



**Third International Symposium on Dielectric Materials and Applications (ISyDMA'2018)**  
Beni Mellal, Morocco, April 17-20, 2018

April 18-20, Beni Mellal, Morocco



**USMSphysics**  
Young Minds Section

Timing	Wensday 18 April 2018			
10:30 - 13:30	Registration	Beni Mellal		
14:30 -15:30	Registration	Conference room I		
	Opening Ceremony	Faculty of Sciences and Technics		
15:30 -16:00	Welcome Reception	Conference room I		
16:00 - 19:00	Invited Speaker I	<b>Chairs : Pr A. Outzourhit &amp; Pr K.Nounah</b> <b>Pr C. Yasuo (Japan) &amp; Pr L.C.Costa (Portugal)</b>		
	Technical Sessions	Conference room I <b>Chairs Pr R. Messoussi &amp; Pr R. Touahni</b> OA1, OA2,OA3, OA4,OA5, OA6,OA7, OA8, OA9, OA10,OA11&OA12		
Timing	Thursday 19 April 2018	Conference room I		
08:30 - 10:00	Invited Speaker II	<b>Chairs : Pr L. Costa &amp; Pr M. EL Outhmani</b> <b>Pr C. Brosseau (France), Pr C. Popov (Germany) &amp; Roger M. Leblanc (USA)</b>		
10:00-10:15	Coffee Break	Conference room I		
10:15-14:15	Technical Sessions	<b>Chairs Pr H Grimech &amp; Pr M. Aitali</b> OA13, OA14, OA15, OA16, OA17, OA18, OA19, OA20, OA21,OA22,OA23 &OA24		
Lunch				
15:30-16:30	Technical Sessions	Session B1(confrence room I) Chair : Pr A. Liba OB1 , OB2 , OB3 , OB4 , OB5 , OB6 ,	Session C1 (confrence room II) Chair : Pr J.Bengourram OC1 , OC2 , OC3 , OC4 , OC5 , OC6 ,	Session D1(confrence room III) Chair : Pr H. Aitrimouch OD1 , OD2 , OD3 , OD4 , OD5 , OD6 ,
		Free afternoon		
		Gala Dinner		
Timing	Friday 20 April 2018	Conference room I		
8:30-09:00	Invited Speaker IV	Conference room I <b>Chairs : Pr M. S. Achour &amp; Pr C. Yassuo</b> <b>Pr T. Petkova (Bulgarie) &amp; Pr. P. Graça (Portugal)</b>		
09:00 - 11:00	Technical Sessions	Session B1(confrence room I) Chair : Pr A. Liba OB07 , OB08 , OB09 , OB10 , OB11 , OB12 , OB13,OB14, OB15	Session C1 (confrence room II) Chair : Pr A. Assouli OC07 , OC08 , OC09 , OC10 , OC11 , OC12 , OC13 , OC14 , OC15	Session D1(confrence room III) Chair : Pr A. Kouidder OD07 , OD08 , OD09 , OD10 , OD11 , OD12 , OD13 , OD14 , OD15
	Panel	Poster Presentations (Session A)		
11:00-11:30	Coffee Break	Poster Presentations (Session A) PA1 , PA2 , ..... , PA40		
	Invited Speaker V	Conference room I <b>Chairs : Pr A.Oueriagli &amp; Pr H. Odagawa</b> <b>Pr K. Rahmoun (Algeria), Pr P. Petkov &amp; Pr A. Hamraoui (France)</b>		
Lunch				
15:00-16:30	Invited Speaker III	Conference room I <b>Chairs : Pr A. Outzourhit &amp; Pr M. Mabrouki</b> <b>Pr. M. AL-HUSSEIN, Pr. A. Ihlal (Morocco) &amp; A. Tachafine(France)</b>		
	Panel	Poster Presentations (Session A)		
16:30-17:00	Coffee Break	Poster Presentations (Session A) PA41 , PA2 , ..... , PA80		
	Technical Sessions	Session B1(confrence room I) Chair : Pr A. Liba OB16 , OB17 , OB18 , OB19 , OB20 , OB21 , OB22 , OB23	Session C1 (confrence room II) Chair : Pr A. Abounada OC16 , OC17 , OC18 , OC219, OC20 , OC21, OC22 , OC23	Session D1(confrence room III) Chair : Pr M. Habade OD16 , OD17 , OD18 , OD19 , OD20 , OD21 , OD22 , OD23
Awards and closing ceremony				
Timing	Saturday 21 April 2018			
06:00	Excursion			

