11th Maghreb-Europe meeting on materials and their applications for devices and sensors (**MADICA 2018**),   **November 7-8, 2018, Mahdia** (Tunisia).

### MADICA 2018 – PROGRAM

### Wednesday, November 7, 2018

***9h00***

**Opening Session**

***9h30***

**Plenary Conference I**

**Prof. Camelia BALA, University of Bucharest, Romania**

***BioSensing strategies for small molecules detection***

***10h00***

**Plenary Conference II**

**Prof. Khalifa AGUIR, Université Aix-Marseille**

***Avancées récentes dans les microcapteurs à oxyde semiconducteur de type "microhotplate".***

***10h30***

**Plenary Conference III**

**Prof. Noureddine RAOUAFI (Université de Tunis)**

***Strategies for the Design of Electrochemical Bioplatforms Based on Nanomaterials***

***11h00***

**Coffee Break**

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| **Session A1 : Biosensors****11h30** **A11.** Ilhem Rassas, Mohamed Braiek, Anne Bonhommé, François Bessueille, Hatem Majdoub,and Nicole Jaffrezic-Renault (Univ. Lyon, Univ. Monastir)*Elaboration of an enzymatic glucose biosensor based on the polyelectrolyte complex (Carrageenan and Chitosan) coupled with gold nanoparticles***11h45 A12.** Amal Raouafi, Alfredo Sánchez, Reynaldo Villalonga, Noureddine Raouafi (Univ. Tunis, *Ultrasensitive detection of PSA using MB intercalated on anti-PSA aptamer-modified electrode***12h00 A13.** Z. Mazouz, M. Mokni, N. Fourati, C. Zerrouki, A. Othmane, R. Kalfat, A. Omezzine, A. Bouslema (INRAP, FMM, CNAM Paris)*MIP-based electrochemical sensor for sensitive detection of PSA in real samples***12h15 A14.** Houda ESSOUSI, Houcine BARHOUMI (Univ. Monastir)*Electroanalytical application of molecular imprinted polymer matrix for dapsone determination in real pharmaceutical samples* | **Session B1: Nanomaterials****11h30** **B11.** M. BOUAZIZ1, N. BEL HAJ MOHAMED, N. JABA, M. HAOUARI, R. MLIKA (FSM)*Elaboration and characterization of vitreous silica matrices doped by luminescent CdSe nanoparticles and erbium ions***11h45 B12.** Tayssir Missaoui, Taoufik Soltani, Hassen Touzi, Yves Chevalier, Hafedh Ben Ouada (Univ. Monastir, Univ. Lyon) *Alignment layers for nematic liquid crystal cells***12h00 B13**.M. Haouari, A. Maaoui (Univ. Monastir)*Temperature sensing ability using Er3+ doped fluorotellurite glass***12h15 B14.** Thamer Aloui, Najla Fourati, Hajer Tounsi Guermazi, Samir Guermazi and Chouki Zerrouki (Univ. Sfax, CNAM Paris)*Structural and morphogical study of Transition Metal based Molybdate nanopowders; towards enhanced photocatalytic environmental application* |

***12h30* Lunch**

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| **Session A2 : Biosensors****14h00 A21.** **Conférence-clé****Mohamed CHEHIMI Univ Paris-Est*****Diazonium surface chemistry for the design of flexible sensors and actuators*****14h30 A22.**Salma. Bizid, Saber.Blili, Rym. Mlika, Ayoub. Haj Said, Hafsa. Korri-Youssoufi (Univ. Monastir, Univ. Paris-Saclay)*E-DNA biosensor based on Conjugated Redox Polymers and Multiwalled Carbon Nanotubes: Application to DNA detection of M. Tuberculosis***14h45 A23.** Amina Touati, Mohamed Braiek, Hala Araar, Madjid Arab, Messaoud Benounis, Nicole Jaffrezic-Renault (Univ. Lyon, Univ. Khenchela)*A new sensitive conductometric biosensor based on MWCNT/ NPs used for determination of urea in blood samples***15h00 A24**Ali Zazoua, Wassila Safari, Nicole Jaffrezic-Renault (Univ. Jijel, Univ. Lyon)*Performance of condensed tannins from green tea for the complexation of some endocrine disruptors in wastewater from the pharmaceutical industry***15h15 A25.**Hasna Mohammadi, Ghita Yammouri, Meryeme Benramdane, Aziz Amine (Univ. Casablanca)*Electrochemical biosensors based on magnetic beads, gold and carbon nanomaterials for early diagnosis of cancer biomarkers MicroRNAs-155, 21 and 125a***15h30 A26.**Najib Ben Messaoud, Abdellatif Ait Lahcen, Chérif Dridi, Aziz Amine (CRMN Sousse, Univ. Casablanca)*New Sensing Strategies for Highly Sensitive and Selective BPA detection* **15h45 A27.** G. Attia, Z. Khaldi, S. Rahali, N. Fourati, C. Zerrouki, R. Zerrouki, M. Seydou, R. Ben Chaabane (Univ. Monastir, Univ. Limoges, Univ. Paris-Sorbonne, CNAM Paris)*Bisphenol S - based surface acoustic wave sensors for picomolar detection of lead ions***16h00 A28.** Houcine BARHOUMI, Meriam SBOUI, Zeineb Mzoughi and Hatem MAJDOUB (Univ. Monastir)*Polyaniline-pectin composite matrix modified glassy carbon electrode for calcium ion detection***16h15 A29.** Malek Bibani, Nadia Ktari, Najla Fourati, Chouki Zerrouki and Rafik Kalfat (INRAP, CNAM Paris)*Development of a simple electrochemical analysis method for diethylstilbestrol detection* | **Session B2 : Materials****14h00 B21.** **Conférence-clé****Vlastimil MATEJEC IPE, CAS*****Materials for optical fibers for energy delivery*****14h30** **B22.** E. Akanny, A. Bonhomme, L. Bois C. Commun, A. Doleans-Jordheims, S. Bourgeois, C. Bordes, F. Bessueille (Univ. Lyon 1)*Development of Gold nanoparticles for the detection of Lactobacillus Rhamnosus GG by Surface Enhanced Raman Scattering***14h45B23.** Rihab Chouk, Manel Bergaoui, Nejmeddine Jaballah, Mohamed Khalfaoui (Univ. Monastir)*New insights on optoelectronic and charge transport properties of PPV derivatives for OLED application***15h00** **B24.** Ivo Barton, Vlastimil Matejec, Jan Mrazek, Luminita Predoana, Maria Zaharescu (Czech Acad Sci, Rom Acad)*Sol-gel preparation of hollow-core optical fibers with Na2O-TiO2-SiO2 glass claddings***15h15** **B25.** Awatef Ouhibi, Maroua Saadaoui, Mohammed Guendouz, Noureddine Raouafi, Adel Moadhen (Univ. Tunis)*Feasibility of Surface-enhanced Raman spectroscopy for rapid PSA detection via AgNPs/SiNWs***15h30** **B26.** Mourad Souibgui, Hosni Ajlani, Antonnella Cavanna, Ali Madouri, Meherzi Oueslati and Abdelaziz Meftah (Univ. Tunis, CNRS Marcoussis)*Raman study of the stacking transition in bilayer graphene on h-BN on hexagonal boron nitride (h-BN) induced by thermally activated rotation***15h45 B27.** Fredj SAAD, Ayda BAFFOUN and MohamedHAMDAOUI (Univ. Monastir)*Dyeing of polyester woven fabric using a fluorescent organic dye with conventional and irradiation microwave technique***16h00** **B28.** A. Naifar, N. Zeiri, S. Abdi-Ben Nasrallah, M. Said (Univ. Monastir)*Optimization of optical properties of (CdSe/ZnTe/ZnS) core/shell/shell nanostructure*16h15 B29. M. Mbarek, K. Alimi (Univ. Monastir) New carbazole-stilbene copolymer: synthesis, structural and photo-physical properties of films and nanowires elaboration |

