

Fifth International Symposium on Dielectric Materials and Applications

**ISyDMA'5 Virtual Edition**

**April 15-17 2020**

## **DETAILED PROGRAM**

Wednesday, April 15<sup>th</sup> 2020

### **Opening ceremony**

Since 15:00 - 14:00 (GMT)

- Documentary about ISyDMA Symposiums
- ISyDMA'5: data Conference
- Speech of the chair of ISyDMA'5: Pr. ACHOUR Mohammed Essaid
- Speech of the chair of ISyDMA'5: Pr. OUERIAGLI Amane
- Speech of the chair of ISyDMA'5: Pr. LEBLANC Roger M

### **Talk Session: 1**

#### **Talk 1:**

Pr. Leblanc Roger  
University of Miami, 1301 Memorial Drive  
États-Unis

Email : [rml@miami.edu](mailto:rml@miami.edu);

*Physicochemical Characterization of a Novel Carbon Nanomaterial: Carbon Dots*

#### **Talk 2:**

Pr. Cho Yasuo  
Research Institute of Electrical Communication, Tohoku University, Sendai  
Japan

Email : [yasuocho@riec.tohoku.ac.jp](mailto:yasuocho@riec.tohoku.ac.jp);

*Scanning nonlinear dielectric microscopy nano science and technology for next generation ultra-high density ferroelectric data storage beyond hard disk drive and flash memory*

#### **Talk 3:**

Pr. San Sait Eren  
Department of Physics, Kocaeli University, Kocaeli  
Turkey

Email : [rensan@gmail.com](mailto:rensan@gmail.com);

*Dielectric Analysis of cheap polymeric structures for Electronics*

**Talk 4:**

**Pr. ALONTSEVA Darya**  
East-Kazakhstan State Technical University, Ust-Kamenogorsk,  
Kazakhstan

**Email : [dalontseva@mail.ru](mailto:dalontseva@mail.ru);**

*Fabrication and characterization of Zi microplasma coatings for biomedical applications*

**Poster session : Session 1**

**[PP1, PP2,....., PP20](#)**

**Thursday, April 16th 2020**

**Talk Session: 2**

**Talk 5:**

**Pr. Hikmat S. Hilal**  
An-Najah National University, Nablus  
Palestine

**Email : [hshilal@najah.edu](mailto:hshilal@najah.edu);**

*Charge transfer catalysts embedded inside dielectric polymer matrix-modified metal chalcogenide film electrodes in photoelectrochemical processes*

**Talk 6:**

**Pr. Tachafine Amina**  
Unité de Dynamique et Structure des Matériaux Moléculaires, Université du Littoral ,  
Calais  
France

**Email : [tachafin@univ-littoral.fr](mailto:tachafin@univ-littoral.fr);**

*Doping effect on macroscopic and nanoscopic electrical properties of BST and BZT thin films synthesized by sol-gel process*

**Talk 7:**

**Pr. Aktaş Bülent**  
Harran University osmanbey campus Engineering Faculty, Mechanical Engineering  
Department, Sanliurfa  
Turkey

**Email : [baktas@harran.edu.tr](mailto:baktas@harran.edu.tr);**

*Ionic conductivity of BaO-doped 8 mol% yttria-stabilized cubic zirconia (8YSZ)*

**Talk 8:**

**Pr. TRIKI Asma**  
Faculty of Sciences of Sfax, 3018 Sfax, University of Sfax., Sfax  
Tunisia

Email : [trikilamacop@yahoo.fr](mailto:trikilamacop@yahoo.fr);

*Dielectric analysis of interfacial polarization of Jute-carbon black hybrid composite materials*

**Talk 9:**

**Pr. BOUHAFS Benamar**

Université de Tlemcen, Faculté des Sciences, Laboratoire de Physique Théorique,  
Tlemcen  
Algeria

Email : [bouhafs\\_ben@yahoo.fr](mailto:bouhafs_ben@yahoo.fr);

*Effect of Porous Silicon Carbide on Resonant Coupled Modes in a Multilayer Sensor*

**Break**

**Poster session : Session 2**

[PP21, PP2, ..... , PP40](#)

**Break**

**Talk Session: 3**

**Talk 10:**

**Pr. TSIULYANU Dumitru**

Department of Physics, Technical University, , Chisinau  
Moldova

Email : [tsiudima@gmail.com](mailto:tsiudima@gmail.com);

