

11<sup>th</sup> 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**

**Vlastimil MATEJEC IPE, CAS**

*Materials for optical fibers for energy delivery*

**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. Nouredine RAOUAFI (Université de Tunis)**

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

**11h00**

**Coffee Break**

<b>Session A1 :Biosensors</b>	<b>Session B1: Nanomaterials</b>
<b>11h30A11.</b> Ilhem Rassas, Mohamed Braiek, Anne Bonhommé, François Bessueille, Hatem Majdoub, and Nicole Jaffrezic-Renault (Univ. Lyon, Univ. Monastir) <i>Elaboration of an enzymatic glucose biosensor based on the polyelectrolyte complex (Carrageenan and Chitosan) coupled with gold nanoparticles</i>	<b>11h30B11.</b> M. BOUAZIZI, N. BEL HAJ MOHAMED, N. JABA, M. HAOUARI, R. MLIKA (FSM) <i>Elaboration and characterization of vitreous silica matrices doped by luminescent CdSe nanoparticles and erbium ions</i>
<b>11h45 A12.</b> Amal Raouafi, Alfredo Sánchez, Reynaldo Villalonga, Nouredine Raouafi (Univ. Tunis, <i>Ultrasensitive detection of PSA using MB</i>	<b>11h45 B12.</b> Tayssir Missaoui, Taoufik Soltani, Hassen Touzi, Yves Chevalier, Hafedh Ben Ouada (Univ. Monastir, Univ. Lyon)

<p><i>intercalated on anti-PSA aptamer-modified electrode</i></p> <p><b>12h00 A13.</b>Z. Mazouz, M. Mokni, N. Fourati, C. Zerrouki, A. Othmane, R. Kalfat, A. Omezzine, A. Bouslema (INRAP, FMM, CNAM Paris) <i>MIP-based electrochemical sensor for sensitive detection of PSA in real samples</i></p> <p><b>12h15 A14.</b>Houda ESSOUSI, Houcine BARHOUMI (Univ. Monastir) <i>Electroanalytical application of molecular imprinted polymer matrix for dapsona determination in real pharmaceutical samples</i></p>	<p><i>Alignment layers for nematic liquid crystal cells</i></p> <p><b>12h00 B13.</b>M. Haouari, A. Maaoui (Univ. Monastir) <i>Temperature sensing ability using Er<sup>3+</sup> doped fluorotellurite glass</i></p> <p><b>12h15 B14.</b>Thamer Aloui, Najla Fourati, Hajer Tounsi Guerhazi, Samir Guerhazi and Chouki Zerrouki (Univ. Sfax, CNAM Paris) <i>Structural and morphological study of Transition Metal based Molybdate nanopowders; towards enhanced photocatalytic environmental application</i></p>
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### 12h30Lunch

<b>Session A2 :Biosensors</b>	<b>Session B2 :Materials</b>
<p><b>14h00 A21.</b>Conférence-clé <b>Mohamed CHEHIMI Univ Paris-Est</b> <i>Diazonium surface chemistry for the design of flexible sensors and actuators</i></p> <p><b>14h30 A22.</b>Salma. Bizid, Saber.Blili, Rym. Mlika, Ayoub. Haj Said, Hafsa. Korri-Youssoufi (Univ. Monastir, Univ. Paris-Saclay) <i>E-DNA biosensor based on Conjugated Redox Polymers and Multiwalled Carbon Nanotubes: Application to DNA detection of M. Tuberculosis</i></p> <p><b>14h45 A23.</b> Amina Touati, Mohamed Braiek, Hala Araar, Madjid Arab, Messaoud Benounis, Nicole Jaffrezic-Renault (Univ. Lyon, Univ. Khenchela) <i>A new sensitive conductometric biosensor based on MWCNT/ NPs used for determination of urea in blood samples</i></p> <p><b>15h00 A24</b>Ali Zazoua, Wassila Safari, Nicole Jaffrezic-Renault (Univ. Jijel, Univ. Lyon) <i>Performance of condensed tannins from green tea for the complexation of some endocrine disruptors in wastewater from the pharmaceutical industry</i></p> <p><b>15h15A25.</b>Hasna Mohammadi, Ghita Yammouri, Meryeme Benramdane, Aziz Amine (Univ. Casablanca) <i>Electrochemical biosensors based on magnetic beads, gold and carbon nanomaterials for early diagnosis of cancer biomarkers MicroRNAs-155, 21 and 125a</i></p>	<p><b>14h00 B21.</b>Conférence-clé <b>Claude Durrieu(Univ. Lyon, ENTPE)</b> <i>Algae to design biosensors</i></p> <p><b>14h30B22.</b> E. Akanny, A. Bonhomme, L. Bois C. Commun, A. Doleans-Jordheims, S. Bourgeois, C. Bordes, F. Bessueille (Univ. Lyon 1) <i>Development of Gold nanoparticles for the detection of Lactobacillus Rhamnosus GG by Surface Enhanced Raman Scattering</i></p> <p><b>14h45B23.</b>Rihab Chouk, Manel Bergaoui, Nejmeddine Jaballah, Mohamed Khalfaoui (Univ. Monastir) <i>New insights on optoelectronic and charge transport properties of PPV derivatives for OLED application</i></p> <p><b>15h00B24.</b>Ivo Barton, Vlastimil Matejec, Jan Mrazek, Luminita Predoana, Maria Zaharescu (Czech Acad Sci, Rom Acad) <i>Sol-gel preparation of hollow-core optical fibers with Na<sub>2</sub>O-TiO<sub>2</sub>-SiO<sub>2</sub> glass claddings</i></p> <p><b>15h15B25.</b>Awatef Ouhibi, Maroua Saadaoui, Mohammed Guendouz, NoureddineRaouafi, Adel Moadhen (Univ. Tunis) <i>Feasibility of Surface-enhanced Raman spectroscopy for rapid PSA detection via AgNPs/SiNWs</i></p>