***16h30 :* Coffee Break**

***17h00 - 18h30 : Poster Session A***

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| PA1 | A new thin film modified glassy carbon electrode based on melaminium chloride pentachlorocuprate (II)for selective determination of nitrate in water | Araar Hala, Messaoud Benounis, Direm Amani, Amina Touati, Atailia Sara&Houcine Barhoumi | (Univ. Kenchela, Algeria) |
| PA2 | Electrochemical bioosensor for NT-proBNP détection in human saliva:Heart Failure biomedical application | E. Ghedir, A. Baraket, S. Kouchar, S. Rabai, M. Benounis, A. Alcacer, A. Streklas, J. Bausells,N. Zine, N. Jaffrezic, A. Errachid | (Univ. Kenchela, Algeria) |
| PA3 | Molecularly Imprinted Polymer Based on Silica Supports for Efficient Adsorption of Mitotane | Najeh Jaoued, Chaima Nasraoui; Rafik Kalfat, Yves Chevalier, Souhaira Hbaieb | (INRAP, Tunisia) |
| PA4 | Nouveaux capteurs électrochimiques sélectifs pour la détection des nitrates dans l’eau . | Hanane Kattar , Mesaoud Benounis  , Barhoumi Houcine  | (Univ. Kenchela, Algeria) |
| PA5 | Elaboration and electro-acoustic characterization of pesticide sensors | Wafa Machgoul, Hassen Touzi, Hafedh Ben Ouada | (Monastir Univ., Tunisia) |
| PA6 | Non-enzymatic amperometric sensor for hydrogen peroxide detectionbased on a cross-linked redox-active polymer | MeriamMattoussi,Fatma Matoussi, Noureddine Raouafi | (Univ. Tunis, Tunisia) |
| PA7 | Interprétation des isothermes d’adsorption du caféine sur un support solide | A.    Nakbi1, A. ben Lamine1 | (Monastir Univ., Tunisia) |
| PA8 | Nouveaubiocapteur a base d’un aptamère (3’NH2\_APT\_Cadmium) pour la détection du cadmium dans l’eau  | Rabai Selma ,Messaoud Benounis.Nicole Jaffrezic-Renault ,Errachid Abdelhamid ,Amina Rhouati, AbdoullatifBaraket | (Univ. Kenchela, Algeria) |
| PA9 | Disposable electrochemical aptasensor for ciprofloxacin detection  | S. Ben Aissa, G. Catanante, N. Raoufi, J-L. Marty | (Univ. Tunis, Tunisia) |
| PA10 | electrodesusing the p19 viral protein to recognize RNA/miRNA homoduplexes | Mohamed Zouari, Amira Ben Hassine, RihabSahli, NoureddineRaouafi | (Univ. Tunis, Tunisia) |
| PA11 | Electrochemical sensor based on modified glassy carbon electrode with fucoidan matrix for heavy metal ions detection | Imen BOUSRIH, Hiba HAJ AMMAR, Hatem MAJDOUB and Houcine BARHOUMI | (Monastir Univ., Tunisia) |
| PA12 | The WET sensor: Areliable toolfor measuring salinity and moisture within soils in Tunisian arid land. | Chaieb Ghassen, AbdellyChedly&Michalet Richard  | (Univ. Bordeaux, France) |
| PA13 | Catalytic reaction mechanism of methane oxidation to formaldehyde occurring on palladium supported on mesoporous materials silica | Anis Gannouni, Carine Michel, Françoise Delbecq, Mongia Saïd Zina, Philippe Sautet | (Univ. Tunis, Tunisia) |
| PA14 | Nouvelle classe de membranes à bases de polyimides (PI) biosourcés pour la perméation gazeuse  | Ibtissem Jlalia-Berriche , Régis Mercier , Catherine Marestin , Saber Chatti  | (INRAP, Tunisia) |
| PA15 | Development of an optical immunosensor based on ceria nanoparticles for α-lactalbumin detection | ArwaLaroussi, Noureddine Raouafi | (Univ. Tunis, Tunisia) |
| PA16 | Développement de capteurs électrochimique non enzymatique à base de CuxZn1-xO pour la détection du glucose. | A. Mahmoud, M. Echabaane, K. Omri, L. El Mir, R. Ben Chaabane | (Monastir Univ., Tunisia) |
| PA17 | Nanoarchitecture formée d’aptamère/benzoquinone/silice pour la détection de l’antigène spécifique de la prostate | Mohamed Mastouri,RihabSahli, Noureddine Raouafi | (Univ. Tunis, Tunisia) |
| PA18 | Detection of Trace Heavy Metal Ions - Iron(III)- by cyclic voltammetry and square wave voltammetry methods | N. Mecheri, M. Benounis, H. Barhoumi | (Univ. Kenchela, Algeria) |
| PA19 | Development of hydrogen peroxide biosensor based on advanced DNA/enzyme architectures | Maroua Meftah,Beya Haouas, Vladimir Mirsky,Noureddine Raouafi | (Univ. Tunis, Tunisia) |
| PA20 | Elaboration of a Fluorescent Biosensor for DNA Detection Based on Silica Nanoparticles and ITO Substrate. | Azza BEN AKACHA,Rihab SAHLI GANNOUNI,Noureddine RAOUAFI. | (Univ. Tunis, Tunisia) |
| PA21 | Electrochemical determination of lead, cadmium and hexavalent chromium at trace levels using modified carbon paste electrodes | Aziz AMINE, Nazha HILALI, Abdelghani GHANAM, Hasna MOHAMMADI | (Univ. Casa, Morocco) |
| PA22 | Development of a simple and sensitive electrochemical biosensor for the screening of alpha glucosidase inhibitors from medicinal plants | Aziz AMINE ,Raouia ATTAALLAH, Dounia EL FADIL | (Univ. Casa, Morocco) |
