

Posters

Poster session I

Saturday 27 April 2019

15.50 - 17.00

P1: Microstructure characterization of nanocrystalline Ti_{0.7}W_{0.3}C prepared by mechanical alloying and Spark plasma sintering; A.Karouia, C.Slama, F.Schoenstein, M.Abdellaoui, N.Jouini

P2: Effect of synthesis route on magnetic and magnetocaloric properties of La_{0.55}Pr_{0.1}Sr_{0.35}Mn_{0.8}Ti_{0.2}O₃ perovskite; A.Guedri, A.Omri, Abdesslem Dhahri, E.K.Hlil

P3: Influence of superplasticizer doped by Nano-silica on the rheological and mechanical properties of cement mortars; Abdelhakim Daoui, Brahim Safi and Abdellatif Zerizer

P4: Nucleation and growth of biogenic silver nanoparticles under electromagnetic field; Bochra Belhaj Abdallah, Landoulsi Ahmed and Chatti Abdelwaheb

P5: Hydrothermal synthesis of chalcostibite nanoflowers towards visible light photocatalytic activity; Adel Chihi, Brahim Bessais

P6: Eco-friendly modification of Polyethersulfone membranes by bio-sourced derived aryl diazonium grafting; Adel Keraani, Murielle Rabiller-Baudry, Anthony Szymczyk, Cédric Fischmeister, Maroua Saadaoui and Noureddine Raouafi

P7: Investigation of structural properties in a nanobioceramic (α -Al₂O₃); Adel Saoudi, Mamoun Fellah, Naouel Hezil, Khamouli Farida and Ali Lahouel

P8: LARGE AREA CVD GRAPHENE GROWTH FOR GAS SENSORS; A. Dammak and F. Raouafi, A. Madouri, D. Dicaprio, A. Taleb, M. Seydou

P9: Electrical and optical characterization of silicon nanowires for photovoltaic applications; Ahlem Rouis, Neila Hizem, Mohamed Hsan and Adel kalboussi

P10: Electric and dielectric properties of Pr_{0.75}Bi_{0.05}Sr_{0.2-x}Ba_xMnO₃ (x=0; 0.1) perovskite manganites under AC applied electric field; A. Ben Jazia Kharrat, K. Khirouni and W. Boujelben

P11: Physical properties of HoCrO₃ orthochromite compound prepared via sol-gel process; A. Ben Jazia Kharrat, R. Mguedla, N. Chniba-Boudjada, K. Khirouni and W. Boujelben

P12: Performances of P3OT/CdSe hybrid bulk heterojunction photovoltaic cells; Aida Benchaabane, Ziad benhamed, Mohamed Aberahmane Senhoury, Habib Bouchriha

P13: From calixarenes to hybrid materials; Amel Ben Othman and Fadhila Ayari

P14: New hybrid material at the limit of organic and inorganic for environmental applications; Amel Ben Othman and Fadhila Ayari

P15: Design of e-bioplatform for the detection of piRNAs with nanoparticles-modified electrodes; Amira BEN HASSINE, Rihab SAHLI and Noureddine RAOUAFI

P16: Monolayer and multilayer adsorption of pharmaceuticals on activated carbon: Application of Advanced Statistical Physics Models; Amira Yazidi, Lotfi Sellaoui, Guilherme L. Dotto, Adrián Bonilla-Petriciolet, Andressa Cristiana Fröhlich, Abdelmottaleb Ben Lamine