<p><b>15h30 A26.</b>Najib Ben Messaoud, Abdellatif Ait Lahcen, <u>Chérif Dridi</u>, Aziz Amine (CRMN Sousse, Univ. Casablanca) <i>New Sensing Strategies for Highly Sensitive and Selective BPA detection</i></p>	<p><b>15h30B26.</b>Mourad Souibgui, Hosni Ajlani, AntonellaCavanna, Ali Madouri, MeherziOueslati and Abdelaziz Meftah (Univ. Tunis, CNRS Marcoussis) <i>Raman study of the stacking transition in bilayer graphene on h-BN on hexagonal boron nitride (h-BN) induced by thermally activated rotation</i></p>
<p><b>15h45 A27.</b>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) <i>Bisphenol S - based surface acoustic wave sensors for picomolar detection of lead ions</i></p>	<p><b>15h45 B27.</b>Fredj SAAD, Ayda BAFFOUN and MohamedHAMDAOUI (Univ. Monastir) <i>Dyeing of polyester woven fabric using a fluorescent organic dye with conventional and irradiation microwave technique</i></p>
<p><b>16h00 A28.</b>Houcine BARHOUMI, Meriam SBOUI, Zeineb Mzoughi and Hatem MAJDOUB (Univ. Monastir) <i>Polyaniline-pectin composite matrix modified glassy carbon electrode for calcium ion detection</i></p>	<p><b>16h00 B28.</b>A. Naifar, N. Zeiri, S. Abdi-Ben Nasrallah, M. Said (Univ. Monastir) <i>Optimization of optical properties of (CdSe/ZnTe/ZnS) core/shell/shell nanostructure</i></p>
<p><b>16h15 A29.</b>Malek Bibani, Nadia Ktari, Najla Fourati, Chouki Zerrouki and Rafik Kalfat (INRAP, CNAM Paris) <i>Development of a simple electrochemical analysis method for diethylstilbestrol detection</i></p>	<p><b>16h15 B29.</b> M. Mbarek, K. Alimi (Univ.Monastir) New carbazole-stilbene copolymer: synthesis, structural and photo-physical properties of films and nanowires elaboration</p>