| PA23 | Characterization of optical and thermo-optical properties of polyvinyl alcohol films by prism coupler for sensor applications | Bessem BEN DOUDOU, Hanen JAOUADI, Chérif DRIDI | (CRMN, Tunisia) |
| PA24 | A novel laccase biosensor based on polyelectrolyte complex for the detection of phenolic compounds | Hajer Chakroun, IlhemRassas, Philippe Namour, Anne Bonhomme, Corinne Sanglar, Guy RaffinSalma HentatiBesbes, Nicole Jaffrezic-Renault | (Univ. bizerte, Tunisia) |
| PA25 | Reduced graphene oxide combined with derived tetraphenylporphyrin nanomaterial as platform for electrochemical DNA sensors application | Yaqiong Wang, Helene Sauriat-Dorizon and Hafsa Korri-Youssoufi | (Orsay, France) |
| PA26 | Porous-silicon photonic crystals based on Bragg mirror for refractive index sensing | M. Erouel, C. Jamois, L. Berguiga and K. Khirouni | (Univ. bizerte, Tunisia) |
| PA27 | Design and Performance evaluation of interdigitatedmicro-supercapacitors for microsystems applications | Marwa GASSAB, Achref CHEBIL, Chérif DRIDI  | (CRMN, Tunisia) |
| PA28 | Highly sensitive Bisphenol A sensor based on New porphyrin derivative modified GCE electrode  | D. Jemmeli, C. Dridi, C. Mchiri, H. Nasri | (CRMN, Tunisia) |
| PA29 | Extrinsic optical sensors of saliva pH | Vlastimil Matejec, Ivo Barton, Ondrej Podrazky,Marie Pospisilova, Lenka Traplova | (Czech Republic) |
| PA30 | Thickness effect on ethanolsensing response of sprayed b-In2S3 thin films | R. Souissi, N. Bouguila, A. Labidi | (Univ. Carthage) |
| PA31 | Gold electrodefunctionalizedwith a naturaltheobromine-based membrane for the ureamonitoringin urine | Ali Zazouaa, Imane Boubezaria, Sarra Bouraouia, Nicole Jaffrezic-Renaultb | (Univ. JIJEL, Algeria) |
| PA32 | Design of a new non-enzymatic sensor based on a polysaccharide / Perovskite matrix for the glucose detection  | Imane Boubezari, Ali Zazoua, Nicole Jaffrezic-Renault, Abdelhamid Errachid | (Univ. JIJEL, Algeria) |
| PA33 | Développementd’une nuance d’un acier résistant à l’usure | AYADI Souad, HADJI Ali  | (Univ. Annaba, Algeria) |
| PA34 | characterization and styding of ZnO thin films deposited by pyrolysis : effect of annealing temperature | W. Azzaoui, M. Medles, A. Bouzidi,H.Tabet Derraz, K.Salim, M. A. Benali ,A.NeffahM. F. Nehal, Z. Kebbab | (Univ. Sidi bel Abbes, Algeria) |
| PA35 | Effect of working pressure on the properties of NbN films grown on Si substrate | K. Bekhedda, N. Redjdal, H. Menari, N. Gabouze | (Univ. Alger, Algeria) |
| PA36 | Structural and optical properties of Mg-doped CuFeO2 thin filmsprepared by vacuum thermal evaporation | H. Ben Jbara, D. Abdelkader, F. Chaffar Akkari, and M. Kanzari | (ENIT, Tunisia) |
| PA37 | A Statistical Physics study of the interaction of [7]-Helicene with alkali cation (Cs) | Mohamed Ben Yahia, Salah Knani, Manel Ben Yahia1, Moncef Tounsi and Abdelmottaleb Ben Lamine | (Monastir Univ., Tunisia) |
| PA38 | Impact of Alkaline Metal Ca and Ba on The Structural and Optical Properties of ZnO Thin Films Prepared by The Spray Pyrolysis Method | M.A. Benali, H.Tabbet Derraz, A.Bourguig, A.Neffah | (Univ. Sidi bel Abbes, Algeria) |
| PA39 | Electrochemical deposition of Semiconductor-Oxides for CO2 Gas Sensing | S. Bouachma, S.Messaci, A. Manseri, M. Azzaz,M. Kechouane, N. Gabouze | (Univ. Alger, Algeria) |
| PA40 | Study of electrical characteristics behaviour according the temperature effect | Soumia Boualem, Zineb Benamara, Boudali Akkal, Mohammed Amrani, Arslane Hatem Kacha, Mekki Abd El Kader Benamara | (Univ. Sidi bel Abbes, Algeria) |
| PA41 | etude de la corrosion des instruments chirurgicaux dentaires lors de la sterilisation | Rihane BOULMERKA ; Amel OULABBAS et Sihem ABDERRAHMANE | (Univ. Annaba, Algeria) |
| PA42 | Influence of Mo, Zr and V doping on the electrochemical and wear behavior of CrN PVD Coatings |  K. Bouzid, N.E. Beliardouh, C. Nouveau  | (Univ. Annaba, Algeria) |
| PA43 | Comparative study between the effect of the passivation processes with Ar+ ion bombardment and with heating on(Au/GaN/n-GaAs) nanostructures Schottky diodes. | H. Helal, Z. Benamara, C.Varenne, C. Robert-Goumet, A. H. Kacha, A. Rabehi, B. Akkala, M. Amrania | (Univ. Sidi bel Abbes, Algeria) |
| PA44 | Optimization of solar cell efficiency based on PN junction p-In xGa1-xN/n- In xGa1-xN . | A. Khettou, M.Chellali,S.Mansouri, B.Taibi , Z. Benamara, H.Helal | (Univ. Sidi bel Abbes, Algeria) |
| PA45 | Simulation et optimisation des paramètres de sortie d’une cellule photovoltaïque Tandem InGaP/GaAs | H. Mazari, A. Boumesjed, A. A. Boukera, A. A. Moulay, K. Ameur, N. Benseddik, Z. Benamara, N. Benyahya, | (Univ. Sidi bel Abbes, Algeria) |