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| P17: Bacterial adhesion and inactivation on Cu ₂ O decorated Ta ₂ O ₅ -nanotubes: Effect of the nanotubes geometry on the bio-response; Anouar Hajjaji, Ahsraf Ourefelli, Khaled Trabelsi Brahim Bessais and Sami Rtimi |
| P18: Effect of sulfurization on the optical properties of Cu ₂ Zn _x Fe _{1-x} SnS ₄ thin films deposited by vacuum evaporation method; Asma Hannachi, Nawfel Khemiri and Mounir Kanzari |
| P19: A biosensing platform using anti-chrysothrips polyclonal for fish health immunotracing; Wael Bellila, Abdelmoneim Mars, Sonia Fekih-Zaghib, Monia El Bour, Nouredine Raouafi & Balkiss Bouhaouala-Zahar |
| P20: Influence of temperature on giant magnetoresistance in Co/Cu/Co trilayers; B. Elsafi, F. trigui |
| P21: Properties of transition metal doped-titania electrodes: Impact on efficiency of amorphous and nanocrystalline dye-sensitized solar cells; B. Yacoubi, L. Samet, J. Bennaceur, A. Lamouchi, R. Chtourou |
| P22: Microwave irradiation of Polymers Laponite XLG bionanocomposites films; Nadia Bouguettaya, Sadia Radji and Djamel Aliouche |
| P23: Change in mechanical properties from a hot isostatic pressing of α -Al ₂ O ₃ ceramics at different times for total hip arthroplasty (THA); Bouzid Hannachi, Mamoun Fellah, Naouel Hezil, assala Omar, Fethia bouakssa, Stephania Kossman, Alberto Mengias, Alex Montagne, Alain Iost |
| P24: Rheological and mechanical behavior of metallurgical cements based on nano-silica combined with blast furnace slag; Brahim Safi, Khaled Bouali, Mohammed Saidi |
| P25: Nanoporous AISBA-15 catalysed biologically active chalcones - A green route; Elamathi Palani, Chandrasekar Govindasamy, Balamurali MM |
| P26: Co-precipitation preparation of ZnO: An efficient catalyst for degradation studies of textile Dye under UV irradiation; Chemingui Hajer, Mehmet Konyar, Missaoui Takwa, Smiri Moez, Cengiz Yatmaz, Hafiane Amor |
| P27: Influence of zirconia addition in TiO ₂ aerogel support on the physicochemical and catalytic properties of supported vanadia in the chlorobenzene oxidation; Chiraz Gannoun, Eric M. Gaigneaux, Abdelhamid Ghorbel |
| P28: Fabrication of α -Fe ₂ O ₃ thin films by spray pyrolysis and tuning the physical parameters for conductance ethanol gas sensing; Jildi Dhaou, A. Labidi |
| P29: Voltammetric determination of BPA in water and milk; Dhouha Jemmel, Chérif Dridi, Chadlia Mchiri, Habib Nasri, Najla M. Nooredeen, Mohammed N. Abbas, Eithne Dempsey |
| P30: Structural and physical properties of the transparent conducting oxide CuGa _{1-x} (Mg,Ca) _x O ₂ ; Fatma Jlaiel, Mongi Amami and Ahmed Hichem Hamzaoui |
| P31: A new Inorganic - Organic hybrid compound : Synthesis, structural and vibrational study of (CH ₄ N ₅) ₂ SiF ₆ ; Braiek Faycel & Mohsen Graia |
| P32: Investigation of Milling Times on Ti-6Al-4Fe Alloy Microstructure and Properties; Fouzia HAMMADI, Mamoun FELLAH, Naouel HEZIL, Mohammed Zine TOUHAMI, Mohammed ABDUL SAMAD, Alex MONTAGNE, Stephania KOSMAN, Alberto MEGIAS, Alain IOST, Alain LARGETEAU, Mythili PRAKASAM |
| P33: Study of the effectiveness of Nanosilica-based on superplasticizer to produce a fiber reinforced high performance concrete; Hamza Mechakra, Lynda Kheddache, Kahina Chahour and Brahim Safi |
| P34: Impedance spectroscopy of CuFeO ₂ thin films elaborated by DC magnetron Sputtering; Hanen Ben Jbara and Mounir Kanzari |
| P35: Antimicrobial effects of biogenic iron nanoparticles derived from <i>Olea europaea</i> leaf extract against multi-drug resistant bacteria; Sellami Hanen, Trabelsi Ismail and Chatti Abdelwaheb |