**16h30 :Coffee Break**

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

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 biosensor 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	Wafa Machgoul, Hassen Touzi,	(Monastir)

	characterization of pesticide sensors	Hafedh Ben Ouada	Univ., Tunisia)
PA6	Non-enzymatic amperometric sensor for hydrogen peroxide detection based on a cross-linked redox-active polymer	Meriam Mattoussi, Fatma Matoussi, Nouredine Raouafi	(Univ. Tunis, Tunisia)
PA7	Interprétation des isothermes d'adsorption de la caféine sur un support solide	A. Nakbi <sup>1</sup> , A. ben Lamine <sup>1</sup>	(Monastir Univ., Tunisia)
PA8	Nouveau biocapteur à base d'un aptamère (3'NH <sub>2</sub> -APT-Cadmium) pour la détection du cadmium dans l'eau	Rabai Selma, Messaoud Benounis, Nicole Jaffrezic-Renault, Errachid Abdelhamid, Amina Rhouati, Abdoullatif Baraket	(Univ. Kenchela, Algeria)
PA9	Disposable electrochemical aptasensor for ciprofloxacin detection	S. Ben Aissa, G. Catanante, N. Raoufi, J-L. Marty	(Univ. Tunis, Tunisia)
PA10	Electrodes using the p19 viral protein to recognize RNA/miRNA homoduplexes	Mohamed Zouari, <u>Amira Ben Hassine</u> , Rihab Sahli, Nouredine Raouafi	(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: A reliable tool for measuring salinity and moisture within soils in Tunisian arid land.	Chaieb Ghassen, Abdely Chedly & 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) biosourcées pour la perméation gazeuse	Ibtissem Jlalja-Berriche, Régis Mercier, Catherine Marestin, Saber Chatti	(INRAP, Tunisia)
PA15	Development of an optical immunosensor based on ceria nanoparticles for $\alpha$ -lactalbumin detection	Arwa Laroussi, Nouredine Raouafi	(Univ. Tunis, Tunisia)
PA16	Développement de capteurs électrochimique non enzymatique à base de Cu <sub>x</sub> Zn <sub>1-x</sub> O 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, Rihab Sahli, Nouredine Raouafi	(Univ. Tunis, Tunisia)
PA18	Detection of Trace Heavy Metal Ions	N. Mecheri, M. Benounis, H.	(Univ.

	- Iron(III)- by cyclic voltammetry and square wave voltammetry methods	Barhoumi	Kenchela, Algeria)
PA19	Development of hydrogen peroxide biosensor based on advanced DNA/enzyme architectures	Maroua Meftah, BeyaHaouas, Vladimir Mirsky, Nouredine Raouafi	(Univ. Tunis, Tunisia)
PA20	Elaboration of a Fluorescent Biosensor for DNA Detection Based on Silica Nanoparticles and ITO Substrate.	Azza BEN AKACHA, <u>Rihab SAHLI GANNOUNI</u> , Nouredine 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	Anovel laccase biosensor based on polyelectrolyte complex for the detection of phenolic compounds	HajerChakroun, 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	<u>M. Erouel</u> , C. Jamois, L. Berguiga and K. Khirouni	(Univ. bizerte, Tunisia)
PA27	Design and Performance evaluation of interdigitated micro-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	<u>Vlastimil Matejec</u> , Ivo Barton, Ondrej Podrazky, Marie Pospisilova, Lenka Traplova	(Czech Republic)
PA30	Thickness effect on ethanol sensing response of sprayed b-In <sub>2</sub> S <sub>3</sub> thin films	<u>R. Souissi</u> , N. Bouguila, A. Labidi	(Univ. Carthage)

PA31	Gold electrode functionalized with a natural theobromine-based membrane for the urea monitoring in urine	Ali Zazoua, Imane Boubezari, Sarra Bouraoui, Nicole Jaffrezic-Renault	(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	Développement d'une nuance d'un acier résistant à l'usure	AYADI Souad, HADJI Ali	(Univ. Annaba, Algeria)
PA34	characterization and studying 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. Neffah, M. F. Nehal, Z. Kebbab	(Univ. Sidi bel Abbas, Algeria)
PA35	Effect of working pressure on the properties of NbN films grown on Si substrate	K. Bekhedda, N. Redjda, H. Menari, N. Gabouze	(Univ. Alger, Algeria)
PA36	Structural and optical properties of Mg-doped CuFeO <sub>2</sub> thin films prepared 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 Yahia, 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. Tabet Derraz, A. Bourguig, A. Neffah	(Univ. Sidi bel Abbas, Algeria)
PA39	Electrochemical deposition of Semiconductor-Oxides for CO <sub>2</sub> 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 Abbas, 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 <sup>+</sup> 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 Abbas, Algeria)