| PA46 | The electrical characteristics of n-type GaN Schottky diode | A.Sadoun, S. Mansouri, M. CHellali,S. Benykrelef,M. Benchehimaand Z.Benamara | (Univ. Sidi bel Abbes, Algeria) |
| PA47 | electrochemical degradation of textile reactive dye carbone derma af | Sara SATOUH, Sabrina HALLADJA, Naima MAOUCHE | (Univ. Skikda, Algeria) |
| PA48 | Electrochemical and surface characterizations of Propolis extract as green corrosion inhibitor for mils steel in 1.0M HCl | A.SEDIk, S.Athmani, D.Lerari, R.Solmaz andK.Bachari | (Univ. Tipaza, Algeria) |
| PA49 | Theoretical studies on electro-optical properties of conjugated small molecule PTCDA as acceptor organic solar cells | R. ZAIER and S. AYACHI | (Monastir Univ., Tunisia) |
| PA50 | Etude et Modélisation de la couche du BSF dans les cellules solaires À base de silicium Multicristallin | O.Belaidi, Y.Bourezig, Y.Z. Hamri, K.Toumi | (Univ. Sidi bel Abbes, Algeria) |
| PA51 | Study of the annealing effect in GaN/GaAs Schottky diodes. | S. Boualem, Z.Benamara, B.Akkal, M. Amrani. A.H. Kacha, M.A.Benamara. | (Univ. Sidi bel Abbes, Algeria) |
| PA52 | Finite element modeling of Electrochemical Polymerization of different monomerson the gold/silicon surface using COMSOL Multiphysics | Chafia BOUASLA, Noureddine DERGUINI, mohamed loucif seiad , Oum El kheir HADJ RAHMOUN Noureddine TAYEBI, Samar Mohamed El-Hadi, Kherrat Rochedi. | (Univ. Annaba, Algeria) |
| PA53 | Investigations of TiO2 sensing properties under alcohols | S. Ben Nacer a,, S. Touihri b, M. Maaref | (Univ. Carthage, TN) |
| PA54 | Polydopamine Moleculary Imprinted Polymer for Electrochemical Protein Recognition | Amal TLILI., Ali OTHAMNE, Najla FOURATI, Chouki ZARROUKI | (FMM,Monastir Univ.) |
| PA55 | Theoretical and experimental analysis on ligands-CdS clusters interactions  | Sabah NASRAOUI, Naim BEL HAJ MOHAMED, Rafik BEN CHAABANE, Abdul-Rahman ALLOUCHE | (LIMA,Monastir Univ., Tunisia) |
| PA56 | Oxygen detection at room temperature by In2S3 sprayed thin films |   N. Bouguila, R. Souissi | (Univ. Gabes, Tunisia) |
| *PA57\** | Density -functional calculation of structural and electronic properties of InP(001)β (2x4) surface reconstructions and bismuth adsorption | mbarka hashassi, ramzi alaya , mourad mbarki | (Univ. Gabes, Tunisia) |
| *PA58\** | Theoretical and experimental analysis on ligands-CdS clusters interactions  | Sabah NASRAOUI, Naim BEL HAJ MOHAMED, Rafik BEN CHAABANE, Abdul-Rahman ALLOUCHE | (LIMA,Monastir Univ., Tunisia) |
| *PA59\** | Etude interfaciale à l’échelle nanométrique des particules plasmatiques  | M. Zoghlami, V. Vié , G. Paboeuf , O. Laouini , T. Soltani , T. Othman | **(FST, TN)** |
| *PA60* | Development of non-enzymatic glucose sensors based on biosynthesized ZnO nanoparticles | Asma EL GOLLI, Mosaab ECHABAANE, Chérif DRIDI  | (CRMN, TN) |
| PA61 | Characterization of mesoporous metal oxide filmby using electrochemical impedance spectroscopy. Application to the determination ofadsorbed water and to the detection of ethanol | Aya GARFA, Amani CHROUDA, Francis VOCANSON, Nicole JAFFREZIC-RENAULT | (Univ. Lyon, FR) |
| PA62 | Effect of detection approaches on immunosensor sensitivity: case of AuNPs/ glycated albumin impedimetric biosensor | Nadra Bohli, Laurence Mora, Adnane Abdelghani | (INSAT, TN) |
| PA63 | Design and Simulation of Microstrip Patch Antenna for Early Breast Cancer Detection | Latifa Fakri-Bouchet1, Leticia Konadu and Abel Rangel | (Univ. Lyon, Fr) |
| PA 64 | NMR Microcoil : Electrical model and resulting ohmic losses | José Bernardo, Yue Ma, Lucas Werling, Duc-Vinh Nguyen, Wilfried Uhring, YoussefZaim Wadghiri, Christian Gontrand, Luc Hebrard, Latifa Fakri-Bouchet | (Univ. Lyon, Univ. Strasbourg, New York Univ) |
| PA 65 | Optimization of parameters for electrospinning Polyvinyl chloride on HfO2 for development of capacitive chemical sensor. | Oleksii Bratash Abdoullatif Baraket, Marie Hangouet, Monique Sigaud, Miguel Zabala, Joan Bausells, Abdelhamid Errachid , Nadia Zine | (Univ. Lyon, CNM Barcelona) |
| PA 66 | Development of a microsensor based on molecularly imprinted nanoparticles for the detection of metamitron. | Z. Ayroud, J. Gallardo-Gonzalez, A. Baraket, A. Elaissari, J. Bausells, M. Hangouet, A. Errachid and N. Zine | (Univ. Lyon, CNM Barcelona) |
| PA 67 | Development of Li+ selective microelectrode using PPy [3,3′-Co(1,2-C2B9H11)2] as a solid contact | S. Merzouk, N. Zine, J. Bausells, F. Teixidor, N. Renault-Jaffrezic, and A. Errachid | (Univ. Lyon, CSIC Barcelona) |