# ISyDMA

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Index Presentation	Last Name	First Name	Country	Title of Presentation
OA01	Hiroyuki	Odagawa	Japan	Nondestructive Measurements of Double-Layered Piezoelectric Polarity-Inverted Structure Using Scanning Nonlinear Dielectric Microscopy
OA02	Asma	TRIKI	Tunisia	Vibrational and dielectric analyses of alkali treated flax fibers reinforced epoxy structures
OA03	Hilal	Hikmat	Jordan	Influence of solid/liquid charge transfer catalysis on conversion efficiency and stability of nano-film electrode solar cells
OA04	BENSALEM	Chaouki	Algeria	Spectroscopie des céramiques pour l'amélioration du rendement des cellules photovoltaïques
OA05	Yakubu	Abubakar	Nigeria	Synthesis, Structural and Dielectric Properties of Sintered CoZnFe nano Particles Prepared by Mechanical Alloy Method
OA06	Zelikha	Necira	Algeria	Structural and dielectric studies of ferroelectric $Pb_{0.98}M_{0.02}[(Zr_{0.50}Ti_{0.48})(Mg_{1/3}Nb_{2/3}-Ni_{1/3}Sb_{2/3})_{0.02}]O_3$ sintered ceramics
OA07	Aktas	Bulent	Turkey	Investigation of the ionic conductivity with impedance spectroscopy of 8YSZ doped with La <sub>2</sub> O <sub>3</sub>
OA08	Kulik	Miroslaw	Russian Feder	The optical spectra and chemical composition of native oxide layers on hot implanted GaAs
OA09	Youcef	BENAISSA CHER	Algeria	first principal calculation of the electronic band profiles, optical and elastic Properties of cubic and orthorhombic BaThO <sub>3</sub>
OA10	Narjis	Abdelfattah	Morocco	Annealing effect on structural properties of pure and aluminium doped zinc oxide powders synthesized by sol-gel method
OA11	Kim	Hyo Tae	Korea, Repub	Electrical Properties of Zirconia-toughened Alumina Ceramics with Boron Nanotubes Addition
OA12	Zidi	Naima	Algeria	Dielectric, ferroelectric, and piezoelectric properties of BCTZ-x%CuBi <sub>2</sub> O <sub>4</sub> lead free ceramics
OA13	KAHOUL	Fares	Algeria	Study of the structural and electrical properties of (1-x)PZT-xSFN ceramic systems

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OA14	Bai	Jinbo	France	Largely enhanced dielectric performance of PVDF nanocomposites by the core-shell structured inorganic carbon hybrids
OA15	Nouneh	Khalid	Morocco	Low cost thin films deposition of metal oxide and nanostructures for energy and environment
OA16	El Hasnaoui	Mohamed	Morocco	Analysis of dielectric relaxations of biocomposite based on green cellulose microcrystal reinforced vinyl resin matrix.
OA17	HEMINE	Jamal	Morocco	Electroclinic effect in the ferroelectric liquid crystal materials
OA18	rabaa	hassan	Morocco	Modeling of the reactivity of the glucose with hydroxylated antimony (V) oxide clusters
OA19	ALMAGGOUS	Abdelmajid	Morocco	Optical and structural properties of SnS as a solar cell absorber material: complexing agent effect
OA20	El Hasnaoui	Mohamed	Morocco	Thermal and electrical studies of heterogeneous material based on carbon black dispersed on copolymer nanocomposite
OA21	KHARROUBI	MOHAMED	Algeria	Electrical conductivity and dielectric properties of rare earth ions (Ce <sup>3+</sup> , Pr <sup>3+</sup> , Eu <sup>3+</sup> ) doped in zinc sodium phosphate glass
OA22	S. Soreto	Teixeira	Portugal	Comparison of lithium ferrite powders prepared by sol-gel and solid state reaction methods
OA23	Silvia	Gavinho	Portugal	Antibacterial glasses, preparation, structural and electrical properties
OA24	Nanosurf /HTDS			Présentation des équipements scientifiques