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| P36: Encapsulation of anticancer drug doxorubicin inside dendritic macromolecular cavities: first-principles benchmarks; Besrou Hatem, Roberto Linguerri , Majdi Hochlaf and Bahoueddine Tangour |
| P37: Exploiting complex formation between polysaccharides and protein microgels to influence particle stabilization of W/W emulsions; Hela khemissi , Helen Bassani, , Adel Aschi, Isabelle Capron, Lazhar Benyahia, and Taco Nicolai |
| P38: Assessment of the heterogeneity of alumina powder treated at high temperatures; Naouel Hezil, Mamoun Fellah , Alex Montagne, Amel Zairi, Mohamed Zine Touhami, Alain Iost |
| P39: Alkali poisoning of Fe-Cu-ZSM-5 catalyst for the selective catalytic reduction of NO with NH ₃ ; Houda Jouini, Imène Mejri, Mourad Mhamdi, Teresa Blasco and Gérard Delahay |
| P40: Photocatalytic degradation of 5-fluorouracil by diatomite supported titanium dioxide under UV-A irradiation; Houria Djedjai, Rafik Benrabaa, Bertrand Gombert, Roland Kossonou N'guettia |
| P41: Elaboration and characterization of ZnS thin film; IMEN BARKOUTI, JALEL WERFELLI, HATEM SAIIDI |
| P42: Quantitative hair analysis by the LIBS technique; I. CHERNI, S. HAMZAOU, and N. JAIDANE |
| P43: Evaluation of properties and structural transitions of Poly-L-lysine: effects of pH and temperature; Imen Naassaoui, Adel Aschi |
| P44: Nb-modified Ce/Ti oxide catalyst for the selective catalytic reduction of NO with NH ₃ at low temperature; J. Mosrati, I. Mejri , H. Atia, M. Mhamdi, U. Armbruster, S. Wohrab^b, Z. Ksibi |
| P45: Synthesis and characterization of NiCo ₂ O ₄ spinel and its photocatalytic activity toward Congo red and Cristal violet under solar light irradiation; Karima Rouibah, Fatma Zohra Akika, Messaoud Benamira, Ibtiassam Bouchelita and Nada Mohamedi |
| P46: Formation and characterization of chitosan-protein particles with fractal whey protein aggregates; Khouloud Fekih Ahmed, Adel Aschi and Taco Nicolai |
| P47: Microstructural and nanoindentation properties of the mechanically alloyed Ti ₈₀ Ni ₂₀ powders; L. Dekhil, S. Louidi, M. Bououdina, M. Fellah |
| P48: Structural and optical characterization of silicon nanowires / P3HT conjugated polymer; L. JERBI, M.RAHMENI, H. AJLANI, A.MEFTAH |
| P49: Synthesis and Bio-corrosion behavior of nano structured Ti-15Mo alloy for biomedical applications in various simulated body fluid; Mamoun Fellah, Naouel Hezil, Mohammed Abdul samad, Alex Montagne, Stephania Kosman, Alberto Megias, Alain Iost, Alain Largeteau, Mythili Prakasam |
| P50: Structural properties and relative stability of pure and sodium doped helium clusters via DFT calculations; Maha Laajimi, Houcine Ghalla |
| P51: Biotribocorrosion behaviour of newly developed nanostructured near β-types Titanium based Alloys for Biomedical Applications; Mamoun Fellah, Naouel Hezil, Mohammed Abdul samad, Alex Montagne, Stephania Kosman, Alberto Megias, Alain Iost, Aleksei Obrosof, Sabine Weiß |
| P52: An aptamer/benzoquinone gold nanoparticles-nanoarchitected electrode for the detection of interleukin-6 low levels in human sera; Mohamed Mastouri, Azza Habel, Rihab Sahli, Bisma Loueslati & Nouredine Raouafi |
| P53: An E-DNA Sensing Platform to Detect Single Nucleotide Polymorphism in IL-6 Gene Using Restriction Endonuclease; Maroua Meftah, Meriem Hadj Ahmed, Amal Rabti, Balkiss Bouhaouala-Zahar, Bisma Yacoubi-Loueslati, Nouredine Raouafi |