PA44	Optimization of solar cell efficiency based on PN junction p-In <sub>x</sub> Ga <sub>1-x</sub> N/n-In <sub>x</sub> Ga <sub>1-x</sub> N .	A. Khetrou, 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. Ameer, 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. Benykrelf,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, Nouredine DERGUINI, mohamed loucif seiad , Oum El kheir HADJ RAHMOUNNouredine TAYEBI, Samar Mohamed El-Hadi, Kherrat Rochedi.	(Univ. Annaba, Algeria)
PA53	Investigations of TiO <sub>2</sub> sensing properties under alcohols	<u>S. Ben Nacer a., S. Touihri b, M. Maaref</u>	(Univ. Carthage, TN)
PA54	Polydopamine Molecularly Imprinted Polymer for Electrochemical Protein Recognition	Amal TLILI., Ali OTHAMNE, Najla FOURATI, Chouki ZARROUKI	(FMM,M onastir Univ.)
PA55	In-situ studyof intercellular nanotubes inbacteria by Atomic Force Microscopy	Samia DHAHRI <sup>a</sup> , Christian MARLIERE <sup>b</sup>	(NANO MISENE, CRMN,

			Tunisia)
PA56	Oxygen detection at room temperature by In <sub>2</sub> S <sub>3</sub> 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 film by using electrochemical impedance spectroscopy. Application to the determination of adsorbed 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/ glycosylated 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-Bouchet <sup>1</sup> , Leticia Konadu and Abel Rangel	(Univ. Lyon, Fr)
PA 64	NMR Microcoil : Electrical model and resulting ohmic losses	Latifa Fakri-Bouchet, José Bernardo,, Lucas Werling, Duc-Vinh Nguyen, Wilfried Uhring, Youssef Zaim Wadghiri, Luc Hebrard	(Univ. Lyon, Univ. Strasbourg, New York Univ)
PA 65	Optimization of parameters for electrospinning Polyvinyl chloride on HfO <sub>2</sub> 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 <sup>+</sup> selective	S. Merzouk, N. Zine, J. Bausells, F.	(Univ. Lyon, CSIC)



	microelectrode using PPy [3,3'-Co(1,2-C <sub>2</sub> B <sub>9</sub> H <sub>11</sub> ) <sub>2</sub> ] as a solid contact	Teixidor, N. Renault-Jaffrezic, and A. Errachid	Barcelona)
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*\*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**

**9h30**

**Plenary Conference VI**

**Eithne EMPSEY (Maynooth University, Ireland)**  
**Biosensing Devices for Animal Fertility and Disease Monitoring**

**10h00**

**Coffee Break**

<b>Session A3 :Biosensors</b>	<b>Session B3 :Materials</b>
<p><b>10h30A31.</b> Z.Hsine, S.Bizid, S. Blili, A. Haj Said, R.Mlika, H. Korri-Youssoufi (Univ. Monastir, Univ. Paris-Saclay) <i>Electrochemical sensor based on redox polymer for the detection of dopamine: Application in serum</i></p>	<p><b>10h30B31.</b> B. Bouricha, A. Othmani, A. Labidi (Univ. Carthage) <i>Ethanol sensing with ZrO<sub>2</sub> sol-gel thin film.</i></p>
<p><b>10h45 A32.</b> M. Saadaoui, A. S. Sanchez, R. V. Santana, J. M. Pingarron and N. Raouafi (Univ. Tunis, Univ. Madrid) <i>A smart DNAzyme-based biodevice supported onto nanochannels silica film for dual detection of Cu<sup>2+</sup> ions and ascorbic acid in real samples</i></p>	<p><b>10h45B32.</b> Karima Ayeb, Noomen Moussa, Mohamed Faouzi Nsib, Salvatore Gianluca Leonardi, Giovanni Neri (FSG) <i>CO and NO<sub>2</sub> sensing properties of N-doped ZnO nanoparticles</i></p>
<p><b>11h00 A33.</b> I. Soussi<sup>1</sup>, Z. Mazouz, M. Echabaane, P.Y. Collart-Dutilleul, F. Cuisinier, M. Martin, T. Cloitre, R. Mghaieth, F. Cunin, C. Gergely, A. Othmane (LIMA, F.M.Monastir) <i>Evaluation of Stem cell adhesion and proliferation on modified porous silicon surface</i></p>	<p><b>11h00 B33.</b> S. Jaballaha, H. Dahmana, L. El Mir (Univ. Gabes) <i>ELABORATION AND CHARACTERISATION OF MAGNESIUM DOPED ZnO NANOPARTICLES BY SOL-GEL ROUTE FOR APPLICATION IN GAS SENSORS</i></p>