Oral Session B / Conference Room 1

OB01	Guenouni A	zineb	Morocco	Copolymers monolayer used for templating silver colloids obtained by surface radiolysis
OB02	Boulma	el-haine	Algeria	Mécanismes De Transfert D'énergie Et Mesure Des Durées De Vie Experimentales Des Principaux Niveaux Emetteurs Des Ions Er <sup>3+</sup> Dans Des Cristaux De Type Fluorite
OB03	KHERIS	SALIHA	Algeria	The effect of the chromatic dispersion in the optical transmission
OB04	LABRAG	Abdelaziz	Morocco	Magneto-resistance anisotropy in YBCO thin film
OB05	BGHOUR	Mustapha	Morocco	Magneto-resistance in YBCO thin film
OB06	GUERMAT	Noubeil	Algeria	Study and simulation of response time for diffusion water molecule into a thin film of tetraethoxysilane
OB07	ABBAS	FOUZIA	Algeria	The influence of Hg <sup>2+</sup> doping and annealing temperature on grown of TiO <sub>2</sub> nanostructure obtained by sol-gel method

OB08	Ahmed	Bouzid	Morocco	Detection and estimation of the depth of defects by modulated infrared thermography (Lock-in)
OB09	rabaa	hassan	Morocco	Computational Studies of the Energy Stabilization MMA and PMMA on the surface of silicon oxide
OB10	Nabila	Guechtouli	Algeria	ETUDE DFT DE LA STABILITE DES ISOMERES DES CLUSTERS $Si_3H_3^+$ et $Ge_3H_3^+$
OB11	NAIMA	GUENIFI	Algeria	Study and Simulation of Degradation of MOS Transistor Using SILVACO ATHENA and Matlab in 3D
OB12	EL KISSANI	ABDELKADER	Morocco	A facile route for synthesis of cadmium sulfide thin films
OB13	Nasreddine	MOULAYAT	Algeria	Influence of an electrochemical nickel deposit on the corrosion of stainless steels AISI 316 in a basic medium
OB14	Berrichi	Amina	Algeria	Bimetallic gold nanoparticle catalyzed three components coupling to propargylamine
OB15	ROGTI	FATIHA	Algeria	Effect of reversing the polarity on the formation of interfacial charge in multilayer insulation
OB16	Riadh	BENNAI	Algeria	Study of the buckling of sandwiches beams
OB17	HEMINE	Jamal	Morocco	Effect of the network density on dynamics of the Goldstone modes in a short-pitch ferroelectric liquid crystal stabilized by an anisotropic polymer network
OB18	ATOURKI	Lahoucine	Morocco	FAPb <sub>1-3</sub> -xBr <sub>x</sub> : Stability, structural and optical properties of solution processed mixed formamidinium lead perovskite thin films
OB19	ABDIA	Rachid	Morocco	HOPPING CONDUCTION BEHAVIOR OF INSULATING n-TYPE CdAs <sub>2</sub> SEMICONDUCTOR
OB20	Omari	Lhaj el Hachemi	Morocco	La and Fe co-doped PbTiO <sub>3</sub> nano-sized ceramics for NTCR thermistor based sensor application
OB21	Ait Ahmed	Youssef	United States	Disorder Effect on the Properties of the Organic Superconductor $\beta$ -(BEDT-TTF) <sub>2</sub> Cu[N(CN) <sub>2</sub> ]Br under the control of cooling-rate
OB22	Ataalla	Mohamed	Egypt	Synthesis and characterization of nano-tungsten oxide doped onto the matrix of speiolite as inorganic clay
OB23	Rania	BENLACHEMI	United States	détermination des paramètres élastique d'un alliages CuAlBe par ultrasons