**Talk 11:**

**Pr. Vaseashta Ashok**

International Clean Water Institute, Manassas, VA USA,

Email : [prof.vaseashta@ieee.org](mailto:prof.vaseashta@ieee.org);[avforesight2018@gmail.com](mailto:avforesight2018@gmail.com);

*Water Quality-Environmental Factors and Impact*

**Talk 12:**

**Pr. Odagawa Hiroyuki**

Kumamoto College, Koshi-shi,, Kumamoto  
Japan

Email : [odagawa@kumamoto-nct.ac.jp](mailto:odagawa@kumamoto-nct.ac.jp) ;

*Application of scanning nonlinear dielectric microscopy for various piezoelectric domain structure measurement*

**Talk 13:**

**Pr. Zdanowska-Frańczek Maria  
Mariana Smoluchowskiego 17, Poznań  
Poland**

**Email : [mzf@ifmpan.poznan.pl](mailto:mzf@ifmpan.poznan.pl);**

*Influence of pressure on electrical properties of proton conductors*

**Talk 14:**

**Pr. Fathy Salman  
Benha University, Faculty of Science., Benha  
Egypt**

**Email : [prof.fathy.salman@gmail.com](mailto:prof.fathy.salman@gmail.com);**

*A simple Analysis of Complex impedance Measurements*

**Break**

**Poster session : Session 3**

**PP41, PP42, .....**

**Friday, April 17th 2020**

**Talk Session: 4**

**Talk 15:**

**Pr. Striccoli Marinella  
University of Bari  
CNR-IPCF Bari, Italy, Bari  
Italy**

**Email : [m.striccoli@ba.ipcf.cnr.it](mailto:m.striccoli@ba.ipcf.cnr.it) ;**

*Nanocrystal Coupled Systems for Energy and Charge Transfer Processes*

**Talk 16:**

**Pr. Curri Lucia  
University of Bari  
CNR-IPCF Bari, Italy, Bari  
Italy**

**Email : [m.striccoli@ba.ipcf.cnr.it](mailto:m.striccoli@ba.ipcf.cnr.it) ;**

*Colloidal nanomaterials: engineering surface chemistry for life science applications*

**Talk 17:**

**Pr. Khenfouch Mohammed  
Africa Graphene Center, Physics department, Eureka building, CSET, UNISA-Florida  
Campus, Roodepoort, 1709 Gauteng, South Africa,**

**South Africa**

**Email : [khenfouch@yahoo.fr](mailto:khenfouch@yahoo.fr);**

*Advanced 2D materials and their applications*

**Talk 18:**

**Pr. Kamanina Natalia**

**Kadetskaya Liniya V.O., dom.5, korpus 2, St.- Petersburg, 199053, ., St.- Petersburg,  
Russia**

**Email : [nykamanina@mail.ru](mailto:nykamanina@mail.ru);**

*Nanotechnology approaches in solar energy, laser and general photonics materials*

**Talk 19:**

**Pr. Chaynane Rachid**

**Faculté des Sciences Appliquées Ait Melloul Université Ibno Zohr, Agadir  
Morocco**

**Email : [r.chaynane@uiz.ac.ma](mailto:r.chaynane@uiz.ac.ma);**

*Effective Parameters Extraction of Metamaterials based on Split-Ring Resonators*

**Break**

**Talk Session: 5**

**Talk 20:**

**Pr. Cyril Popov**

**Heinrich-Plett-Str. 40, Kassel  
Germany**

**Email : [popov@ina.uni-kassel.de](mailto:popov@ina.uni-kassel.de);**

*Diamond nanostructures for photonic and sensor applications*

**Talk 21:**

**Pr. Rabaa Hassan**

**BP 133, Kenitra 14000, Morocco, Kenitra  
Morocco**

**Email : [hrabaa@hotmail.fr](mailto:hrabaa@hotmail.fr);**

*Cluster modeling approach of hydroxylated compounds [Nb<sub>2</sub>O<sub>5</sub>]<sub>n</sub> with  
(n=2,5,6) coordinated to glucose and cysteine probing Inhibition Activities*