Poster session II

Sunday 28 April 2019

16.00 - 17.00

P54: Study of The Free Vibration Response of Functionally Graded Nano-Plate Using Refined Four Variable Model; **Merdaci Slimane, Hellal Hadjira, Boutaleb Sabrina and Beldjelili Youcef**

P55: Structural, Microstructural and magnetoelectrical Studies of $\text{La}_{0.7}\text{Ba}_{0.2}\text{Gd}_{0.1}\text{MnO}_3$ compound prepared by solid state reaction route; **Faiza Meriche, Nabil Mahamdioua, Fatih Denbri, Nevin Soylu, Sevgi Polat Altintas, Ahmet Varilci and Cabir Terzioglu**

P56: Properties and behavior of Ni-Cr nanomaterial layer doped TiO_2 nanoparticles into highly corrosive medium : EIS modeling study; **Mariem OTHMAN, Wafa SASSI, Jean-Yves HIHN, Patrice BERCOT, El-Mustafa REZRAZI**

P57: Effect of additives on the properties of electrodeposited CZTS thin films; **M.Y. ZAKI, K. NOUNEH, M. EBN TOUHAMI, A.C. GALCA, M. ENCULESCU, M. BAIBARAC, L. PINTILIE**

P58: Physicochemical characterization of TiO_2 nanotubes/graphene oxide nanocomposite; **Marwa Hamandi, Mohamed Triki Nuhad Abdullah Alomair and Hafedh Kochkar**

P59: Effect of capped nanocrystals on the performance of hybrid P3HT: CdSe photovoltaic cells; **Mohsen Elain Hajlaoui, Nessrine Hnainia, Aida Benchaabane and Radhouan Chtourou**

P60: Thermodynamic Characterization of thin water films adsorbed in zeolithe model MCM-41, montmorillonite SWy-Hg and on MgO, NaCl, ZnO and graphite; **S. Missaoui ; M.Trabelsi; J.P.Coulomb**

P61: Effect of surfactant structure on charge storage properties in Co_3O_4 -based electrodes; **Moomen Marzouki, Ramzi Zarrougui, Ouassim Ghodbane**

P62: Phase transition and structure transition in columnar liquid crystals; **Mouhamed GHARBIA**

P63: An enzyme-free hydrogen peroxide sensor for evaluation of probiotic potential of *Enterococcus faecium*; **Mourad Braik, Lucian-Gabriel Zamfir, Lucian Rotariu, Carmen Curutiu, Mariana Carmen Chifiriuc, Mounir Ben Ali, Camelia Bala**

P64: A-site Cesium doping effect on the structure, microstructure and electrical properties of $\text{La}_{1.4}\text{Ca}_{1.6}\text{Mn}_2\text{O}_7$ compound prepared at 1150°C and 1400°C; **N. Mahamdioua, S.P. Altintas, A. Varilci and C. Terzioglu**

P65: Toward the design of nanomaterials-based sensing E-bioplatform for nodavirus detection to assess fish health status in fish farms; **Fatma Amdouni, Nadia Chérif, Marwa Mefteh, Ayoub Ksouri, Balkiss Bouhaouala-Zahar and Noureddine Raouafi**

P66: NANOCOMPOSITE MATERIALS BASED ON ALGINATE AND MODIFIED KAOLINITE CLAY; **Naima AISSI, Djamel ALIOUCHE, Sadia RADJI**

P67: Structural and optical properties of Cu_3SbS_3 nanocrystals: photocatalytic activity test; **Najwa Bouaniza and Hager Maghraoui-Meherzi**

P68: Synthesis, X-Ray crystal structure and highly non-linear optical properties of inorganic-organic hybrid Materials: 4,4'-bipyridinium dinitrate single crystal; **Nasreddine Ennaceur, Rokaya Henchiri, Bouteina Jalel, and Isabelle Ledoux-Rak**