Oral Session C / Conference Room 2

OC01	Cholakova	Veronika	Bulgaria	CIGS solar cells
OC02	Guesmi	Soltana	Tunisia	Electro-thermal model for improving PV module efficiency by using an air cooling system
OC03	SALIM	RAJEH	Tunisia	Electrical and gas sensing investigations on the sprayed ZnO:Cu thin films
OC04	A R	ANU	India	Varactor Controlled Frequency Tunable Cylindrical Dielectric Resonator Antenna
OC05	<u>afqir</u>	<u>mohamed</u>	<u>Marrakech</u>	<u>Structural and dielectric properties of rare-earth doped SrBi<sub>2</sub>Nb<sub>2</sub>O<sub>9</sub> ceramics</u>
OC06	Kubasov	Ilya	Russian Feder	High Temperature Vibration Sensor Based on Bidomain Lithium Niobate Single Crystal
OC07	Guesmi	Soltana	Tunisia	Electro-thermal model for improving PV module efficiency by using an air cooling system
OC08	Fraczek	Maria Zdanows	Poland	IMPEDANCE SPECTROSCOPY STUDY OF (NH <sub>4</sub> ) <sub>3</sub> H(SeO <sub>4</sub> ) <sub>2</sub> : EVIDENCE OF INCREASE IN LATTICE DISORDER IN THE LOW TEMPERATURE PHASES
OC09	Diagne	Moulaye	Senegal	External quantum efficiency of a solar cell ZnO/CdTe: Effects of excitons by the method of calculating the dielectric function.
OC10	MEDJNOUN	KAHINA	France	Novel structure of (Zn <sub>0.80</sub> Mg <sub>0.20</sub> O/Zn <sub>0.99</sub> B <sub>0.10</sub> O) buffer layer / TCO obtained by combination of sol-gel and Rf-magnetron sputtering for CIGS solar cells applications
OC11	sattela	hanen	Tunisia	electro-optical and dielectric study of the ferroelectric anti-clinical transition of a liquid crystal
OC12	Taouririt	Taki Eddine	Algeria	Effects of high-k dielectric materials on the electrical performance of amorphous indium-tin-zinc-oxide thin film transistor (a-ITZO TFT): an analytical survey
OC13	Drai	Mokhtar	Algeria	Thermal, Vibrational, and Dielectric studies of new synthesized Ionic Liquids, Experimental and Theoretical investigation.
OC14	Amar	Irekti	Algeria	Experimental Study of dielectric properties of composite materials Pozzolan/ DGEBA
OC15	Bourib	fatima Zohra	Algeria	Investigation of the electrical properties of conductive polymers by the DRS and RPE techniques
OC16	Belhouchet	khaled	Algeria	Study of Mechanical and Dielectric Properties of Porcelain and Evaluation of the Effect of Pollution Non-Uniformity on Electric Field.
OC17	afaf	mokhtari	Algeria	The effects of b <sub>2</sub> O <sub>3</sub> addition on the dielectric properties of anorthite prepared from Algerian natural hydroxyapatite
OC18	BELHIMRIA	RAJAE	Morocco	Impedance spectroscopy studies and fractal dimension analysis of carbon/polymer composite materials