***\*with short oral communication***

### Thursday, November 8, 2018

***8h30***

**Plenary Conference IV**

**Prof. Ayoub HAJ SAID, Université Monastir**

Metal–Organic Frameworks: new opportunities for the development of Sensor Devices

***9h00***

**Plenary Conference V**

**Dr Hafsa KORRI-YOUSSOUFI, Université Paris-Saclay**

[***Carbon based nanomaterials for electrochemical biosensors***](https://editorial.elsevier.com/app/book?execution=e1s2)

***9h30***

**Plenary Conference VI**

**Eithne EMPSEY (***Maynooth University***.** *Ireland***)**

**Biosensing Devices for Animal Fertility and Disease Monitoring**

***10h00***

**Coffee Break**

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| **Session A3 : Biosensors****10h30A31.** Z.Hsine, S.Bizid, S. Blili, A. Haj Said, R.Mlika, H. Korri-Youssouﬁ (Univ. Monastir, Univ. Paris-Saclay)*Electrochemical sensor based on redox polymer for the detection of dopamine: Application in serum***10h45 A32.** M. Saadaoui, A. S. Sanchez, R. V. Santana, J. M. Pingarron and N. Raouafi (Univ. Tunis, Univ. Madrid)*A smart DNAzyme-based biodevice supported onto nanochannels silica film for dual detection of Cu2+ ions and ascorbic acid in real samples***11h00 A33.** Claude Durrieu, Antoine Gosset, Yannis Ferro, Houssemedine Guedri, Sara Aldabe, Mercedes Perullini, Louis Renaud, Jean-François Chateaux, Rémy Bayard (Univ. Lyon, ENTPE, Univ. Buenos-Aires, INSA Lyon)*Algae to design biosensors***11h15****A34.** Maroua Hamami, Noureddine Raouafi, Hafsa Korri-Youssoufi (Univ Paris-Saclay, Univ. Tunis)*Hybrid nanomaterials MoS2/polypyrrole as platform of aptasensors for electrochemical detection of antibiotic as water contaminant* **11h30****A35.** D. Ayed, E. Laubender, M. Souiri, O. Yurchenko, H. Marmouch, G. Urban, and A. Othmane *Carbon Nanotubes Supported Ru-Au Nanoparticles with Core-Shell Structure for Glucose Detection with High Resistance against Chloride Poisoning***11h45****A36.** Mohamed Bahri, Abdoullatif Baraket, Marie Hangouet, Mounir Ben Ali, Joan Bausells, Miguel Zabala, Nadia Zine and Abdelhamid Errachid (Univ. Lyon, Univ. Soisse, CRMN Sousse, CNM Barcelone)*A novel Capacitance Electrochemical Biosensor Based on Silicon Nitride Transducer for TNF-α Detection***12h00****A37.** Randa Mrad, Nassim Ben Brahim, Rafik Ben Chaâbane, Michel Negrerie (Univ. Monastir, Ecole Polytechnique)*Functionalized CdSe quantum dots-based luminescence probe for detection of copper ions in aqueous solution.***12h15****A38.** JEBRIL Siwar, KHANFIR BEN JENANA Raoudha, DRIDI Chérif, (CRMN,Tunisia)*Silver nanoparticles Green synthesis, characterisation & application for agriculture* | **Session B3 : Materials****10h30** **B31.** B. Bouricha, A. Othmani, A. Labidi (Univ. Carthage)*Ethanol sensing with ZrO2 sol-gel thin film.***10h45** **B32.** Karima Ayeb, Noomen Moussa, Mohamed Faouzi Nsib, Salvatore Gianluca Leonardi, Giovanni Neri (FSG)*CO and NO2 sensing properties of N-doped ZnO nanoparticles***11h00 B33.** S. Jaballaha, H. Dahmana, L. El Mir (Univ. Gabes)*ELABORATION AND CHARACTERISATION OF MAGNESIUM DOPED ZnO NANOPARTICLES BY SOL-GEL ROUTE FOR APPLICATION IN GAS SENSORS***11h15 B34.** M. Laajimi, A. Jebnouni, R. Ben Chaabane, M. Chemli (Univ. Monastir)*Dielectrical study and O2 sensing properties of anthracene and carbazole based π-conjugated molecule***11h30****B35.** W. Ahmed, I. Najeh, H. Dahman and L. El Mir (Univ. Gabès, IMSIU Riyadh)*Elaboration and characterization of nanoporous conductive carbon based on resorcinol-formaldehyde xerogel.***11h45****B36.** Kada Mohamed El Amine Boureguig, Hind Tabet-Derraz, Mohammed Amine Benali (Univ. Sidi-bel-Abbès)*Study of Structural, Morphological and Optical Properties of tricobalt tetraoxide Thin Layer prepared by spray pyrolysis deposition***12h00****B37.** Bilel Achour, Nadia Aloui, Najla Fourati, Chouki Zerrouki, Nourdin Yaakoubi and Kosai Raoof (CNAM Paris, Univ. Du Maine)*Modelling and simulation, a predicting and optimization tool for SAW sensors sensitivity enhancement*12h15B38. Achref CHEBIL, Vincenzo Mazzaracchio, Stefano Cinti, Chérif DRIDI, Fabiana Arduini (CRMN Sousse, Univ. Rome)*All solid state flexible supercapacitor based on paper coated with Carbon Black and Prussian Blue* |