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| P69: CO ₂ adsorption capacities of natural and activated clay; Nesrine Chouikhi, Sabrine Besghaier, Mohamed Chlendi and Mohamed Bagane |
| P70: Synthesis and characterization of nanoparticle xerogel zirconia adsorbent for fast removal of fluoride from naturel water; Nesrine. Kamoun, Hamza. Elfil, Anne. Sophie. Mamède, Alain Rives and Mohamed. Kadri. Younes |
| P71: Mechanical Characteristics of Matrix Nanocomposites (Thermoplastic Starch / high impact polystyrene); Nour el Houda AOUADI, Melia GUESSOUM, Abdelhak HELLATI |
| P72: Modeling and optimisation of the PCDTBT/PC ₇₀ BM organic solar cell; N.H. Bekhechi, S.Bahlouli, H. Riane, F. Hamdache |
| P73: Simultaneous and selective measurement of uric acid and dopamine at a glassy carbon electrode modified with a new Cu-phthalocyanine-acrylate polymer and multiwalled carbon nanotubes; Olfa karker, Lassaad Barhoumi, Mohammed Nooredeen Abbas, Mounir Ben Ali |
| P74: Density functional theories study of the non covalent interactions in 1-Phenylpiperazine-1,4-dium bis(hydrogen sulfate): Molecular Structure, NBO, AIM and RDG analyses; Olfa NOUREDDINE, Sofian GATFAOUI, Houda MAROUANI, Nouredine ISSAOUI |
| P75: Optical characterization of ZnO, ZnSe and ZnSe/ZnO heterostructure; Rachida Douzi ^a and Abdelaziz Meftah ^a |
| P76: Dry reforming of methane over nanostructures derived from nickel-aluminium layered double hydroxide; Rafik Benrabaa, Nawal Fodil Cherif, Djahida Lerari, Redouane Chebout, Khaldoun Bachari, Annick Rubbens, Rose-Noëlle-Vannier and Axel Löfberg |
| P77: Catalytic evaluation in total oxidation of ethanol over nickel-iron spinel catalysts; Rafik Benrabaa, Amel Benadda, Yasmina Hammiche-Bellal, Martine Frère-Trentesaux, Annick Rubbens, Rose-Noëlle Vannier, Axel Löfberg |
| P78: SCR of NO with CH ₄ over Co/SSZ-13 catalyst modified with lanthanides; Rania Charrad, Faouzi Ayari, Hanna E. Solt, Ferenc Lónyi, Mourad Mhamdi, József Valyon, Zouhaier Ksibi, |
| P79: Deep tooth analysis and study of the abundance variations of some minerals by LIBS (Laser Induced Breakdown Spectroscopy); Rihem Nouir, Sami Hamzaoui and Najem eddine Jaidane |
| P80: Dynamics of the free and localized excitons in transition metal dichalcogenidesTMDs; Sabrine Ayari, and Sihem Jaziri |
| P81: Adsorption of pesticides on clay and industrial adsorbents; Sabrine Besghaier, Nesrine Chouikhi, Mohamed Chlendi and Mohamed Bagane |
| P82: Effect of photonic crystals to absorb light in photovoltaic cells on silicon; Boumediene SADOUN, Souheil MOUETSI |
| P83: Solar-pumped Neodymium-nanoparticles fiber-lasers; Said MEHELLOU, Nouredine HAMROUNI and Ferhat REHOUMA |
| P84: Electroplating of nanocomposite alloy based Ni-Cr in order to improve the surface aspect of a porous aeronautic galvanized steel; Salma BAHAR, Wafa SASSI, Jean-Yves HIHN, Patrice BERCOT, El-Mustafa REZRAZI |
| P85: Activated Carbons prepared by hydrothermal carbonization from fibrous biomass used as adsorbents for CO ₂ ; Salwa Haj Yahia, Kian Keat Lee, Brahim Ayed, Mohamed Bagane, Niklas Hedin, Tamara L. Church |
| P86: Development and characterization of activated carbon from orange peels as potential adsorbents for emerging organic contaminants; Sami Guiza, Salwa Hajyahia, Franck Launay, Mohamed Bagane |