Oral Session C / Conference Room 2

OC19	KREIT	Lamyaa	Morocco	Water dipoles polarization in biocomposites based on olive pomace grains
OC20	ARIBOU	NAJOIA	Morocco	Towards the new effect of interphase zone on the dielectric properties of nanocomposites materials
OC21	ELHATIMI	Wafaa	Morocco	Elaboration and study of the electric and dielectric behavior of bio-nano-composite based on Layered double hydroxide investigated by complex impedance spectroscopy
OC22	ZAHRA	RAMZI	Morocco	Optical and Dielectric Investigations on the role of the Bismuth ions in Strontium Phosphate glasses
OC23	MORTADI	Halima	Morocco	Etude des Propriétés électriques et diélectriques des pyrovanadates de cuivre $\gamma$ -Cu <sub>2</sub> V <sub>2</sub> O <sub>7</sub> et $\beta$ -Cu <sub>2</sub> V <sub>2</sub> O <sub>7</sub>

Oral Session D / Conference Room 3

OD01	Bouragba	Fatimazahra	Morocco	Electric and dielectric behavior of carbonates intercalated Co-Al and Ni-Al layered double hydroxides (LDHs) investigated by impedance spectroscopy	O r a l  S e s s i o n  D  /  C o n f e r e n c e  R o o m  3
OD02	Boukheir	Sofia	Morocco	Fractal Model of Dielectric Relaxation of Carbon Nanotubes -Epoxy Resin Composites Studied by Impedance Spectroscopy and Small Angle Neutron Scattering	
OD03	AL ARMOUZI	Naoual	Morocco	Effect of temperatures in electrical and optical properties of CuO thin films	
OD04	BAZINE	Hasnaa	Morocco	A Review of insulating materials in high voltage overhead lines	
OD05	TALBAOUI	Said	Morocco	Phonons density of dielectric materials	
OD06	KIROU	Hassan	Morocco	The study of Structural, Morphological, Optical Properties and impedance spectroscopy of Cu <sub>2</sub> ZnSnS <sub>4</sub> (CZTS) Thin Films	
OD07	Zyane	Adel	Morocco	Impact of matrix viscosity on BaTiO <sub>3</sub> dispersion and dielectric properties of composites	
OD08	CHRAFIH	YOUNES	Morocco	The Non-parabolicity Effect in the presence of the hydrostatic pressure On the intersubband Absorption in GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As Quantum Well Heterostructures	
OD09	Jannane	Tariq	Morocco	Achieving P-type ZnO thin films via sol gel method	
OD10	MANOUA	Mohamed	Morocco	Elaboration of Tin-doped ZnO thin films for ZnO homojunctions and ZnO/Si heterojunctions	
OD11	CHAIK	Mounir	Morocco	Optical and structural properties of rf-sputtered ZnTe thin films by variation of oxygen pressure	
OD12	Nkhaili	Lahcen	Morocco	Structural, optical and electrical characteristics of a ZnO/CdS/CuO:Co hetero-junction films for solar cells applications	
OD13	EL KHOURI	Asmaa	Morocco	Synthesis and characterization of rare earth doped tungstates and molybdates Ni (W,Mo)O <sub>4</sub>	

OD14	Seghir	Imane	Algeria	Electronic and Spectroscopic properties of Pt (II) Schiff base complexes : A DFT/TD-DFT investigation
OD15	EL MADANI	AZIZ	Morocco	Physical and chemical properties of PbS thin films produced by the chemical bath deposition method (CBD)
OD16	Ben zohra	Mouna	Morocco	Hybrid electro-thermal solar system integrate Phase Change Materials
OD17	LABTAINI	Ikram	Morocco	Characterization of the fibrous filter media using in a baghouse phosphate dust collector by scanning electron microscope
OD18	BELBSIR	Hamza	Morocco	Modeling the rheological behavior of phosphate-water slurry
OD19	EDDYA	Mohamed	Morocco	Synthesis and X-ray diffraction studies of new photocatalyst $Zn_{1-x}Pb_xBi_2O_4$ ( $x=0.1, 0.2, 0.3, 0.4, 0.5$ )
OD20	E	Boulama		MECANISME DE TRANSFERT D'ENERGIE ET MESURE DES DUREES DE VIE EXPERIMENTALES DES PRINCIPAUX NIVEAUX EMETTEURS DES IONS $Er^{3+}$ DANS DES CRISTAUX DE TYPE FLUORITE
OD21	Rzaizi	Mourad	Morocco	Gallium concentration effects on electronic properties of $CuIn_{1-x}Ga_xSe_2$ nanowire

