

Oral communications

Session A

Conference room A

OA1	12.00	Optical and electrical conduction mechanisms of (TEA)₂ Pd₂Cl <i>I. Dakhlaoui, K. Karoui and F. Jomni</i>
OA2	12.15	Effect of Zn doping on structure, and optical properties of CuO nanoparticles synthesized by hydrothermal route <i>F. Ben Nasr, H. Guemazi and S. Guermazi</i>
OA3	12.30	Enhancement of the nonlinear optical rectification in lens-shaped InAs/GaAs core/shell under pressure, temperature and magnetic field effects <i>D. Makhlof, M. Choubani, F. Saidi, H. Maaref and R. Mghaieth</i>
OA4	12.45	Thermally Stimulated Current for Sprayed In₂S₃ thin films <i>B. Bouricha</i>

Conference room B

OB1	12.00	Preparation and characterization of ZnO-SiO₂-TiO₂:Ce/PES hybrid membrane with ZnO-SiO₂-TiO₂:Ce nanoparticles <i>I. Ben Belgacema, P. Loulergue, H. Bouhamed and S. Khemakhem</i>
OB2	12.15	Photocatalytic degradation of organic pollutants by BiFeO₃ nanoparticles under visible irradiation <i>I. Mallek-Zouari, W. Ben Taazayet, H. Maghraoui, N. Hosni, B. Dkhil and N. Thabet-Mliki</i>
OB3	12.30	Preparation of solar/visible-light active TiO₂ photocatalysts with carboxylic acids for the photocatalytic degradation of phenol <i>D. cherni, N. Moussa, M. F. Nsib, K. Ayeb, I. Jaouali and M. Signeretto</i>
OB4	12.45	Study of the interaction between Pseudomonas stutzeri LBR and nanoparticles of titanium dioxide (TiO₂) on the biodegradation of DDT <i>C. Abbes, L. Ben Trad, A. Mansouri and A. Landoulsi</i>

Session B

Conference room A

OA5	17.00	Theoretical investigation of the molecular inclusion process of NO₃, NO₂, CO₂ and N₂ gas into calix[4]arene <i>B. Gassoumi, M. Chaaben, H. Ghalla, A.R. Allouche and R. Ben Chaabane</i>
OA6	17.15	DFT Study of H₂O and NH₃ coordination Capacity at Copper in Cu-SSZ-13 <i>B. Kerkeni, C. Chizallet, D. Berthout, and D. Berthomieu</i>
OA7	17.30	Design of low temperature hybrid TiO₂ -cyanuric acid nanocomposites – application in the photodegradation of organic pollutants in water <i>A. Saud Bin Sadi, R. Khaled AlBilali, N. Abdullah Alomair and H. Kochkar</i>
OA8	17.45	Electrochemical characterization of self-assembled monolayers of functionalized dithiols <i>A. Laroussi, N. Raouafi and V. M. Mirsky</i>
OA9	18.00	Porosity and nano-columnar designer and enhancement of the structural properties of Cu₂ZnSnS₄ thin film elaborated by GLAD (Glancing Angle Deposition) technique: Critical incident angle (60°) <i>A. Jemi, F. Chaffar Akkari, B. Gallas and M. Kanzari</i>
OA10	18.15	Klein tunnelling in deformed dice lattice <i>L. Mandhour, F. Bouhadida and A. Daboussi</i>

