.62 Synthesis of an iron phosphate glass in the presence of a complex waste mixture
A. Djeridi, N. Kamel, A. Benmounah, D. Moudir S. Kamarn, Y. Mouheb, F. Aeschiche
Djeridi Abdeloumene
University M. Hamed Bouguara of Boumerdes, Boumerdès, 35000, Algeria

Tue.P.2.63 Optimization of Photovoltaic System Power by a New Hyperbolic Tangent Approximation of the of Artificial Neural Network MPPT under Matlab System
Fayrouz Dkhichi
Fayrouz
Faculty of Sciences and Techniques of Mohammedia

Tue.P.2.64 Mixed convection in a three-dimensionalventilated cavity with a partially heated wall
Hicham Doghmi, Bissam Abourida, Lahoucine Belarche, Mohamed Saddad, Meriem Ouzaouit
Doghmi Hicham
Ecole Nationale des Sciences Appliquées d’Agadir

Tue.P.2.65 Microwave-assisted approach for rapid synthesis of nanoparticles using Poly (alcohol vinyl co-acetate of vinyl) and their antibacterial activity
Adil Eddahbi
Adil
Université Hassan II Casablanca, Morocco

Tue.P.2.66 Smart Sensor for Fault-Tolerant Control of the Induction Motor
Mekhalfia Fadhila, Khodja Djalah Edine, Meddad Mounir, Eddai Adil
Eddai Adil
Université Hassan II de Casablanca

Tue.P.2.67 Structure stability and diffusion mechanism of pt tetramers on cu (110) surfaces and au tetramers on ag (110) surfaces
Mekhalfia Fadhila, Khodja Djalah Edine, Meddad Mounir, Eddai Adil
Eddai Adil
HASSAN I

Tue.P.2.68 Giant magnetoresistance of hybrid magnetic structures [CoZr/Co/CoZr]n (type II) or[CoZr/CoZr/CoZr/Cu]m (type II) in the case of Ti/Zr(0001) system
El Ailouidi, A. Ghouz, Alika Fakhri M. and El Harfaoui
El Ailouidi Kamar
Laboratoire physique de la matière condense (LPMC)

Tue.P.2.69 Simulation of thin films growth: application of the modified embedded atom method in the case of Ti/Zr(0001) system
L. El Atouani, A. El Hasnaoui, M. Mazroui, Y. El Korarchy
El Atouani Lakbira
Organization : laboratoire des sciences des Matériaux des Milieux et de la Modélisation (SS3M) , Faculté Polydisciplinaire de Khouribga , Université Hassan 1er 26000 Settat.

Tue.P.2.70 Homoeopitaxial study of silver on ag (111) by the simulation of molecular dynamics
El Azak Hicham
HASSAN I

Tue.P.2.71 Graphene-based thermoplastic polymer nanocomposites assembled to harvesting energy
Nada El Bouljani, Abdelowahed Hajajj and Fouad Belhora
El Bouljani Nada
Chouaib Doukkali University, El Jadida

Tue.P.2.72 A simple method at room temperature for the preparation of nanostructured Nano-oxides
Amine El Farrouji, Abderahim Chibab Eddine, Larbi El Firdoussi, Mustapha Ait Ali
El Farrouji Amine
Faculté des sciences Ibn zohr

Tue.P.2.73 Thermal Energy Harvesting Using Oil Convections and Pyroelectric Effect
Fatima Zahra El Fatnani, W. Ahmedzou, Fouad Belhora, Daniel Guyomar, Yaha Bougahlbe
El Fatnani Fatima Zahra
Univ. Hassan II de Casablanca / INSA de Lyon

Tue.P.2.74 Parabolic trough collectors for industrial process heat
Badreddine El Ghazzani, Radia Atif El Cadi, Omar Till Mensour, Khalid Bousaid, Ahmed Thal
El Ghazzani Badreddine
IbnZohr university