***12h30* Lunch**

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| **Session A4 : Biocapteurs****14h00 A41. Conférence-clé****Aziz Amine (Univ Hassan II Casablanca)***Recent advances on Biosensors for Environmental Monitoring.***14h30 A42.**Hassen Touzi,Wafa Machgoul, Ayoub Haj Said, Yves Chevalierb, Nicole Jaffrezic-Renault *methyl-naphthyl cyclen thin films as dye chemical sensors.***14h45 A43.** Zouhair Ait Touchente, Houssem Eddine El Yamine Sakhraoui, Najla Fourati , Chouki Zerrouki, Naima Maouche, Rachid Touzani, Nourdin Yaakoubi, Mohamed M. Chehimi (Univ. Oujda, Univ. Sétif, CNAM Paris, Univ. Le Mans, CNRS Thiais)*Zinc oxide nanorods wrapped with ion-imprinted polypyrrole polymer for picomolar selective electrochemical detection of mercury II ions***15h00 A44.**D. Najlaoui, M. Echabaane, A. Rouis, Arbia Ben Khélifa, H. Ben Ouada (Univ. Monastir)*Optical and electrochemical detection of sufaguanidine using a mixed isopolymolybdate[Eu(dmso)8] [Eu(η2-NO3)2(dmso)4(α-Mo8O26)0.5][Mo6O19]***15h15 A45.**D. Jemmeli, C. Dridi, E. Marcoccio, D. Moscone, F. Arduini (CRMN Sousse, Univ. Rome)*Voltammetric determination of bisphenol A in water using paper based electrode (µPAD) modified with carbon black***15h30 A46.**Zina Fredj, Abdoullatif Baraket, Mounir Ben Ali, Liguel Zabala, Joan Bausells, Monique Sigaud, Nadia Zine and Abdelhamid Errachid (CRMN Sousse, Univ. Lyon, Univ. Sousse, CNM Barcelone)*Thickness Effects on pH Response of HfO2 Sensing substrates grown by atomic layer deposition***15h45 A47.** Amal Rabti, Noureddine Raouafi (Univ. Tunis)*Reduced graphene oxide-based standalone electrodes for (bio)sensing applications***16h00 A48.** Chaima Nasraouia, Najeh Jaouad, Rafik Kalfat, Yves Chevalier, Souhaira Hbaieb (INRAP, Univ. Lyon)*Synthesis of Molecularly Imprinted Polymers for Selective Adsorption of Mitotane***16h15 A49.** Waad El Mejria, Najeh Jaoued, Amira Anene, Rafik Kalfat, Yves Chevalier, Souhaira Hbaieb (INRAP, Univ. Lyon)*Synthesis of solid phase extraction with Histamine imprints* | **Session B4 : Matériaux** **14h00 B41. Conference-clé****Denis Beyssen (Univ Lorraine)***Acoustic (bio)sensors, acoustofluidics and Lab-on-Chip applications***14h30 B42.**Antoine Gosset, Louis Renaud, Claude Durrieu, Pauline Barbe, Rémy Bayard, Jean-François Chateaux (Univ. Lyon)*Development of an integrated microfluidic algal biosensor for water pollution: tests on real samples* **14h45 B43.** Chafia BOUASLA, Oum El kheir HADJ RAHMOUN,mohamed loucif seiad1, Noureddine DERGUINI1, Noureddine TAYEBI, Mohamed El-Hadi SAMAR, Rochdi KHERRAT (CDTA Algiers, Univ. Stanford, Univ. Annaba)*modelisation de l’adsorption de l’albumine sur des electrodes interdigitee dans une puce microfluidique par la methode d’element fini***15h00 B44**Yosra Saad, Marwa Selmi, Mohamed Hichem Gazzah et Hafedh Belmabrouk (Univ. Monastir)*Magnetic field effect on mass transport at the microfluidic biosensor surface***15h15 B45.**B. Nessark, N. Harfouche, L. Hasniou, F. Nessark, F. Habelhames,A. Bahloul (Univ. Sétif)*Synthesis, characterization and analysis of the electrochemical and spectroscopicproperties of composite materials (POC/SC) - use as materials for the design of biosensors and electronic components.***15h30** **B46.**Omar Rejaiba, Alejandro F. Braña, Adel Matoussi (Univ. Sfax, Universidad Autonoma de Madrid)*Investigation of interface states in ECR-PECVD MOS (Al/SiO2/p-Si) structures by admittance spectroscopy measurement* **15h45 B47.** M. Sebai, I. Trabelsi and M. Kanzaria (Univ. Tunis, ENIT)*Etude des propriétés électriques des films minces Cu2ZnxFe1-xSnS4 par la spectroscopie d'impédance* **16h00** **B48.** R. ZAIER, F. MAHDHAOUI, S. AYACHI and T. BOUBAKER (Univ. Monastir)Structural, Vibrational and Nonlinear Optical Properties of Small Conjugated Molecules Derived From Pyridine: [A Joint Experimental and Theoretical Study](https://pubs.acs.org/doi/abs/10.1021/jp205764s)**16h15 B49.** B. Tiss, M. Erouel, N. Bouguila, M. Kraini, S. Alaya (Univ. Gafsa)*Effect of silver doping on the structural and optical properties of sprayed In2S3 thin films.* |