<p><b>11h15A34.</b>Maroua Hamami, Nouredine Raouafi, Hafsa Korri-Youssoufi (Univ Paris-Saclay, Univ. Tunis) <i>Hybrid nanomaterials MoS<sub>2</sub>/polypyrrole as platform of aptasensors for electrochemical detection of antibiotic as water contaminant</i></p> <p><b>11h30A35.</b>D. Ayed, E. Laubender, M. Souiri, O. Yurchenko, H. Marmouch, G. Urban, and A. Othmane <i>Carbon Nanotubes Supported Ru-Au Nanoparticles with Core-Shell Structure for Glucose Detection with High Resistance against Chloride Poisoning</i></p> <p><b>11h45A36.</b>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) <i>A novel Capacitance Electrochemical Biosensor Based on Silicon Nitride Transducer for TNF-<math>\alpha</math> Detection</i></p> <p><b>12h00A37.</b>Randa Mrad, Nassim Ben Brahim, Rafik Ben Chaâbane, Michel Negrerie (Univ. Monastir, Ecole Polytechnique) <i>Functionalized CdSe quantum dots-based luminescence probe for detection of copper ions in aqueous solution.</i></p> <p><b>12h15A38.</b> JEBRIL Siwar, KHANFIR BEN JENANA Raoudha, DRIDI Chérif, (CRMN,Tunisia) <i>Silver nanoparticles Green synthesis, characterisation &amp; application for agriculture</i></p>	<p><b>11h15 B34.</b> M. Laajimi, A. Jebnoui, R. Ben Chaabane, M. Chemli (Univ. Monastir) <i>Dielectrical study and O<sub>2</sub> sensing properties of anthracene and carbazole based <math>\pi</math>-conjugated molecule</i></p> <p><b>11h30B35.</b>W. Ahmed, I. Najeh, H. Dahman and L. El Mir (Univ. Gabès, IMSIU Riyadh) <i>Elaboration and characterization of nanoporous conductive carbon based on resorcinol-formaldehyde xerogel.</i></p> <p><b>11h45B36.</b>Kada Mohamed El Amine Boureguig, Hind Tabet-Derraz, Mohammed Amine Benali (Univ. Sidi-bel-Abbès) <i>Study of Structural, Morphological and Optical Properties of tricobalt tetraoxide Thin Layer prepared by spray pyrolysis deposition</i></p> <p><b>12h00B37.</b>Bilel Achour, Nadia Aloui, Najla Fourati, Chouki Zerrouki, Nourdin Yaakoubi and Kosai Raouf (CNAM Paris, Univ. Du Maine) <i>Modelling and simulation, a predicting and optimization tool for SAW sensors sensitivity enhancement</i></p> <p><b>12h15B38.</b> Achref CHEBIL, Vincenzo Mazzaracchio, Stefano Cinti, Chérif DRIDI, Fabiana Arduini (CRMN Sousse, Univ. Rome) <i>All solid state flexible supercapacitor based on paper coated with Carbon Black and Prussian Blue</i></p>
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### 12h30Lunch

<b>Session A4 :Biocapteurs</b>	<b>Session B4 :Matériaux</b>
<p><b>14h00 A41.</b>Conférence-clé <b>Aziz Amine (Univ Hassan II Casablanca)</b> <i>Recent advances on Biosensors for Environmental Monitoring.</i></p> <p><b>14h30 A42.</b>Hassen Touzi,Wafa Machgoul, Ayoub Haj Said, Yves Chevalierb, Nicole Jaffrezic-Renault <i>methyl-naphthyl cyclen thin films as dye chemical sensors.</i></p>	<p><b>14h00 B41.</b> Conference-clé <b>Denis Beyssen (Univ Lorraine)</b> <i>Acoustic (bio)sensors, acoustofluidics and Lab-on-Chip applications</i></p> <p><b>14h30 B42.</b>Antoine Gosset, Louis Renaud, Claude Durrieu, Pauline Barbe, Rémy Bayard, Jean-François Chateaux (Univ. Lyon) <i>Development of an integrated microfluidic algal biosensor for water pollution: tests on real samples</i></p>