Tue.P.2.75 Impedance spectroscopy as a tool to evaluate the performance of solar cell
El Ghayati Nabil, Mortadi Abdeldah, Zaim Soumia, Chahid El Ghassai, Zradba Abdelham, Cherkoua Omar And El Mznine Reddad
El Ghayati Nabil
Université Chouaib Doukkali

Tue.P.2.76 Vortex Dynamics and Flux Flow Instabilities in YBaCO Thin Film
El Hamidi Habiba
University of Ibn Zohr,

Tue.P.2.77 Magnetic properties of an antiferromagnetic core/shell cubic nanowire
El Hamri Mariam
El Hamri Mariam
Moulay Ismail university

Tue.P.2.78 Hysteresis loop behaviors of a decorated cubic nanotube
El Hamri Mariam
El Hamri Mariam
Moulay Ismail university

Tue.P.2.79 Electromagnetic fields effects on the intersubband optical properties in GaN/AlGaN double heterojunctions by a parabolic quantum well for structures with optoelectronic device
El Kadadrag, A. Daboueialoum, K. Fellouaii, A. Ouериaghi
El Kadadrag Adile
Cadi Ayyad University

Tue.P.2.80 The diffusion behavior of homo and hetero dimers on channeled gold surface
El Korachy, El Yakout
Hassan II University of Casablanca