**Talk 22:**

**Pr. FRECHERO Marisa**

**Universidad Nacional del Sur. Bahía Blanca, Buenos Aires  
Argentina**

**Email : [frechero@uns.edu.ar](mailto:frechero@uns.edu.ar) ;**

**Talk 23:**

**Pr. Graca M. Pedro Fernandes**  
Physics Department, Aveiro  
Portugal  
Email : [mpfg@ua.pt](mailto:mpfg@ua.pt);

**Talk 24:**

**Pr. Goumri Said Souraya**  
College of Science, Alfaisal University,, Riyadh  
Saudi Arabia  
Email : [sosaid@alfaisal.edu](mailto:sosaid@alfaisal.edu);

**Break**

**Talk Session: 6**

**Talk 25:**

**Pr. Barzinjy Azeez**  
Salahaddin University-Erbil, Kurdistan Region, Iraq, Erbil  
Iraq  
Email : [azeez.azeez@su.edu.krd](mailto:azeez.azeez@su.edu.krd);  
*Green Synthesis and Characterization of Zinc Oxide Nanoparticles: the effects of plant extracts and zinc salts*

**Talk 26:**

**Pr. Mousa Marwan S.**  
Mu'tah University,, Al-Karak  
Jordan  
Email : [marwansmousa@yahoo.com](mailto:marwansmousa@yahoo.com);[mmousa@mutah.edu.jo](mailto:mmousa@mutah.edu.jo);  
*Mechanism of the Electron Emission from cathodes consist of metallic or fiber core coated with layer of Polystyrene or Polyethylene*

**Talk 27:**

**Pr. Saadoune Ismael**  
Boulevard Prince Moulay Abdellah, Marrakech 40000, MARRAKECH  
Morocco  
Email : [i.saadoune@uca.ma](mailto:i.saadoune@uca.ma);

**Talk 28:**

**Pr. Turkey Gamal**  
12622-Giza, Cairo  
Egypt  
Email : [gamalturky10@gmail.com](mailto:gamalturky10@gmail.com);

***Nanostructured Materials & Dielectric Investigations***

**Talk 29:**

**Pr. Soreto Sílvia**

**Campus Universitário de Santiago, 3810-193 Aveiro, Aveiro  
Portugal**

**Email : [silvia.soreto@ua.pt](mailto:silvia.soreto@ua.pt);**

***Synthesis of lithium ferrites nanoparticles by biogenic method***

**Talk 30:**

**Pr. EHLALI Souad**

**Université Mohamed V - Faculté des Sciences de Rabat, Rabat  
Morocco**

**Email : [eh.souad@gmail.com](mailto:eh.souad@gmail.com);**

***Energy Harvesting Technologies in Wireless Sensor Networks (EHT-WSN): A Review***

**Closing Ceremony  
Since 14:00 - 15:00 (GMT)**

- **Speech of the chair of ISyDMA'5: Pr. M. Mabrouki**
- **Speech of the chair of ISyDMA'5: Pr. M. Ait Ali**
- **Speech of the chair of ISyDMA'5: Pr. A. Tachafine**

**Poster Presentations (Session 1)**

***PP1 : Electrochemical Impedance Spectroscopy study of Zinc electrodeposition***

EL FAZAZI Asmae, Ibn Tofail University , Kenitra, Morocco [asmae.elfazazi@uit.ac.ma](mailto:asmae.elfazazi@uit.ac.ma);

***PP2 : Influence of RF-power on the optical, structural, and morphological properties of ZnS:Cr thin films***

Cheikh Mohamed, Faculty of Sciences Semlalia, Cadi Ayyad University , MARRAKECH, Morocco  
[cheikhmohamed5@gmail.com](mailto:cheikhmohamed5@gmail.com);

***PP3 : Structural and impedance spectroscopic study of Zinc doped in tetragonal tungsten bronze***

BENDAHHOU (1) Amine, Faculté des sciences Oujda , Nador, Morocco  
[amine.bendahhou@usmba.ac.ma](mailto:amine.bendahhou@usmba.ac.ma);

***PP4 : Relationships between crystalline structure and dielectric properties in Sr<sub>2</sub>NdxSm(1-x)Ti<sub>2</sub>Nb<sub>3</sub>O<sub>15</sub> ceramics***

CHOURTI Karim, Multidisciplinary Faculty of Nador, Department of Chemistry, Mohammed First University , Nador, Morocco [chokarim@gmail.com](mailto:chokarim@gmail.com);