Session B

Conference room B

OB5	17.00	Sorption of Reactive Black 5 textile dye using ZnO-Pb nanocomposite: kinetic and isotherm study <i>B. Chamam, R. Ben Dassi, J.P. Méricq, C. Faur M. Heran, L. El Mir and I. Trabelsi</i>
OB6	17.15	Enhanced dielectric properties of poly(vinylidene fluoride) composites filled with CNT and BT <i>A.Salem, B.Fan, F.Jomni, J.Bai and A. Sylvestre</i>
OB7	17.30	Preparation and Characterization of PDC/Li₂CO₃ Nanocomposite Electrolyte for Applications in Intermediate Solid Oxide Fuel Cells <i>A. Midouni</i>
OB8	17.45	All solid-state paper based supercapacitor for energy storage devices with improved capacitance and cycle life <i>A. Chebil and C. Dridi</i>
OB9	18.00	Preparation, characterization, and catalytic performance of lacunary keggin-type Tungstoborate immobilized on titania <i>S. Ayadi, N. Moussa, I. Jaouali and A. Houas</i>
OB10	18.15	Effect of a multistep deposition process on the optical gas sensing properties of NiO sol-gel thin films <i>S. Zargouni, L. Derbali, M. Ouadhour and H. Ezzaouia</i>

Session C

Conference room A

OA11	11.00	Design of an integrated amperometric biosensing platform for multiplexed analysis <i>M. Naccache, M. Ltifi, A. Ben Hassine and N. Raouafi</i>
OA12	11.15	Synthesis and characterization of molecularly imprinted polymers for the selective extraction of hexane metabolite in urine <i>E. Ben Khalifa, A. Meziadi, H. Nehdi, A. Mabrouk and H. Nouagui</i>
OA13	11.30	Determination of the birefringence of nematic liquid crystal with Chanelled Spectrum method <i>A. Alayet, F. Sanaâ, S. Residori, and M. Gharbia</i>
OA14	11.45	Nanocrystalline multifunctional Pr₅Co₁₉ compound: permanent magnet, magnetic refrigeration and hydrogen storage <i>W. Bouzidi, N. Mliki and L. Bessais</i>
OA15	12.00	Sintering temperature effect on the critical behavior in Mn nanoparticles <i>W. Mabrouki, A. Krichene, N. Chniba Boudjada and W. Boujelben</i>
OA16	12.15	Impact of interfacial defect on electronic and transport properties at the FeRh/MgO/FeRh (001) MTJ from first-principles investigations <i>T. Sakhraoui, M. Said and M. Alouani</i>
OA17	12.30	Nanocrystallization effect on magnetic and magnetocaloric properties of SmFe_{9-x}Ga_x <i>T. Bartoli, J. Moscovici and L. Bessais</i>
OA18	12.45	Lasing emission from dye-doped cholesteric liquid crystal <i>L. Saadaoui, G. Petriashvili, M.P. De Santo, R. Hamdi, O. Tahar and R. Barberi</i>

Session C

Conference room B

OB11	11.00	Electroanalytical application of molecular imprinted polymer matrix for dapsona determination in real pharmaceutical samples <i>H. Essousi and H. Barhoumi</i>
OB12	11.15	Molecularly imprinted chitosan nanoparticles: nano-bio-carriers for drug controlled release <i>F. Moncer, N. Adhoum and L. Monser</i>
OB13	11.30	Carbon Nanotubes Supported Au-Ru Nanoparticles with Core-Shell Structure for Glucose Detection with High Resistance against Chloride Poisoning <i>D. Ayed, E. Laubender, M. Souiri, O. Yurchenko, H. Marmouch, G. Urban and A. Othmane</i>
OB14	11.45	Synthesized by aqueous method and optical properties of nanoparticle CdS doped by Ag <i>H. Labiadh, K. Hkiri, M. Zouaoui and M. Ben Salem</i>
OB15	12.00	A deepening in vitro simulation of biomaterials for bone reconstruction based on borosilicate-glasses <i>A. Gharbi, H. Oudadesse, B. Lefeuvre and H. El Feki</i>
OB16	12.15	Enhanced light absorption of solar cells on Germanium with one-dimensional photonic crystal <i>S. Boumediene and S. Mouetsi</i>
OB17	12.30	Molecular Dynamic study of drugs Confinement inside saturated or functionalized carbon nanotubes and their release near POPC membrane <i>A. Mejri, B. Tangour and F. Picaud</i>
OB18	12.45	PAMAM-modified SPCEs for sensitive electrochemical aptasensing of Aflatoxin B1 <i>S. Ben Aissa, G. Catanante, J.Louis Marty and N. Raouafi</i>