***16h30 :* Coffee break**

***16h30 - 18h30: Poster Session B***

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| PB1 | Influence of Bismuth substitution on structural and optical properties of BixZn1-3x/2O(x=0.00; 0.005; 0.007 and 0.05)oxides | Emna Bouzaiene, F.I.H.Rhouma, J.Dhahri | (FSM,Monastir Univ., Tunisia) |
| *PB2\** | DFT investigationof Optoelectronic Characterization and Nitrogen dioxide Adsorption Effects on new Zinc phthalocyanine | M.Chaabene, R. Ben Chaabane, A.R. Allouche | (LIMA,Monastir Univ., Tunisia) |
| PB3 | *Influence of temperature on electrical and dielectric properties of sodium sulfo-borophosphate glass* | K.Hadj Sadok, M.Haouari, H.Ben ouada | (LIMA,Monastir Univ., Tunisia) |
| PB4 | The graphite effect on Thermo-mechanical and dielectric properties of Epoxy/graphite composites | Jdidi Haythem, JilaniWissal, FouratiNajla,ZerroukiChouki , GuinaultAlain,GuermaziSamir, GuermaziHajer | (FSS, Sfax Univ., Tunisia) |
| PB5 | Crystal structureand dielectric properties of Nb doped in Ba0.97La0.02Ti0.98O3 perovskite prepared using the KCl flux method. | Marwa.Jebli, N. Abdelmoula and J.Dhahri | (FSM,Monastir Univ., Tunisia) |
| PB6 | Temperature sensing ability throw down-conversion process using new fluorotellurite glass doped with Er ions | Mohamed Haouari, Amir Maaoui, Nedra Saad, Alain Bulou | (LIMA,Monastir Univ., Tunisia) |
| PB7 | The CISeabsorbent layer deposited on Glass by Spray pyrolysis with different Substrates temperatures  | Bachir Messaid, RazikaZair Talaighil, Claire Le Paven, Faycal Bensouici, Ratiba Benzerga, Laurent Le Gendre, Florent Marlec | (Boumerdes, Algeria) |
| PB8 | SYNTHÈSE ET CARACTÉRISATION DE FILM MINCE DE HKUST-1 DEPOSEE SUR UNE LAME DE VERRE | Amel ACHECH, Ayoub HAJ SAID  | (LIMA,Monastir Univ., Tunisia) |
| PB9 | Novel adsorbent based on molecularly imprinted polymer for mycotoxins determination in food samples | Amira Anene , Yves Chevalier , Rafik Kalfat , Souhaira Hbaieb  | (INRAP,TN) |
| PB10 | Hydroxyapatite powder synthesized by chemical method for biomedical applications | Selma Attabi,Majda Mokhtari, Hicham Elmsellem, Abed Elaziz Himour | (Annaba? Algeria) |
| PB11 | Effect of barium deficiency on magnetocaloricpropertie of La0.6Nd0.1Ba0.3-xÿxMn0.9Cr0.1O3manganites | Amel Ben Hassine, JamilaDhahri, SobhiHcini, AbdessalemDhahri, Mohamed Oumezzine, E.K. Hlil | (FSM,Monastir Univ., Tunisia) |
| PB12 | Synthèses des nanoparticules de ZnS par la méthode des polyols | Nabila BOUASLA &Sihem ABDERRAHMANE  | (Annaba, Algeria) |
| PB13 | Characteristics of oxygen-rich silicon oxynitride thin films prepared by PECVD technique  | BOULESBBA Med | (Ouergla, Algeria) |
| PB14 | Preparation of new organicmaterials based on tetrathiapentalene | M.Boumedjout, S.Tiaouinine, L.Kaboub, A.K.Gouasmia. | (Tebessa, Algeria) |
| PB15 | Synthesis of New Glux-based polymers for the reversible adsorption of pollutants from wastewater | Taha Chabbah, Houyem Snani, Radhia Souissi, Valérie Mesnage, Hervé Casabianca, Saber Chatti | (INRAP,TN) |
| PB16 | Effect of annealing on the optical properties of non toxic and earth abundant Cu2ZnSnS4 thin films  | S. Chamekh, N. Khemiri, M. Kanzari | (ENIT, TN) |
| PB17 | Preparation and characterization of Polyethyleneiminemethylene phosphonic acid Grafted magnetic Fe3O4 microparticles.  | Nacer Ferrah | (Naama, Algeria) |
| PB18 | synthesis and characterization of (Zn, Sn) O thin films for photovoltaic applications | E. Gnenna a, N. Khemiria, M. Kanzari | (FST, TN) |
| PB19 | Thermostable poly(ether-pyridine)s from biobased diols useful for the extraction of pollutants and metal ions | Marwan Gomri, HouyemSnani, RadhiaSouissi, Régis Mercier, SaberChatti | (INRAP,TN) |
| PB20 | Elaboration of polymeric phase for selective adsorption of 2-Phenylbenzimidazole-5-SulfonicAcid | Soumya Kouki, AmiraAnene, NajehJaoued, Yves Chevalier, RafikKalfata, SouhairaHbaieb | (INRAP,TN) |
| PB21 | Bi adsorption onInAs(001) – β2(2 × 4) and α2( (2 × 4) surface:An Ab Initio-Based Approach | K. Kourchid, R. Alaya, M. Mbarki | (Univ.Gabes, TN) |
| PB22 | Interactions and Low-energy collisions proprieties of an alkali alkaline-earth BeCs and BeFr molecular ion | H. Ladjimi M. Farjallah and H. Berriche | (LIMA,Monastir Univ.) |
| PB23 | Study of the energy levels in the structure of the laser diode GaInP/AlGaInP | laid Abdelali | (Sidi Bel Abbes, Algeria) |
| PB24 | the structural and optical characterization of lead-doped zinc oxide nanoparticles synthesized by spray pyrolysis | M. A NEFFAH, H. TABBET DERRAZ, M.A. BENALI, A. BOURGUIG, K. SALIM W. AZZAOUI. | (Sidi Bel Abbes, Algeria) |
| PB25 | Etude des propriétés inhibitrices de corrosion d’un colorant alimentaire de l’acier 304L dans H2SO4 0,5M  | S. Ouchenane , S. Abderrahmane, A. Gharbi ,  | (Annaba, Algeria) |
| PB26 | Structural and morphological properties of as-synthesized Cu2ZnxFe1-xSnS4 materials | Hiba. Oueslati, Mohamed Ben Rabeh, and Mounir Kanzari | (FST,TN) |
| PB27 | kinetic and thermodynamic studies of the adsorption of organic compounds from wastewater | Zehoua REHIMI, Sabrina HALLADJA, Hassane AYADI  | (Skikda, Algeria) |
| PB28 | Theoretical structure and spectroscopic properties of the SrRb system. | Halima SAID, Mohamed FARJALLAH, and Hamid BERRICHE | (LIMA,Monastir Univ., Tunisia) |
| PB29 | Effects of Al doped zinc oxide transparent conductive oxide by spray pyrolysis | K. Salim, M. Medles, A. Bouzidi, H.TabetDerraz, M. F. Nehal, M. A. Benali, M .N. Amroun, Z. Kebbeb | (Sidi Bel Abbes, Algeria) |
| PB30 | Effet des additions et de traitement thermique sur la microstructure et le comportement à l’usure d’une fonte alliée au chrome | TOUHAMI Rim Chaima, HADJI Ali, BOUHAMLA Khedidja, CHARMATI Djihed | (Annaba, Algeria) |
| PB31 | preparation and characterization of ZnSnO3 thin films prepared by spray pyrolysis technique. | H. YAHI, A. BOUZIDI , SALIM.K, A. NAKRELA, M. MEDLES, H. TABET-DERRAZ, R.DESFEUX | (Sidi Bel Abbes, Algeria) |
| PB32 | Synthèse et caractérisation structurale des nanomatériaux Fe78 Al20 Cr2 obtenus par Mécanosynthése | N. Zerniz, M. Bououdina | (Eltarf, Algeria) |