***PP5 : Corrosion inhibition performance of two imidazole derivatives on mild steel in 1M hydrochloric acid: electrochemical, thermodynamical and theoretical calculation***  
ARIBOU Zakia, Ibn Tofail University , Kenitra, Morocco [zakia.aribou@gmail.com](mailto:zakia.aribou@gmail.com);

***PP6 : Effect of incorporating two gate insulators (SiO<sub>2</sub> and Al<sub>2</sub>O<sub>3</sub>) on the performance of the a-IGZO-based TFT transistor***  
TAMOUM Mostefa, Université Djillali Liabes de Sidi Bel Abbes , Sidi Bel Abbes, Algeria [tamoummostefa@yahoo.fr](mailto:tamoummostefa@yahoo.fr);

***PP7 : Effect of microcrystalline cellulose on dielectric properties of latex hybrid composites***  
LARGUECH Salma, Faculty of Sciences of Sfax, University of Sfax, BP 3018 Sfax, Tunisia , Sfax, Tunisia [salma.larguech1993@gmail.com](mailto:salma.larguech1993@gmail.com);

***PP8 : Characterization and thermal conductivity of cellulose based cement composite***  
RBIHI SARA, Université Sultan Moulay Slimane Faculté des Sciences et Techniques Beni Mellal , Beni Mellal, Morocco [rbihi.sara@gmail.com](mailto:rbihi.sara@gmail.com);

***PP9 : Using different DFT implementations for studying structural, electronic and electrical properties of tetragonal BaTiO<sub>3</sub> and PbTiO<sub>3</sub>***  
Amounas said, Polydisciplinary Faculty of Ouarzazate, Ibn Zohr University , Ouarzazate, Morocco [physiquesalam@gmail.com](mailto:physiquesalam@gmail.com);

***PP10 : Electrical study of a composite material based on an epoxy polymer containing cyclotriphosphazene***  
DAGDAG Omar, Ibn Tofail University , Kenitra, Morocco [omar.dagdag@uit.ac.ma](mailto:omar.dagdag@uit.ac.ma);

***PP11 : Coupled Heat Transfer by Natural Convection and Surface Radiation in an Open Cavity***  
Charqui Zouhair, Faculty of Sciences Semlalia, Cadi Ayyad University , MARRAKECH, Morocco [zouhair.charqui@edu.uca.ac.ma](mailto:zouhair.charqui@edu.uca.ac.ma);

***PP12 : Numerical study of AgInTe<sub>2</sub> solar cells using SCAPS***  
Benseddik Nadia, Laboratory of Applied Microelectronics, Department of Electronics, , Sidi Bel Abbes, Algeria [benseddik@yahoo.fr](mailto:benseddik@yahoo.fr);

***PP13 : Crossover from VRH E-S to NNR VRH in 2D p-GaAs at B=0***  
DLIMI SAID, Physics department, University Ibn zohr, Faculty of sciences, , Agadir, Morocco [dlimi1975@gmail.com](mailto:dlimi1975@gmail.com);

***PP14 : Contribution to the study of elementary magnetic excitations in multilayer Fe/Pt systems***  
KARAM MAROUAN, Faculty of Sciences. University of Ibn Tofail.Kenitra , Kenitra, Morocco [marouan.karam@uit.ac.ma](mailto:marouan.karam@uit.ac.ma);

***PP15 : Natural convection in a square cavity containing two heat-generating conducting body***  
Hidki Rachid, Faculty of Sciences Semlalia, Cadi Ayyad University , MARRAKECH, Morocco [rachid.hidki@gmail.com](mailto:rachid.hidki@gmail.com);

***PP16 : Numerical simulation of natural convection in partially open cavity with vertical conductive obstacle***  
Azagar Khalid, Faculty of Sciences Semlalia, Cadi Ayyad University , MARRAKECH, Morocco [khalid.azagar@edu.uca.ac.ma](mailto:khalid.azagar@edu.uca.ac.ma);



***PP17 : Thermal and electrical characterization of Poly(butylene succinate) (PBS) / Polypropylene (PP) with different blend ratio***

TAKTAK Sirine, Faculty of Sciences of Sfax, University of Sfax, BP 3018 Sfax, Tunisia , Sfax, Tunisia [taktaksirine8@gmail.com](mailto:taktaksirine8@gmail.com);

***PP18 : Influence of Heat Sources/Sinks on Unsteady Natural Convection in a Differentially Heated Enclosure Temperature***