Poster Session A

PA01	Avanesyan	Vachagan	Russian Feder	Dielectric Relaxation in Zinc Sulfide Electroluminescent Layers
PA02	Mir	Ali	Algeria	Study Ab Initio of the Effect of A-Site Substitution on the $Fe_{1.12}Te$ System
PA03	Khadidja	Benayed	Algeria	Magnetic properties, and principal calculations study of AB <sub>2</sub> compounds
PA04	Soumia	Boualem	Algeria	Study of the annealing effect in GaN/GaAs Shottky diodes.
PA05	KHADRA	Lamhall	Algeria	LSDA and LSDA+U investigation of electronic and magnetic properties of p-type ZnO by (Co, N) co-doping
PA06	fatma	bencherif	Algeria	Investigation and applications of laser-induced plasma spectroscopy technique
PA07	Hamidane	ouafa	Algeria	First-Principles Investigation of Half –metallic Ferromagnetism $Mn_xCa_{1-x}S$ in the rock-salt phase
PA08	TRIAKI	Mounia	Algeria	PROPERTIES OF NANOCCLAY REINFORCED HDPE/PS NANOCOMPOSITES
PA09	labdelli	abbes	Algeria	Étude de Premier-principes des Propriétés Structurales, Électroniques et Magnétiques des Composés $Cr_{n+1}SiC_n$ ( $n=1,2,3$ )
PA10	BOUCHAREB	Hasna	Algeria	Synthesis, crystal structure and magnetic properties of bis(N,N-dimethylformamide)tetra( $\mu_2$ -thiopheneacetato-O,O')-dicopper(II)

PA11	Bourib	fatima Zohra	Algeria	Investigation of the electrical properties of conductive polymers by the DRS and RPE techniques
PA12	BENZIZIDIA L	FADILA	Algeria	Simulation of the Effect of Charges on Partial Discharges in Solid Insulation used in High Voltage
PA13	Seghir	Imane	Algeria	Electronic and Spectroscopic Properties of new Cu (I) phosphine complexes : a DFT/TD-DFT investigation
PA14	LARBAOUI	Chaima	Algeria	Effets des traitements thermiques sur les paramètres élastiques d'un alliage à mémoire de forme CuZnAl.
PA15	BENLACHEM	Rania	Algeria	DÉTERMINATION DES PARAMÈTRES ÉLASTIQUES D'UN ALLIAGE TERNAIRE CUALBE D'ORIENTATION DIFFERENTES PAR ULTRASONS
PA16	ZAANOUNE	Seyf Allah	Algeria	Study of sulfur-nitrogen hexafluoride mixtures contaminated with copper vapors in high-voltage circuit breakers
PA17	DARANFED	Ouarda	Algeria	Simulation of the diffusion of water molecule in the sensitive layer based of the tetraethoxysilane
PA18	Benmebarek	Sabrina	Algeria	Synthèse et étude structural par RX du complexe « Bis(4-aminobenzenesulfonamide-?N4)- dichloridozinc »
PA19	Benachour	Naima	Algeria	The combined effect of the magnetic field and ammonium chlorides on deposits Zn-Ni Obtained in different conditions.
PA20	Mokhtari	Djihad	Algeria	Theoretical investigation of structural, electronic and thermodynamic of Ti2VAs Heusler compound
PA21	LAHCEN	NKHAILI	Morocco	Electrodeposition of ZnO nanowires with controlled density
PA22	HAILY	EL Mehdi	Morocco	Elaboration of barium titanate based phosphate glasses
PA23	EL AAKIB	Hind	Morocco	Effect of Nickel Doping on Nanostructured Copper oxide thin Films Deposited By RF Sputtering
PA24	EL Bennani	Kaoutar	Morocco	Development of a GIS application Geoportal for the management of the networks of drinking water and Sanitation of Greater Casablanca
PA25	BOUKNAITIR	ILHAM	Morocco	Dielectric properties of nanocomposites thin films based on carbon dots
PA26	SAMIR	Zineb	Morocco	Dielectric behavior based on Multiwall Carbon Nanotubes-Polyester Polymer Composites
PA27	Madiha	ENNACHETE	Morocco	Etude électrochimique de la capacité du caprolactone à chélater le plomb
PA28	CHABBA	Hanae	Morocco	molecular dynamics simulation for aluminum alloys modelization
PA29	NIOUA	Yassine	Morocco	Impedance spectroscopy analysis of reduced graphene oxide/epoxy nanocomposites