<p><b>14h45 A43.</b>Zouhair Ait Touchente, Housseem 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) <i>Zinc oxide nanorods wrapped with ion-imprinted polypyrrole polymer for picomolar selective electrochemical detection of mercury II ions</i></p> <p><b>15h00 A44.</b>D. Najlaoui, M. Echabaane, A. Rouis, Arbia Ben Khélifa, H. Ben Ouada (Univ. Monastir) <i>Optical and electrochemical detection of sufaguanidine using a mixed isopolymolybdate[Eu(dmsO)8] [Eu(<math>\eta</math>2-NO<sub>3</sub>)<sub>2</sub>(dmsO)4(<math>\alpha</math>-Mo<sub>8</sub>O<sub>26</sub>)<sub>0.5</sub>][Mo<sub>6</sub>O<sub>19</sub>]</i></p> <p><b>15h15 A45.</b>D. Jemmeli, C. Dridi, E. Marcoccio, D. Moscone, F. Arduini (CRMN Sousse, Univ. Rome) <i>Voltammetric determination of bisphenol A in water using paperbased electrode (<math>\mu</math>PAD) modified with carbon black</i></p> <p><b>15h30 A46.</b>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) <i>Thickness Effects on pH Response of HfO<sub>2</sub> Sensing substrates grown by atomic layer deposition</i></p> <p><b>15h45 A47.</b>Amal Rabti, Nouredine Raouafi (Univ. Tunis) <i>Reduced graphene oxide-based standalone electrodes for (bio)sensing applications</i></p> <p><b>16h00 A48.</b>Chaima Nasraouia, Najeh Jaouad, Rafik Kalfat, Yves Chevalier, Souhaira Hbaieb (INRAP, Univ. Lyon) <i>Synthesis of Molecularly Imprinted Polymers for Selective Adsorption of Mitotane</i></p> <p><b>16h15 A49.</b>Waad El Mejria, Najeh Jaoued, Amira Anene, Rafik Kalfat, Yves Chevalier, Souhaira Hbaieb (INRAP, Univ. Lyon) <i>Synthesis of solid phase extraction with Histamine imprints</i></p>	<p><b>14h45 B43.</b>Chafia BOUASLA, Oum El kheir HADJ RAHMOUN, mohamed loucif seiad1, Nouredine DERGUINI1, Nouredine TAYEBI, Mohamed El-Hadi SAMAR, Rochdi KHERRAT (CDTA Algiers, Univ. Stanford, Univ. Annaba) <i>modelisation de l'adsorption de l'albumine sur des electrodes interdigitee dans une puce microfluidique par la methode d'element fini</i></p> <p><b>15h00 B44.</b>Yosra Saad, Marwa Selmi, Mohamed Hichem Gazzah et Hafedh Belmabrouk (Univ. Monastir) <i>Magnetic field effect on mass transport at the microfluidic biosensor surface</i></p> <p><b>15h15 B45.</b>B. Nessark, N. Harfouche, L. Hasniou, F. Nessark, F. Habelhames, A. Bahloul (Univ. Sétif) <i>Synthesis, characterization and analysis of the electrochemical and spectroscopic properties of composite materials (POC/SC) - use as materials for the design of biosensors and electronic components.</i></p> <p><b>15h30 B46.</b>Omar Rejaiba, Alejandro F. Braña, Adel Matoussi (Univ. Sfax, Universidad Autonoma de Madrid) <i>Investigation of interface states in ECR-PECVD MOS (Al/SiO<sub>2</sub>/p-Si) structures by admittance spectroscopy measurement</i></p> <p><b>15h45 B47.</b>M. Sebai, I. Trabelsi and M. Kanzaria (Univ. Tunis, ENIT) <i>Etude des propriétés électriques des films minces Cu<sub>2</sub>Zn<sub>x</sub>Fe<sub>1-x</sub>SnS<sub>4</sub> par la spectroscopie d'impédance</i></p> <p><b>16h00 B48.</b>R. ZAIER, F. MAHDHAOUI, S. AYACHI and T. BOUBAKER (Univ. Monastir) <i>Structural, Vibrational and Nonlinear Optical Properties of Small Conjugated Molecules Derived From Pyridine: A Joint Experimental and Theoretical Study</i></p> <p><b>16h15 B49.</b>B. Tiss, M. Erouel, N. Bouguila, M. Kraini, S. Alaya (Univ. Gafsa) <i>Effect of silver doping on the structural and optical properties of sprayed In<sub>2</sub>S<sub>3</sub> thin films.</i></p>
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**16h30 : Coffee break**