Tue.P.2.81 Theoretical and experimental study of laser Granulometry
El Mehdi Zaidi
Zaidi faculty of sciences Ben M’sik (URAC.10). University Hassan II de Casablanca Morocco
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<th>Topic</th>
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<td>Harvesting energy from vehicle suspension by a hybrid system</td>
<td>Nizar Gazari, Mahmoud El Mouden, Abdelouahed Hajjaji</td>
<td>El Mouden  Mahmoued National School of Applied Sciences, Chouaib Doukkali University, El Jadida, Morocco</td>
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<td>Multifunctional composites based carbon nanotubes for marine energy conversion systems</td>
<td>Ahmed El Mouden, Mostapha Tarfousi, and Khalid Laﬁdi</td>
<td>El Mouden  Ahmed ENSTA Bretagne</td>
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<td>Down conversion in Tb3+/Yb3+ doped Silica-Hafnia glass-ceramic</td>
<td>Mariem El Ouafi, Saloua Belmokhtar, Adel Bouajay, Mohammed Reda Britel, Crotsa Armellini, Lida Zur, Maurizio Ferrari</td>
<td>El Ouafi  Mariem ENSATanger</td>
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<td>Detection of Bending Cracks in Multi-layer Ceramic Capacitors (MLCC) by Pulsed Thermography</td>
<td>El-Amiri, Abderrahim Saﬁ, Ahmed Elhasnaoua, Sami Sahnoun</td>
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<td>Multi-hopping processes in ferroelectric ceramics of lithium-niobate materials</td>
<td>El Bachiri, B. Bennani, A. Lounarid, T. Derrara</td>
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<tr>
<td>Thermo physical characterization of sustainable insulation materials made from textiles waste</td>
<td>Mohamed El Wazna, Mohamed El Fatiti, Ablas El Bousari, and O Cherkoua</td>
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<td>The study of electrical properties in p-type 70Ge: Ga near the metal-insulator transition by applying the scaling laws</td>
<td>El M. Errai, A. El Kaaouachi, and A. Chakhman</td>
<td>El M. Errai  Mohamed University of Sciences, Agadir, Morocco</td>
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<td>The study of the contribution electron-electron interaction, Zeeman spin-splittng , weak localization effects and the sum of these three effects in correct materials</td>
<td>El M. Errai, A. El Kaaouachi, and A. Chakhman</td>
<td>El M. Errai  Mohamed University of Sciences, Agadir, Morocco</td>
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<td>The climate Study of a Moroccan photovoltaic greenhouse</td>
<td>Ezzarri, Kabira, El Hamdania, E. Kh. Eini, A. Hajjaji</td>
<td>El Zarka  Mohamed University Hassan II</td>
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<td>Simulation of the glass transition in amorphous polymers</td>
<td>Essaidi, Kabira, El Hamdania, E. Kh. Eini, A. Hajjaji</td>
<td>Essaidi  Mohamed University Hassan II</td>
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<td>Evaluation of intrinsic parameters of piezoelectric polymer composite for energy harvesters</td>
<td>Farhan, M. Gruitt, E. Edlai, M. Mazroui, M. Meddad, and C. Courtails</td>
<td>Farhan  Rida University hassan2 Casablanca</td>
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<tr>
<td>Structural and elastic properties of TiN and AlN compounds: First principles study</td>
<td>Meriem Fodil, Mohamed Amiri, Amina Touila</td>
<td>Meriem  Djhali liabs Sidi Bel Abbes, Algerie</td>
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<td>Harvesting energy from vehicle suspension by a hybrid system</td>
<td>Nizar Gazari, Mahmoud El Mouden, Abdelouahed Hajjaji</td>
<td>Nizar  Chouaib Doukkali University, El Jadida</td>
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<tr>
<td>Preparation of hydroxyapatite naturelle a partir de l’os bovin par calcination a differentes temperatures</td>
<td>Ghanmout, Zahia, Université de m’sila</td>
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<td>Numerical and experimental study of the thermal conductivity of nanofluids</td>
<td>Gounzari, Mohamed Amiri, A. Moumen, S. Ouaskit</td>
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<td>Detailed study of charge density wave dynamics in a one dimensional compound</td>
<td>Haddaba, S. Arbaoui, M. Qari</td>
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<td>The combined effect of repulsion zone and initial velocity on Viscek model</td>
<td>Hamdani, A. Moumen, S. Ouaskit</td>
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<td><strong>Wed.P1.1</strong></td>
<td>Some sample analysis using Laser Induced Breakdown Spectroscopy</td>
<td>Loubna Srata, Sofia Farres, Fouad Fethi and Hassan Chatei</td>
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<td><strong>Wed.P1.2</strong></td>
<td>Electrochemical Polymerization and Physico-Chemical Characterization of Functionalized Indenofluorenes</td>
<td>Viviana Figà, Bohdan Kulyk, Mehmet Ozdemir, Hakan Usta</td>
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<td><strong>Wed.P1.4</strong></td>
<td>Ab initio calculation of fundamental properties of cau3g1-x-1 alloys in the rock-salt</td>
<td>Ghebouli, Mohamed Amine</td>
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<td><strong>Wed.P1.5</strong></td>