PA30	BAQLOUL	El mahjoub	Morocco	Phonons dispersion curves of dielectric materials
PA31	labchir	nabil	Morocco	Self-oriented ferrimagnetic nanowires for coplanar microwave circulators
PA32	Riad	Amine	Morocco	Smart sunflower system integrate suntracker based on smart materials using the thermal effect of radiation
PA33	Welatta	Fatimetou	Morocco	Fabrication and characterization of Copper-Tin-sulfide thin film
PA34	Hsissou	Rachid	Morocco	Elaboration and rheological investigation of Hybrid Nanoglycidyltrihydrazine 4,4,4-tripropoxy tribisphenol A of ethylene(NGHPBAE/MDA/PN) as new composite Crosslinked
PA35	TOUAI RI	Souad	Morocco	Mechatronics analysis to Balance Piezoelectric and Capacitive effects in Smart Materials
PA36	Mohamed	Rbaa	Morocco	Synthesis, Characterization and Electrochemical measurements, DFT and Molecular Dynamic Simulations for Understanding Adsorption of Novel Benzimidazole Derivatives Carrying 8-Hydroxyquinoline
PA37	zakaria	rouifi	Morocco	METHYL 4-AMINO-1-((8-HYDROXYQUINOLIN-5-YL)METHYL)-1H-1,2,3-TRIAZOLE-5-CARBOXYLATE
PA38	OADDI	Rachida	Morocco	Thermal Behaviour of Insulating Material Extracted From Date Palm Trees
PA39	Boulaid	Mohamed	Morocco	Photovoltaic System Energy Yield Monitoring: Experimental Outdoor Analysis
PA40	DERBALI	Sarah	Morocco	The compact metal oxide blocking layer ZnO by Ultrasonic Spray Mist-CVD for Hybrid Perovskite solar cell

Poster Session B

PA41	KHAAISSA	Yassine	Morocco	Fabrication of Cu <sub>2</sub> ZnSnS <sub>4</sub> Thin Films by Ultrasonic Spray Assisted Chemical Vapor Deposition Methods
PA42	JELLAL	Ilyass	Morocco	Effect of deposition temperature on structural and optical properties of ZnO thin films synthesized by the mist chemical vapor deposition (Mist-CVD) method
PA43	EDDYA	Mohammed	Morocco	Synthesis and X-ray diffraction studies of new photocatalyst Zn <sub>1-x</sub> Pb <sub>x</sub> Bi <sub>2</sub> O <sub>4</sub> (x=0.1, 0.2, 0.3, 0.4, 0.5)
PA44	DAOUDI	OTHMANE	Morocco	Synthesis and characterization of CuO thin films deposited by modified SILAR method
PA45	ZAKI	Mohamed Yassi	Morocco	Effect of the combination of trisodium citrate and multiple complexing agents on the properties of electrodeposited CZTS thin films
PA46	RACHID	Idouhli	Morocco	Essential oil of Cumin as a Green corrosion inhibitor in acidic medium
PA47	EI AZZOUZI	Mohamed	Morocco	A Monte Carlo simulation method for simulating electron-gas-solid interactions and its application in cementitious and polymer materials