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

PB1	Influence of Bismuth substitution on structural and optical properties of $\text{Bi}_x\text{Zn}_{1-3x/2}\text{O}$ ( $x=0.00; 0.005; 0.007$ and $0.05$ ) oxides	Emna Bouzaiene, F.I.H.Rhouma, J.Dhahri	(FSM, Monastir Univ., Tunisia)
PB2*	DFT investigation of Optoelectronic Characterization and Nitrogen dioxide Adsorption Effects on new Zinc phthalocyanine	M.Chaabene, R. Ben Chaabane, A.R. Allouche	(LIMA, Monastir Univ., Tunisia)
PB3	<i>Influence of temperature on electrical and dielectric properties of sodium sulfo-borophosphate glass</i>	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, Jilani Wissal, Fourati Najla, Zerrouki Chouki, Guinault Alain, Guermazi Samir, Guermazi Hajer	(FSS, Sfax Univ., Tunisia)
PB5	Crystal structure and dielectric properties of Nb doped in $\text{Ba}_{0.97}\text{La}_{0.02}\text{Ti}_{0.98}\text{O}_3$ perovskite prepared using the KCl flux method.	Marwa.Jebli, N. Abdelmoula and J.Dhahri	(FSM, Monastir Univ., Tunisia)
PB6	Temperature sensing ability through 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 $\text{Cu}^{2+}$ absorbent layer deposited on Glass by Spray pyrolysis with different Substrates temperatures	Bachir Messaid, Razika Zair Talaighil, Claire Le Paven, Faycal Bensouici, Ratiba Benzerga, Laurent Le Gendre, Florent Marlec	(Boumerdes, Algeria)
PB8	SYNTHÈSE ET CARACTÉRISATION DE FILM MINCE DE $\text{HKUST-1}$ DÉPOSÉE 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 magnetocaloric properties of $\text{La}_{0.6}\text{Nd}_{0.1}\text{Ba}_{0.3}\text{Mn}_{0.9}\text{Cr}_{0.1}\text{O}_3$ manganites	Amel BenHassine ,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 organic materials 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 $\text{Cu}_2\text{ZnSnS}_4$ thin films	S. Chamekh, N. Khemiri, M. Kanzari	(ENIT, TN)
PB17	Preparation and characterization of Polyethyleneimine methylene phosphonic acid Grafted magnetic $\text{Fe}_3\text{O}_4$ 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, Houyem Snani, Radhia Souissi, Régis Mercier, Saber Chatti	(INRAP, TN)
PB20	Elaboration of polymeric phase for selective adsorption of 2-Phenylbenzimidazole-5-Sulfonic Acid	Soumya Kouki, Amira Anene, Najeh Jaoued, Yves Chevalier, Rafik Kalfat, Souhaira Hbaieb	(INRAP, TN)
PB21	Bi adsorption on $\text{InAs}(001) - \beta_2(2 \times 4)$ and $\alpha_2(2 \times 4)$ surface: An Ab Initio-Based Approach	K. Kourchid, R. Alaya, M. Mbarki	(Univ. Gabes, TN)
PB22	Interactions and Low-energy collisions properties 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. AZZAOU.	(Sidi Bel Abbes, Algeria)
PB25	Etude des propriétés inhibitrices de corrosion d'un colorant alimentaire de l'acier 304L dans $\text{H}_2\text{SO}_4$ 0,5M	S. Ouchenane , S. Abderrahmane, A. Gharbi ,	(Annaba, Algeria)