| PB33 | etude de l’effet inhibiteur de l’extrait de l’agave americana sur la corrosion de l’acier ordinaire dans 0.5M H2SO4 | ABDERRAHMANE Sihem,ATHMANI Sameh, and KARDAS GÜLFEZA  | (Annaba, Algeria) |
| PB34 | Vibro-sensor modelcombining axial and radialmeasurements on rotating machinery | M.A. Amlila, A. EL Ballouti, F. Belhora, A. HAJJAJI, M. YESSARI | (Maroc ElJadida) |
| PB35 | Electric-Field tunable band offsets in van der Waals In2Se3/Bi2Se3 ferroelectric heterostructure. | T. Ayadi, M. Badawi, L. Debbichi, M. Said and S. Lebégue | (Annaba, Algeria) |
| PB36 | inhibition of corrosion onmild steel by an antibacterial drugin hydrochloric acid | Fadıla Benachour, Sıhem Abderrahmane,Sameh Athmani and Gulfeza Kardas | (Annaba, Algeria) |
| PB37 | Metal-Insulator-Semiconductor for high efficiency solar cells | Lahouaria Boudaoud, Nacera Boudaoud | (FST,TN) |
| PB38 | Etude des performances d’une cellule solaire à base de l’hétérojonction InxGa1-xN/SnS | A. Boumesjed, H. Mazari, K. Ameur, N. Benseddik, Z. Benamara, N. Benyahya, | (Sidi Bel Abbes, Algeria) |
| PB39 | Design and optimization of an LNA amplifier based on HEMT GaN transistors for microwave power applications | M. Gassoumi, A. Helali, H. Maaref, R. Mghaieth | (FST, TN) |
| PB40 | EFFET INHIBITEUR DE L’AGAVE AMERICANA SUR LA CORROSION DE L’ACIER ORDINAIRE DANS 0.5M H2SO4 | *Sameh Athmani , Sıhem Abderrahmane, Fadila Benachour , Amel Oulabass ,Kardas Gulfeza* | (Annaba, Algeria) |
| PB41 | *Efficacité inhibitrice de l’extrait naturel de l’O.F.I sur la corrosion de l’acier XC52 dans 1M H3PO4* | *Amel OULABBAS & SihemABDERRAHMANE* | (Annaba, Algeria) |
| PB42 | Optical properties of InAs/InP quantum wire with lens cross-section | F.Zaouali, A. Bouazra, M. Said | (FSM, TN) |
| PB43 | ADSORPTION AND INHIBITION STUDY OF 5- MERCAPTO-1-METHYL TETRAZOLE ON XC38 STEEL CORROSION IN 0.5M H2SO4 | Karima Abderrahim, Sihem Abderrahmane and Ramazan Solmaz | (Annaba, Algeria) |
| PB44 | EFFECT OF ADDITION OF SODIUM THIOSULFATE ON THE ELECTRODEPOSITION OF Cu2O THIN FILMS SOLAR CELLS  | Abed Mohamed AFFOUNE, Hassiba RAHAL and Rafiaa KIHAL | (Guelma, Algeria) |
| PB45 | Structural, Optical and Electrical Properties of Manganese Sulfide Thin Films Deposited by Spray Pyrolysis | Z. AMARA, M. KHADRAOUI, N. BENRAMDANE, R. MILOUA, K. SAHRAOUI | (Sidi Bel Abbes, Algeria) |
| PB46 | action inhibitricedu 1,2-bis (4-chlorobenzyl) azine sur la corrosion du cuivre dans NaCl A 3,5% | Ilhem Selatnia, Karima Abderrahim, and Assia Sid | (Annaba, Algeria) |
| PB47 | Biasdependentdielectric and electricproperties study of La0.8Ba0.1Ca0.1Mn0.9Co0.1O3at room temperature. | Gdaiem Mohamed Amaraa, , N.Hamdaouib,c, J. Dhahria | (FSM, Univ. Monastir,TN) |
| PB48 | Preparation and characterization of Chitosan /Carrageenan /Hydroxyethylcellulosebiomaterialsgels  | Samira BOUFAS & Mohamed ElHocineBENHAMZA | (Guelma, Algeria) |
| PB49 | *Fabrication of* α-*Fe2O3 thin films by spray pyrolysis and tuning the physical parameters for conductance ethanol gas sensing*  | Jlidi Dhaaou, A. Labidi | (IPEST TN) |
| PB50 | Structural, elastic, vibrational and thermodynamic properties of Cerium oxide CeO2. A combined experimental and ab inito investigation | T. Larbi a,b,, S. Abidi a and M. Amlouk | (FST,TN) |
| PB51 | Enhancement of the nonlinear optical rectification and the transition lifetime in lens-shaped quantum dots: Combined effects of wetting layer, pressure and temperature  | D. Makhlouf, M. Choubani, F. Saidi, H. Maaref | (IPEST, Univ. Carthage, TN) |
| *PB52\** | Some physical properties of In2S3 thin films | Y. Bchiri, N. Bouguila, M.A. López-Quintela, S. Alaya | (Univ. Gabes,TN) |
| PB53 | Investigation of the magnetic entropy change and Magnetic field dependence of critical behavior studies in La0.7Bi0.05Sr0.15Ca0.1Mn0.95In0.05O3 compound | Arwa.Belkahla, K. Cherif, J. DhahriandE.K.Hlil | (Monastir Univ., Tunisia) |
| PB54 | Mathematical modelling of semiconductor quantum wires and dots based on the coordinate transformation and finite difference method  | A. Bouazra,S. Abdi-Ben Nasrallah and M. Said | (Monastir Univ., Tunisia) |
| PB55 | Crystal structure, magnetic and magnetocaloricproperties of La0.67 (Ba0.75 Ca0.25)0.33 Mn0.95Ti0.05 O3manganites | Marwa.Bourguiba,J. Dhahri , E.K. Hlil , M Chafra | (FST, TN)  |
| PB56 | EFFECT OF YTTRIUM INSERTION ON STRUCTURAL, OPTICAL AND DIELECTRIC PROPERTIES OF 0.3Bi1-yYyFeO3-0.7Ba0.8Sr0.2TiO3 | Amel Kharouf, Abdelhedi Aydi | (Univ. Gabes, TN) |
| *PB57\** | The influence of passivation layer on Schottky AlGaN/GaN HEMTs | H.MOSBAHIa, F.Jablia, M.GASSOUMIa, C.GAQUIEREb, M.A. ZAIDIa, H. MAAREFa, R. M'Ghaietha | (Monastir Univ., Tunisia) |
| PB58 | Synthesis, crystal structure and electrical properties of new lyonsite Na2Co2(MoO4)3 | Rawia Nasri1, Mohamed Faouzi Zid1 | (Univ. Gabes, TN) |
| PB59 | Preparation and characterization of SiO2-TiO2 sol-gel glass doped with CdSe nanoparticles  | Nedra Saad, Mohamed Haouari, Alain Bulou, Hafedh Ben Ouada | LIMA |
| *PB60\** | Evaluation of Stem cell adhesion and proliferation on modified porous silicon surface | SOUSSI Ines | (LIMA,Monastir Univ., Tunisia) |
| *PB61\** | Comparative study of mechanical and structure properties of geopolymer matrices incorporated by nano-alumina and nano-zinc | Z. Zidi, M. Ltifi, Z.Ben Ayadi and L.El Mir | (Univ. Gabes, TN) |
| PB62 | First-principles investigation of the reaction of diazonium salts and dissociation mechanisms on the pristine graphene surface  | Sabrine Baachaoui,Afef Dammak, Rafaa Besbes, Fayçal Raouafi | (FST, TN) |
| PB63 | DFT and TD-DFT studies of novel copolymer involving carbazole and Poly(9,9-dioctylfluorene-alt-benzothiadiazole) (F8BT) used in high efficient dye-sensitized solar cells | M. Mbarek, K. Alimi (Univ. Monastir) | (Monastir Univ., Tunisia) |
| PB64 | Etude des propriétés optiques, électriques et structurales des cristaux liquides | I.MEJRI, T.MISSAOUI, Y.ARFAOUI, T.SOLTANI | (FST,TN) |
| PB65 | Tailoring of optical and structural properties of plasma treated Kapton-H Polyimide. | Lamia Guedri-Knani, Chérif Dridi. | (CRMN, TN) |

***\*with short oral communication***

**18h30 Best Poster Awards.**

**Closing session of MADICA 2016**