PA48	EL OUADDI	Hassan	Morocco	Disorder Effect and the Vortex Phase Transition in layered Organic Superconductor $\gamma$ -(BEDT-TTF) <sub>2</sub> Cu[N(CN) <sub>2</sub> ]Br
PA49	KIROU	Hassan	Morocco	The study of Structural, Morphological, Optical Properties and impedance spectroscopy of Cu <sub>2</sub> ZnSnS <sub>4</sub> (CZTS) Thin Films
PA50	MEZIANE	KARIMA	Morocco	Internal stress incidence on the optical energy band gap of Li:ZnO thin films
PA51	EL HAMIDI	ASMAA	Morocco	Investigation of optical properties of undoped ZnO: Sol pH effect
PA52	Zyane	Adel	Morocco	Lignocellulosic phosphorylated fibers: Potentiel use as a dielectric material
PA53	BAHOUM	KAOUTAR	Morocco	The influence of the fluid temperature on the behavior of varied stuffing box packing based on flexible Graphite and woven PTFE fibers
PA54	Hamza	ZAAROUR	Morocco	Synthesis and characterization of orthoferrite powder NdFe <sub>0.5</sub> Cr <sub>0.5</sub> O <sub>3</sub>
PA55	Turutuin	Andrei	Russian Feder	Improved Helmholtz coils setup for the study of multiferroics
PA56	aarich	noura	Morocco	Mapping photovoltaic DC yield in Morocco by interpolation in a geographic information system using simple linear model and instantaneous dynamic simulation program "DiViDyn" for three technologies
PA57	MANOUA	Mohamed	Morocco	Study of Au/ZnO/Si/Al heterojunctions by two-dimensional numerical simulation
PA58	HNAWI	Salma Kaotar	Morocco	Fabrication and characterization of inverted hybrid solar cells based on extracts of Aloe_vera plants
PA59	NKHAILI	LAHCEN	Morocco	Structural, optical and electrical characteristics of a ZnO/CdS/CuO:Co hetero-junction films for solar cells applications
PA60	NACEUR ABC	Cheyema	Morocco	Effect of Plasticizer on lithium based solid polymer electrolytes: from raw materials to DSSC application
PA61	HADDAOUI	SOUMIA	Morocco	Etude du phénomène de colmatage des minerais de phosphate sur les aciers utilisés au niveau de différents procédés post extraction des phosphates.
PA62	MEDKOUR	Majda	Morocco	Local Organizing Committee
PA63	MAALLAH	Rajaa	Morocco	Polymer Electrode Material for Microbial Bioelectrochemical Systems
PA64	Samba Vall	Cheikh	Morocco	Optical and Structural Properties of RF-sputtered ZnS:Cr thin films
PA65	EIYAAGOUBI	Mesbah	Morocco	Electrochemically Deposited Bismuth-Telluride nanowires
PA66	Mohy eddine	khadiri	Morocco	Characterization of passive film obtained by anodization on Ti-Cu(2%) alloy in phosphoric acid

PA67	ELYAAGOUBI	Mesbah	Morocco	Study of Electrodeposited Bismuth-Telluride Thin films
PA68	Mohy Eddine	KHADIRI	Morocco	Study of Electrodeposited Bismuth-selenium and Bismuth ÔÇô tellurium - Selenium Thin films
PA69	EL MAMOUN	Anass	Morocco	Etude géométrique de l'influence microstructurale sur les propriétés effectives des milieux périodiques
PA70	Rabi	Bouchra	Morocco	microstructurale sur les propriétés effectives des milieux périodiques
PA71	EL KAZDIR	M.S.	Morocco	quantum dots in a semiconducting matrix for single-electron transistor applications
PA72	FELLAQUI	K.	Morocco	Room temperature polariton lasing from molecular biology in a dielectric microcavity
PA73	El Kho	M.	Morocco	Band- gap of CuInS <sub>2</sub> /ZnS quantum dots using the Brus equation
Presence	Gargouri	Mohamed	Tunisia	Participation