Boukendil Mohammed, Faculty of Sciences Semlalia, Cadi Ayyad University , MARRAKECH, Morocco [m.boukendil@uca.ac.ma](mailto:m.boukendil@uca.ac.ma);

***PP19 : Carriers mobility determination in PS/PANI films by the potential decay technique***

Mezdour Douniazad, Jijel University , Jijel, Algeria [mezdourd@gmail.com](mailto:mezdourd@gmail.com);

***PP20 : The temperature effect on the physical properties of PbS nanocrystalline developed by the chemical bath deposition method (CBD)***

El madani Aziz, Ibn tofail university , Kenitra, Morocco [aziz.elmadani@uit.ac.ma](mailto:aziz.elmadani@uit.ac.ma);

**Poster Presentations (Session 2)**

***PP21 : Optimization of factors influencing the brightness of nickel deposition: application and modeling by design of experiment***

khemmou Nidal, ibn tofail university , Kenitra, Morocco [khemmou2@gmail.com](mailto:khemmou2@gmail.com);

***PP22 : CaSi2: a promising material for the synthesis of novel functionalized two-dimensional crystalline silicon nanosheets***

Nayad Abdallah, Faculty of Sciences Semlalia, Cadi Ayyad University , MARRAKECH, Morocco [abdallahnayad@gmail.com](mailto:abdallahnayad@gmail.com);

***PP23 : A comparative study on the effect of corona discharge and dielectric barrier discharge treatment on polypropylene films***

Bouharouat Ali, University of Bouira , Bouira, Algeria [ali\\_boug@live.fr](mailto:ali_boug@live.fr);

***PP24 : Structural and optical properties of transparent magnesium oxide thin film***

Djaaboube Halima, Université de Constantine Algérie , Constantine, Algérie [halimadjaaboube@gmail.com](mailto:halimadjaaboube@gmail.com);

***PP25 : Organic – inorganic hybrids, obtained by sol-gel approach at different inorganic catalysts***

Ilcheva Vania, nstitute of Electrochemistry and Energy Systems - BAS , Sofia, Bulgaria [vania.ilcheva@iees.bas.bg](mailto:vania.ilcheva@iees.bas.bg);

***PP26 : STUDY OF FERRITE BY RESONANT NUCLEAR SCATTERING  
MANGANES- IRON : NOTSTOICHIOMETRIC***

BENLALLI ABDELKRIM, Radiation Physics Laboratory, Department of Physics, Faculty of Sciences, Badji Mokhtar University , Annaba, Algeria [a\\_benlalli@yahoo.fr](mailto:a_benlalli@yahoo.fr);

***PP27 : Structural and Magnetoelctrical properties of La0.6Y0.1Ba0.2Sr0.1MnO3 manganite***

MERICHE Faiza, Laboratory of Materials Studies (LEM), Department of Physics, Mohamed Seddik Ben Yahia University , Jijel, Algeria [fzmeriche@gmail.com](mailto:fzmeriche@gmail.com);

***PP28 : Electrical impedance spectroscopy (EIS) as a tool to investigate the complexation process of Gum Arabic and Chitosan solution: a review***

ZAIM Soumia, université chouaib doukkali , El jadida, Morocco [soumia.zaim@gmail.com](mailto:soumia.zaim@gmail.com);

***PP29 : Electrical studies of reduced graphene oxide/epoxy polymer nanocomposites***

NIOUA Yassine, Université Ibn Tofail, Faculté des Sciences , Kenitra, Morocco [yassinenioua200@gmail.com](mailto:yassinenioua200@gmail.com);

***PP30 : NUMERICAL SIMULATION OF COMBINED HEAT TRANSFER THROUGH HOLLOW BRICKS WALL***

Bouchaib Jamal, Faculty of Sciences Semlalia, Cadi Ayyad University , MARRAKECH, Morocco [bouchaib.jamal@ced.uca.ma](mailto:bouchaib.jamal@ced.uca.ma);

***PP31 : Studies on the Electrical and Thermal properties of PMMA/Carbon-dots nanocomposites***

EL-ANSARY Zakaria, Université Ibn-Tofail, Faculté des Sciences - Kénitra , Kenitra, Morocco [zak.ansa.95@gmail.com](mailto:zak.ansa.95@gmail.com);