<td>Theoretical investigations of third-order nonlinear optical behaviour of p-N, N'-dimethylaminetetrafluvalene derivatives</td>
<td>Asli Karakas, Mustafa Karakaya, Mehmet Taser, Nurettin Eren, Y. El Kouari, Bouchotha Sahraoui</td>
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<td><strong>Wed.P1.6</strong></td>
<td>Strong light-matter coupling regime in gan quantum well: polariton laser</td>
<td>Khalid Fellaoui, Cadi Ayyad University, Marrakech, Faculty of Sciences Semlalia</td>
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<td><strong>Wed.P1.7</strong></td>
<td>Optical properties of Zn-based semiconductor (znx: X= S, Se and Te) and their applications in the radiative cooling</td>
<td>Laatitoui, Soumia, Ecole Nationale des Sciences Appliquées Kharbiba, Université Hassan 1er</td>
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<td><strong>Wed.P1.8</strong></td>
<td>Anomalous behaviour of hyperbolic heat equation at high frequencies and a very short time interval</td>
<td>Mizani, Souiya, Faculty of Sciences Ben M’sik (URAC.10), University Hassan II Casablanca</td>
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<td><strong>Wed.P1.9</strong></td>
<td>The Effect of Pressure on the Permeability of Thin films of Permalloy Nanoparticles Diluted in an Insulating Matrix Alumina (Ni81Fe19)1-x(A1203)x</td>
<td>Mobarek, Dib, IbnoTofail, Kenitra</td>
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<td><strong>Wed.P1.10</strong></td>
<td>Nouvelle série de complexes à transition de spin à base de ligands polyazotés et de cyanocarbamion à</td>
<td>Rachid MOTELI, Fatima SETIFI, Smail TRIKI, Abdelslem BEN-TAMA, El Mestfa El Hadrami</td>
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<td><strong>Wed.P1.11</strong></td>
<td>Phototuning of Fano Resonance in Metal-Dielectric Multilayer Structures</td>
<td>Nesterenko, Dmitry, Moroccan Foundation for Science, Innovation and Research (MAScIR)</td>
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<td><strong>Wed.P1.12</strong></td>
<td>Comparative study of converters controlled by Auto-Scaling Variable Step-size based MPPT for a photovoltaic system in abrupt change of weather conditions</td>
<td>Ouoba, David, Faculty of Sciences and Technologies Mohammed</td>
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<td>Modeling of Metamaterials-Waveguide Solar Cells based on the Transfer Matrix Method</td>
<td>Shabat, Mohammed, Islamic University of Gaza</td>
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<td><strong>Wed.P1.14</strong></td>
<td>General synthesis of n-membered cyclic sulfamides</td>
<td>Fatma-Zohra Smaïne, Jean-Yves Winum</td>
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<td><strong>Wed.P1.21</strong></td>
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<td>Wed.P2.3</td>
<td>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 Feddoua, Dridi Aziz</td>
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<td>Wed.P2.4</td>
<td>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 Feddoua, Dridi Aziz</td>
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<td>Wed.P2.5</td>
<td>Nanostructured LiO-CoPt dot arrays with perpendicular magnetic anisotropy A. Hannon, A. Nafidi, L. Bardotti, B. Prélv, F. Tournus, D. Mailly, J.-P. Bucher</td>
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<td>Wed.P2.6</td>
<td>Entanglement and Correlation Functions in 1D Extended Hubbard Model S. Harir, A. Zouhair, M. Benai and Y. Boughaleb</td>
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<td>Wed.P2.7</td>
<td>Molecular dynamics study of growth and interface structure during aluminum deposition on n(001) substrate at high temperature Hassan Assi, H. El Azrak, F. Eddai, M. Dardouri, A. Makan, K. Sbiaai, A. Tabyaoui, A. Fathi, A. Hassaoui</td>
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<td>Mechanism and kinetics study of the thermal desorption and spinel (N3/4O12) crystallization of halloysite by differential thermal analysis (DTA) Menad Heraiz, Amina Raghida, Foudil Sahouna, Chocine Belhouchet and Amr Ouaila</td>
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<td>Microwave Energy Assisted Preparation of Silver Nanoparticles-Latex Copolymer Nanocomposites: Application of the Experimental Plan Method Mina Ider, Said Ouakhtit, Alain Jouanneaux, Abdel Hadi Kasiba</td>
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<td>Wed.P2.10</td>
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<td>Wed.P2.11</td>
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<td>Solution of the Dickey model for N = 3 with a diamagnetic term A2 Kadim Ghizlane, Sahbi Zineb, and Benai Mohamed</td>
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Lemdekk 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. Lemoked, K. Benkhousa, K. Jaafar, M. Bettach and A. Eddiai
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Wed.P2.32 On the Sol-gel synthesis and structure of strontium cobaltite as cathode Sofiane Makhloufi, Mahmoud Omani
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Wed.P2.33 Analysis of Optical Radiation Efficiency of nanoparticles on the basis of different dielectric constants of surrounding materials Masud R. Rashel, Mohouyidine Tetnacini, and Hassan Sarwar
Rashel Mohamed R. University of Evora