PB26	Structural and morphological properties of as-synthesized $\text{Cu}_2\text{Zn}_x\text{Fe}_{1-x}\text{SnS}_4$ 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 $\text{ZnSnO}_3$ thin films prepared by spray pyrolysis technique.	H. YAHY, A. BOUZIDI , SALIM.K, A. NAKRELA, M. MEDLES, H. TABET-DERRAZ, R.DESFEUX	(Sidi Bel Abbes, Algeria)
PB32	Synthèse et caractérisation structurale des nanomatériaux $\text{Fe}_{78}\text{Al}_{20}\text{Cr}_2$ obtenus par Mécanosynthèse	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 $0.5\text{M H}_2\text{SO}_4$	ABDERRAHMANE Sihem,ATHMANI Sameh, and KARDAS GÜLFEZA	(Annaba, Algeria)
PB34	Vibro-sensor model combining axial and radial measurements 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 $\text{In}_2\text{Se}_3/\text{Bi}_2\text{Se}_3$ ferroelectric heterostructure.	T. Ayadi, M. Badawi, L. Debbichi, M. Said and S. Lebégue	(Annaba, Algeria)
PB36	inhibition of corrosion on mild steel by an antibacterial drug in hydrochloric acid	Fadila Benachour, Sihem 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 $\text{In}_x\text{Ga}_{1-x}\text{N}/\text{SnS}$	A. Boumesjed, H. Mazari, K. Ameer, 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 H <sub>2</sub> SO <sub>4</sub>	Sameh Athmani , Sihem 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 H <sub>3</sub> PO <sub>4</sub>	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 H <sub>2</sub> SO <sub>4</sub>	Karima Abderrahim, Sihem Abderrahmane and Ramazan Solmaz	(Annaba, Algeria)
PB44	EFFECT OF ADDITION OF SODIUM THIOSULFATE ON THE ELECTRODEPOSITION OF Cu <sub>2</sub> O 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 inhibitrice du 1,2-bis (4-chlorobenzyl) azine sur la corrosion du cuivre dans NaCl A 3,5%	Ilhem Selatnia, <u>Karima Abderrahim</u> , and Assia Sid	(Annaba, Algeria)
PB47	Bias dependent dielectric and electric properties study of La <sub>0,8</sub> Ba <sub>0,1</sub> Ca <sub>0,1</sub> Mn <sub>0,9</sub> Co <sub>0,1</sub> O <sub>3</sub> at room temperature.	Gdaïem Mohamed Amara <sup>a</sup> , N.Hamdaoui <sup>b,c</sup> , J. Dhahri <sup>a</sup>	(FSM, Univ. Monastir, TN)
PB48	Preparation and characterization of Chitosan /Carrageenan /Hydroxyethylcellulose biomaterials gels	Samira BOUFAS & Mohamed ElHocine BENHAMZA	(Guelma, Algeria)
PB49	<i>Fabrication of α-Fe<sub>2</sub>O<sub>3</sub> thin films by spray pyrolysis and tuning the physical parameters for conductance ethanol gas sensing</i>	Jlidi Dhaaou, A. Labidi	(IPEST TN)
PB50	Structural, elastic, vibrational and thermodynamic properties of Cerium oxide CeO <sub>2</sub> . A combined experimental and ab initio 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. Makhlof, M. Choubani, F. Saidi, H. Maaref	(IPEST, Univ. Carthage, TN)
PB52*	Some physical properties of In <sub>2</sub> S <sub>3</sub> 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 $\text{La}_{0.7}\text{Bi}_{0.05}\text{Sr}_{0.15}\text{Ca}_{0.1}\text{Mn}_{0.95}\text{In}_{0.05}\text{O}_3$ compound	Arwa.Belkahla, K. Cherif, J. Dhahri and E.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 magnetocaloric properties of $\text{La}_{0.67}(\text{Ba}_{0.75}\text{Ca}_{0.25})_{0.33}\text{Mn}_{0.95}\text{Ti}_{0.05}\text{O}_3$ manganites	Marwa.Bourguiba, J. Dhahri, E.K. Hlil, M. Chafra	(FST, TN)
PB56	EFFECT OF YTTRIUM INSERTION ON STRUCTURAL, OPTICAL AND DIELECTRIC PROPERTIES OF $0.3\text{Bi}_{1-y}\text{YyFeO}_3-0.7\text{Ba}_{0.8}\text{Sr}_{0.2}\text{TiO}_3$	Amel Kharouf, Abdelhedi Aydi	(Univ. Gabes, TN)
PB57*	The influence of passivation layer on Schottky AlGaIn/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 $\text{Na}_2\text{Co}_2(\text{MoO}_4)_3$	Rawia Nasri, Mohamed Faouzi Zid	(Univ. Gabes, TN)
PB59	Preparation and characterization of $\text{SiO}_2\text{-TiO}_2$ sol-gel glass doped with CdSe nanoparticles	Nedra Saad, Mohamed Haouari, Alain Bulou, Hafedh Ben Ouada	LIMA
PB60	Étude de l'impact de l'amplificateur Er Yb Codoped Waveguide dans les réseaux d'accès	B.Berrahal, Y.Gafour, Z.Mahdjoub	(Univ. Sidi Bel abbes, Algeria)
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	Sabrina Baachaoui, Afef Dammak, Rafea 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**