***PP32 : Design the antenna with new dielectric substrate for new generation (5G)***

El Hasnaoui Yassine, University Ibn Tofail, National School of Applied Sciences (ENSA) , Kenitra, Morocco [yassine.elhasnaoui@uit.ac.ma](mailto:yassine.elhasnaoui@uit.ac.ma);

***PP33 : Phase transition in high-mobility Si MOSFETs***

Limouny Lhoussine, Physics department, University Ibn zohr, Faculty of sciences, , Agadir, Morocco [LIMOUNY@GMAIL.COM](mailto:LIMOUNY@GMAIL.COM);

***PP34 : Structural, electrical, and impedance spectra analysis of PMMA/PPy composite materials***

Aribou Najoia, LASTID Laboratory, Physics Department, Faculty of Sciences, Ibn Tofail University , Kenitra, Morocco [najoia.aribou@uit.ac.ma](mailto:najoia.aribou@uit.ac.ma);

***PP35 : Structural, optical, dielectrical and electrical properties of Aloe Vera leaf exudate: Application as natural dye in solar cell***

HNAWI Salma Kaotar, Faculty of Sciences Semlalia, Cadi Ayyad University , MARRAKECH, Morocco [hnavi.salma@gmail.com](mailto:hnavi.salma@gmail.com);

***PP36 : SANS characterization and impedance spectra analyses of polyester/graphite composite***

Belhimria Rajae, LASTID Laboratory, Department of Physics, Faculty of Sciences, University Ibn Tofail, Kenitra, Morocco , Kenitra, Morocco [bhr.rajae@gmail.com](mailto:bhr.rajae@gmail.com);

***PP37 : Thermal and dielectric behavior of ternary composites Carbon nanotubes/Graphite/Polyester***

Samir zineb, LASTID Laboratory, Physics Department, Faculty of Sciences, Ibn Tofail University , Kenitra, Morocco [zinebsamir@gmail.com](mailto:zinebsamir@gmail.com);

***PP38 : Electrical and Dielectric Properties of Gt/CNT/Engine Oil Nanofluids***

Barnoss Sanae, faculté de sciences, université Ibn Tofail kénitra , kénitra, Morocco [barnoss1702@gmail.com](mailto:barnoss1702@gmail.com);

***PP39 : Analysis of the dielectric function of Aluminum (Al) in bulk and nanometric states***

AIT HAMMOU Brahim , Faculté des Sciences d'Agadir , Agadir, Morocco [Brahim.aithammou1985@gmail.com](mailto:Brahim.aithammou1985@gmail.com);

**PP40 : Structural, dielectric and impedance spectroscopy analysis of lead free ( $Ba_{0,85}Ca_{0,15}Zr_{0,1}Ti_{0,9}O_3$ ) ceramics synthesized by sol-gel method**

KHARDAZI Said , CADI AYYAD UNIVERSITY , MARRAKECH, Morocco  
[khardazzisaid@gmail.com](mailto:khardazzisaid@gmail.com)

**PP41 : Anisotropy of conductivity and nonlinear effects in  $\epsilon$ -GaSe crystals**

AL-HATTAB Mohamed , Université Sultane moulay slimane Beni mellal , Beni mellal, Morocco  
[kh.rahmani@hotmail.fr](mailto:kh.rahmani@hotmail.fr)

**PP42 : Study on the effect Er dopant on the optoelectronic properties of nanostructured ZnO**

ACHEHBOUNE Mohamed , Sidi Mohamed Ben Abdellah University/ Faculty of Sciences , Fes, Morocco  
[achehboune.mohamed01@email.com](mailto:achehboune.mohamed01@email.com)

**PP43 : Graphene oxide coated flower-shaped ZnO NRs for UV detection application**

BOUKHOUBZA ISSAM , Sidi Mohamed Ben Abdellah University/ Faculty of Sciences , Fes, Morocco  
[boukhoubza.issam00@gmail.com](mailto:boukhoubza.issam00@gmail.com)

**PP44 : Effect of conduction band non-parabolicity on the intersubband transitions in GaInN/AlInN quantum well heterostructures**

MOUDOU L'houcine , Université Sultane moulay slimane Beni mellal , Beni mellal, Morocco  
[moudou1993@@email.com](mailto:moudou1993@@email.com)

**PP45 : Promising antiviral, antimicrobial and therapeutic properties of green nano-ceria**

Mohamed Hamza , 1 Old Faure Road, Po Box 722, Somerset West, Cape Town, South Africa, 7130 , Cape Town, South Africa  
[hamza@aims.ac.za](mailto:hamza@aims.ac.za)