Wed.P2.34 Energetics of diffusion on the (110) surfaces of Ag, Au, Pt and Cu: an embedded atom model study I. Matran, E. Elkoraychy, K. Shibaai, M. Mazroui, Y. Boughaleb and R.Ferrando
Matran E. Université de Toulouse III Paul Sabatier, Toulouse, France

Wed.P2.35 Real Time Estimation of MPPT with Non-iterative Algorithm Md Tofael Ahmed, Teresa Gonçalves, and Mohouyidine Tetnacini
Tofael Md Ahmed University of Evora

Wed.P2.36 Fault Detection in Induction Machine by Application smart sensors materials Medmad Mounir, science and technology
Mour periodic and Medkour Youcef Université de Frhet Abbas Setif1, Algerie

Wed.P2.37 On the Flocculation process during wastewater treatment using dielectric spectroscopy Medkour Youcef, L. Birba, Nour El Houda Hissi, Saida Bahsine, Noureddine Labrag and Ahmed Tirbiyine
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Wed.P2.38 The effects of B2O3 addition on the properties of anorthite prepared from Algerian kaolin Afaf Mokhtari, Hocine Behouchet
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Wed.P2.39 Simulation of Trived left handed waveguide structure solar cell model of silicon and silicon nitride substrates Bouchara Mokhtari, Mokhtari Bouchara University of Moulay Ismail, Meknes
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Mour periodic and Medkour Youcef Université de Frhet Abbas Setif1, Algerie

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Wed.P2.43 Dielectric spectroscopy as a tool to evaluate and monitoring the flocculation process during industrial wastewater treatment Abdelhadi Mortadi, El Ghaouti Chahida, Abbou Charkaoui, El melouky, Omar Charkaoui, Abdelkrim Zrada, and Reddad El mounine
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Mouthi Issam Université Ibn Zohr,

Wed.P2.45 Theoretical investigation on structural, elastic and electronic properties of cubic perovskite LaAIO3 and XIO3, (X=Ca, Sr, Pb) Mousjri Hayat Laboratory of the Condensed Matter Physics
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Mousjri Hayat Laboratory of the Condensed Matter Physics
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A. Souilli, A. Medkour, A. Medjhed, M. Reffas, K. Haddadi, H. Wafae, K. Abderrafi, A. Eddahbi, S. Ouaskit
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Determination of neoclassical transport coefficients in dusty plasma
R. Mouifi, A. Dezari
Mouifi Rachida University Hassan II. Casablanca, Morocco

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A. Moumen, H. Wafae, K. Abderrafi, A. Eddahbi, S. Ouaskit
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A. Mrigal, M. Addou, M. El Jouad, and N. Choukri
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M. Nachtane, M. Tafraoui, D. Slaoufou
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Aamina Ragihi, Menaal Herir, and Fouad Sahounne
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Moudi Ouaaou, Foudi Sahounne, Amour Ouaji
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M. Raizli, D. Abouelouaaslim, Aouraghi
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Saoudi Amer Ferhat Abbas university, Algeria

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Hassiba Teghidet, Lila Chaal, Suzanne Joret And Boualem Saidani
Teghidet Hassiba Université de Béjaia, Algérie

Identification of suitable storage materials for solar thermal power plant using selection methodology
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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, A. Bifadene, M. Addou and M. Zazoui
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Wed.P2.83 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.P2.84 The magnetic and the hysteresis behaviors of an amorphous spin 1/2 Heisenberg nanoparticle system
N. Zaim, A. Zaim and M. Kerouad
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Wed.P2.85 Electrical and photo-electrochemical properties of conducting polymers/Indium Phosphide heterojunction devices
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Abderrezaz Ziane, Mohamed Amrani, Mohamed Mostafaoui and Mouad Othmani
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Wed.P2.92 The hysteretic and magnetic properties of a nanoparticle with disordered interface
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Wed.P2.93 Study of mechanisms of water purification techniques: the case of seawater desalination
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Zoukhir Soukaina Faculté des sienes Ben Msik, université Hassan II