Session D

Conference room A

OA19	17.00	Luminescence Enhancing and Photostability of CdS-βME colloidal Nanocrystals via chemical etching under light irradiation <i>N. Bel Haj Mohamed, Z. Zaaboub, N. ben Brahim, M. Haouari and H. Ezzaoui</i>
OA20	17.15	Synthesis and ESR study of the transition ferromagnetic/superparamagnetic in La_{0.8}Sr_{0.2}MnO₃-Based Perovskite Nanoparticles <i>M. Yahya, F. Hosnib and A. H. Hamzaoui</i>
OA21	17.30	Rayleigh scattering measurement of Nematic and columnar liquid crystals bands <i>I. Loubiri and M. Gharbi</i>
OA22	17.45	Mathematical modelling of isolated and auto-assembled InAs/GaAs nanostructures <i>A. Bouazra, S. Abdi-Ben Nasrallah and M. Said</i>
OA23	18.00	2D colloidal II-VI semiconductors: From the visible to the IR <i>S. Ithurria</i>
OA24	18.15	Structural and microstructural characterizations of a new synthesized FeMoNa_{0.5}H_{1.5}O₅ hybrid material <i>T. Aloui, N. Fourati, H. Guerhazi, C. Zerrouki and S. Guerhazi</i>

Session D

Conference room B

OB19	17.00	Modelling of the nanomembrane of the pancreatic β-cell <i>S. Bahlouli, H. Riane and F. Hamdache</i>
OB20	17.15	Activated Carbons from waste biomass hydrothermally Carbonized in milk for CO₂ capture <i>S. Haj Yahia, K. K. Lee, B. Ayed, M. Bagane, N. Hedin and T. L. Church</i>
OB21	17.30	Study of low temperature NH₃-SCR over Mn and Fe modified ZrO₂, TiO₂ and Al₂O₃ catalysts <i>N. Ben Younes, O. Marie and M. Mhamdi</i>
OB22	17.45	Optimization of the removal of Reactive Black 5 using Pb-doped ZnO nanocomposite: response surface methodology <i>R. Ben Dassi, B. Chamam, J.P. Méricq, C. Faur, M. Heran, L. El Mir and I. Trabelsi</i>
OB23	18.00	Study of the modified ZrO₂-CeO₂ catalysts for the wet air oxidation of para-hydroxybenzoic acid <i>I. Belkadhi, M. A. Bouabdellah, L. Ben Hammouda and Z. Ksibi</i>
OB24	18.15	Study of the flow of a gas adsorbed by a microporous solid during the adsorption phenomena <i>N. Benkahla and F. Mhiri</i>