**PP46 : Optical and electrical properties of some skin of tomatoes, potatoes and peppers**

C. N. Abouloula , Nanomaterials for Energy and Environment Laboratory (N2EL), Faculty of Sciences, Semlalia, Marrakesh, Morocco,

**PP47 : Investigating the electrical transport mechanisms of pentafunctional epoxy resin/natural phosphate composites**

A. Taoufik, LASTID Laboratory, Department of Physics, Faculty of Sciences, University Ibn Tofail, Kenitra, Morocco , Kenitra, Morocco, [med.elhasnaoui@uit.ac.ma](mailto:med.elhasnaoui@uit.ac.ma)

**PP48 : Estimating of dew yield from the calcite dew condenser**

Benlatta , Laboratoire de Physique de la Matière Condensée, Faculté des Sciences Ben M'Sik, Université Hassan II, Casablanca, Morocco. [benlatta1975@gmail.com](mailto:benlatta1975@gmail.com)

**PP49 : Diamagnetic susceptibility, polarisability and photoionization cross section of a single dopant in GaAs core/shell Quantum Dot.**

S. M'Zerd, I. Zorkani, E. Feddi, M. Khenfouch, University of Sidi Mohammed Ben Abdallah Faculty of Science Dhar El Mahraz Fes

**PP50 : Resonant optical properties of AlGaAs/GaAs multiple-quantum-well under the effect of hydrostatic pressure**

Y. Chrafih, Kh. Rahmani, M.Khenfouch, O.Bajjou, I. Zorkani, Faculty of Polydisciplinary, (ERPTM), BP 590, 23000 Beni Mellal-Morocco [younescharafih@gmail.com](mailto:younescharafih@gmail.com)

**PP51 : Structural, and dielectric properties of BaO-K<sub>2</sub>O-TiO<sub>2</sub> -P<sub>2</sub>O<sub>5</sub> glasses and its associated glass-ceramics**

E. Haily ,L. Bih , S. Yousfi , A. El bouari , B. Manoun, Equipe Physico-Chimie la Matière Condensée (PCMC), Faculté des Sciences de Meknès, Maroc.

**PP52 : Effect of tin doping on structural, optical and electrical properties of ZnO thin films prepared by sol-gel method**

Naoual AL ARMOUZI, Hikmat. S.HILAL, Mustapha MABROUKI, Industrial engineering laboratory, Sultan Moulay Slimane University, Faculty of Science and Technology, Beni mellal [nalarmouzi@gmail.com](mailto:nalarmouzi@gmail.com)

***PP53 : Field Electron Emission from Carbon Black Nanotips: Characterization and Analysis***

Hatem A. Albraikat, Mohammad M. Allaham, M-Ali H. Al-Akhras and Marwan S. Mousa, Department of Physics, The University of Jordan, Amman, Jordan. [mmousa@mutah.edu.jo](mailto:mmousa@mutah.edu.jo)

***PP54 : Field Electron Emission from W – Tips Coated with various Thicknesses of Polystyrene – Characteristics & Analysis***

Mo'tasam Alabth, Moneeb T. Shatnawi, Mohammad M. Allaham and Marwan S. Mousa, Department of Physics, The University of Jordan, Amman, Jordan. [mmousa@mutah.edu.jo](mailto:mmousa@mutah.edu.jo)

***PP55 : Influence of Polystyrene layer on the Field Electron Emission Performance of Nano-Apex Carbon Fiber Emitters***

Saleh H. Fawaeer, Moneeb T. Shatnawi, Mohammad M. Allaham and Marwan S. Mousa, Department of Physics, The University of Jordan, Amman, Jordan. [mmousa@mutah.edu.jo](mailto:mmousa@mutah.edu.jo)

***PP56 : Observations on the effect of coating Nano-Tip Apex with a thin layer of dielectric material on both electron and Ion Emission Mechanisms***

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***PP57 : Temperature influence on the density of two-dimensional electron gas in Al<sub>0.18</sub>Ga<sub>0.82</sub>N/GaN HEMT***

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***PP58 : A facile route for synthesis of copper iron tin sulfide thin films***

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***PP59 : Optimization photoelectrochemical of the cuprous oxide (Cu<sub>2</sub>O), by electrodeposition***

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