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| P87: Silver Electrodeposition from non-fluorinated N-butyl-pyridinium dicyanamide ionic liquid; Rahali Sarah, Ramzi Zarrougui, Ouassim Ghodbane |
| P88: Ammoxidation of light hydrocarbons (C1 and C2) catalysed by modified microporous and mesoporous material containing transition metals; Sarra Abdi, Mourad Mhamdi, Zouhaier Ksibi |
| P89: Effect of the annealing temperature on the physical properties of cobalt oxide sol-gel thin films; Sarra Zargouni, Seif El Whibi, Mouna Ouadhour, Hatem Ezzaouia |
| P90: Mechanism of Olefin Hydrogenation Catalyzed by RuH(PCy ₃) ₂ (CO)Cl Complexes : A DFT Study; Sofiene Achour, Mahamadou Seydou, François Maurel, Bahoueddine Tangour |
| P91: Synthesis of Cu ₂ ZnSnS ₄ nanocrystals by calcination process; Ahmadi Souha, Khemiri Naoufel and Kanzari Mounir |
| P92: Investigation of structural and magnetic properties of La _{0.5-x} Ho _x Ca _{0.5} MnO ₃ (0≤x≤0.15) manganites; Souha Dhieb, Akram Krichene, Nacera Chniba Boudjada and Wahiba Boujelben |
| P93: Measurement of the birefringence in columnar liquid cristal; Takali Dalel, Sattela Hanen |
| P94: Configuration of a Ring LASER with Erbium Doped Fiber; DJEMAI Takidine, CHADI Zakaria and SENOUCI Dhiaelhak |
| P95: Physiological responses of fenugreek (<i>Trigonella foenum graecum L.</i>) seedlings and plants treated with Nanosized titanium dioxide; Takwa Missaoui, Moêz Smiri, Hajer Chemingui, Amor Hafiane |
| P96: Room temperature ethanol sensor based on porphyrin thin films; Tarek Sekrafi, Brahim Bouricha, Zouhour Denden, Habib Nasri, Chérif Dridi |
| P97: A theoretically study on the optical properties of ZnSe/ZnS core-shell quantum dot; Tasnim Brahim |
| P98: Multiferroics based on bismuth ferrites; Hydrothermal synthesis and structural, morphological and magnetic study; Wael BEN TAAZAYET, Ikbel MALLEK ZOUARI, Wassim BOUZIDI, Ibrahim DKHIL and Najeh THABET MLIKI |
| P99: Influence of temperature on structure and properties of complex formed by Ovalbumin and strong polyanion PSSNa mixture; Wafa Feddaoui, Adel Aschi, Houda Bey, Tahar Othman |
| P100: Structural, Optical Properties and Photocatalytic Activity of Bismuth Ferrite Thin Films; Wafa Amdouni and Hager Maghraoui-Meherzi |
| P101: Cobalt and iron based spinel oxides as catalysts for the degradation of methylene blue in aqueous medium; Yasmina Hammiche-Bellal, Nabila Zouaoui-Mahzoul, Amar Djadoun, Rafik Benrabaa |
| P102: Surface modification of TiO ₂ by copper nanoparticles induced via radiolysis: photocatalytic application; Yosra Amraoui, Lolwa Samet, Odile Stéphan, Faouzi Hosni |
| P103: Raman spectroscopy study of Graphene / HfO ₂ / Graphene and HfO ₂ / Graphene/HfO ₂ heterostructures; Yosra Ben Maad, Mehrez Oueslati, Hosni Ajlani, Ali Madouri, Abdelaziz Meftah |
| P104: Modélisation du polymère (SeNSN) _x (x=1,2,3,4,5)- conductivité et supraconductivité au niveau DFT; K.GADOUCHE, R.YACEF, M.REKHIS |
| P105: Morphological and Mechanical Characterization of Epoxy-SiO ₂ based Nanocomposites; Said Grairia, Nourredine Arabi, Adel Saudi |
| P106: Intercalation of Salicylic Acid into layered double hydroxides for a Controlled Release Formulation; Khaled Hosni, Manel Haraketi, Ezzeddine Srasra |
| P107: ZnO/TiO ₂ Layered Nanostructures as Anti-Corrosion Coating for SS 304; S. Boukerche, M.Bououdina, F. Bensouici, A. Himour, and S. Ouchenane |