Session E

Conference room A

OA25	09.30	Optimization of the performance of the lead-based perovskite solar cell <i>S. Bouazizi, W. Tlili and A. Omri</i>
OA26	09.45	An ab initio study of the ferroelectric In₂Se₃/graphene heterostructure <i>T. Ayadi, L. Debbichi, M. Badawi, M. Said and S. Lebègue</i>
OA27	10.00	Preparation and characterization of SiO₂/TiO₂ glass doped with CdSe b sol-gel method <i>N. Saad, M. Haouari and H. Ben Ouada</i>
OA28	10.15	Effect of Surface Passivating Ligands on Optical and Electronic Spectra of Semiconductor Nanocrystals <i>S. Nasraoui N. Bel Haj Mohamed, R. Ben Chaabane and A. Allouche</i>
OA29	11.00	Elaboration and characterization of Cu₃SbS₃ thin film along with the degradation of methylene blue <i>N. Bouaniza, N. Hosni and H. Maghraoui-Meherzi</i>
OA30	11.15	Solution flow rate influence on physical properties of copper oxide thin films deposited by chemical spray pyrolysis for photovoltaic application <i>M. Ajili and N. Kamoun Turki</i>
OA31	11.30	Synthesis and annealing of Cu₂MgSnS₄ thin films for photovoltaic applications <i>M. Souli, R. Engazou and N. Kamoun-Turki</i>
OA32	11.45	Studies of porosity, specific surface area and surface functions of Spirulina Platensis grown in Tunisia: experimentally and theoretically using the statistical physics treatment <i>M. Atrous, Y. Ben Torkia and A. Ben Lamine</i>
OA33	12.00	Rheological behaviour of ferrogels based on alginate polymers and bentonite/magnetite composites <i>M. Mekni Abrougui, M. T. Lopez-Lopez, J. D. G. Duran and E. Srasra</i>
OA34	12.15	Optical retardation of developable domains in columnar hexagonal liquid crystal <i>H. Sattela, I. Loubiri and M. Gharbia</i>
OA35	12.30	Visible fluorescence characteristics of Dy³⁺ doped fluorophosphates glasses for laser and white LED applications <i>I. Jlassi and H. Elhouichet</i>
OA36	12.45	Label-free SERS-based aptasensing platform using silicon nanowires for the detection of prostate specific antigen <i>A. Ouhibi, M. Saadaoui, N. Lorrain, M. Guendouz, N. Raouafi and A. Moadhen</i>

Session E

Conference room B

OB25	09.30	Sensitivity Enhancement of Functionalized Multiwalled Carbon Nanotubes for Ethanol Sensor <i>N. Bohli, M. Belkilani, E Llobet and A. Abdelghani</i>
OB26	09.45	Synthesis and characterization of ZnO-clay nanostructured material for photocatalytic application <i>M. Akkari, E. Hawel, A. Ben Haj Amara and R. Chtourou</i>
OB27	10.00	The impact of mixed cation on the structural and optical properties of hybrid perovskite for solar cells <i>S. Derbali, K. Nouneh, A.C. Galca, M. Florea and F.Neațu</i>
OB28	10.15	Low-cost strategy for synthesis of 3D CoFe₂O₄/SS nanoflowers thin films for Supercapacitor device <i>N.Hosni, R. Zarrougui, K. Zehani, H. Ahemd Hamzeoui and H. Maghraoui-Meherzi</i>
OB29	11.00	Synthesis, characterizations and photocatalytic activity of N-, F- and NF-doped ZnO in gas-solid and liquid-solid regimes <i>K. Ayeb, N. Moussa, G. Marci, E. Garcia-Lopez, S. Scire, R. Fiorenza and M. F. Nsib</i>
OB30	11.15	Cobalt substituted lanthanum nano-ferrites: Their synthesis, characterization and application in liquid phase oxidation of styrene <i>I. Jaouali, N. Moussa, S. Ayadi, M.A. Centeno, M.F. Ncib and A. Houas</i>
OB31	11.30	Time deposition effect on the sprayed In₂S₃ sensitive layer growth for some reducing gas detection <i>R. Souissi, N. Bouguila and A. Labidi</i>
OB32	11.45	Effect of NaF substitution for Na₂O on the structural and electrical <i>K. Hadj Sadok, M. Haouari and H. Ben Ouada</i>
OB33	12.00	Structural, electrical, dielectric and optical properties of sol-gel prepared PrCrO₃ orthochromite <i>R. Mguedla, A. Ben Jazia Kharrat, N. Chniba-Boudjada, K. Khirouni and W. Boujelben</i>
OB34	12.15	Effects of silver nanoparticles on the enhancement of up conversion and infrared emission in Er³⁺/Yb³⁺ co-doped phosphate glasses <i>I.Soltani, S. Hraeich, K. Horchani-Naifer and M. Férid</i>
OB35	12.30	Green Synthesis of gold nanoparticles and their applications for environment and foodsafety <i>S. Jebril, C. Dridi, J. M. Palacios-Santander and L. M. Cubillara-Aguilera</i>