



INTERNATIONAL CONFERENCE ON CIVIL ENGINEERING AND MATERIALS

SCIENTIFIC PROGRAM



May 11-12, 2017
Al Hoceima - Morocco



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Pr. Khadija HABOUBI (Vice - Director, ENSAH)

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Mohamed Salahdine ELYOUBI Director of National School of Applied Sciences – Al Hoceima.
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S. DAHRAOUI	ALOMRANE- Al Hoceima	M.KODAD	ENCG-Dakhla

GENERAL PROGRAM OF THE ICCEM'2017

Wednesday, May 10, 2017

15:30 - 18:30 Registration (National School of Applied Sciences, Al Hoceima, ENSAH)

Thursday, May 11, 2017

08:00 - 09:00 Welcome and Registration (National School of Applied Sciences, Al Hoceima, ENSAH)

09:00 - 09:40 **Opening Ceremony ICCEM'17**
Prof. Mohamed Benkaddour : President of the Mohammed First University, Oujda
Prof. Mohamed Salahdine ELYOUBI: Director of the National School of Applied Sciences, Al Hoceima.
Prof. Yassine ZARHLOULE : Director of High School of Technology d'Oujda
Prof. Khadija HABOUBI : Chair of the ICCEM'2017 conference

09:40 - 10:50 **Plenary Conference 1**
Civil Engineering: can it be also about Sustainable cities?
Prof. Hab Jiří Jaromír Klemeš
Plenary Conference 2
Nature at the Service of Eco-Materials for Sustainable Construction
Prof. Abdellatif IMAD

10:50 - 11:25 Coffee break

11:25 - 13:00 **First session:** Composite and Concret Materials
Second session: Materials Engeneering and Corosion
Third session: Geotechnical, Fluid and Soil Mecanics
Fourth session: Energy and Environemental Engeneering

13:00 - 14:00 Lunch

14:00 - 15:15 **Plenary Conference 3**
New methodology to obtainslope stability analysis in dams
Prof. Emilio Ramírez Juidías
Plenary Conference 4
Effects of Ion Implantation Doping Accompanying Heat Treatment on the Electrical Properties for Prestine and Poly(acrylonitrile)
Prof. Shehdeh Jodeh

15:15 - 16:50 **First session:** Composite and Concret Materials
Second session: Materials Engeneering and Corosion
Third session: Geotechnical, Fluid and Soil Mecanics
Fourth session: Energy and Environemental Engeneering

16:50 - 18:00 Coffee break & Poster Session 1

Friday, May12, 2017

08:30 – 09:05	Plenary Conference 5 Sustainability and building materials Prof. Francisco Mata Cabrera
09:05 – 10:45	First session: Composite and Concret Materials Second session: Materials Engeneering and Corosion Third session: Geotechnical, Fluid and Soil Mecanics Fourth session: Energy and Environemental Engeneering
10:45 – 11:05	Coffee break
11:05 – 12:45	First session: Composite and Concret Materials Second session: Materials Engeneering and Corosion Third session: Geotechnical, Fluid and Soil Mecanics Fourth session: Energy and Environemental Engeneering
12:45 – 14:00	Lunch
15:00 – 15:35	Plenary Conference 6 Nanometer-Sized Materials As An Useful Tool For Sample Preparation In Analytical Applications Prof. MOHAMMED ZOUGAGH
15:35 – 17:15	First session: Composite and Concret Materials Second session: Materials Engeneering and Corosion Third session: Materials Engeneering and Corosion Fourth session: Energy and Environemental Engeneering
17:15 – 17:40	Coffee break & Poster Session 2
17:40 – 18:00	Round table meeting
18:00	CLOSING CEREMONY & VISIT TO AL HOCEIMA CITY

Detailed Program of the ICCEM 2017 Conference

Wednesday, May10, 2017	
15:30 - 18:30	Registration
Thursday, May 11, 2017	
08:00 - 09:00	Welcome and Registration
09:00 - 09:40	<p style="text-align: center;">Opening Ceremony ICCEM'17</p> <p style="text-align: center;">Prof. Mohamed BENKADDOUR President of the Mohammed First University, Oujda</p> <p style="text-align: center;">Prof. Mohamed Salahdine ELYOUBI Director of the National School of Applied Sciences, Al Hoceima</p> <p style="text-align: center;">Prof. Yassine ZARHLOULE Director of High School of Technology d'Oujda</p> <p style="text-align: center;">Prof. Khadija HABOUBI Chair of the ICCEM'2017 conference</p>
09:40 - 10:50	<p style="text-align: center;">Plenary Conference 1: Prof. Hab Jiří Jaromír Klemeš (Czech Republic) Civil Engineering: can it be also about Sustainable cities?</p> <p style="text-align: center;">Plenary Conference 2: Prof. Abdellatif IMAD (France) Nature at the Service of Eco-Materials for Sustainable Construction</p> <p style="text-align: center;">Chairmen: Prof. B. HAMMOUTI / Prof. M.EBNTOUHAMI</p>
10:50 – 11:25	Coffee break
	FIRST SESSION: COMPOSITE AND CONCRET MATERIALS
	Room 1
	Chair: Prof. A.KHALED / Prof. M. DRIOUICH
11:25 – 13:00	<p>OP1. ID200: L. Ikharrazne. Bending Analysis of Skew Thin Plates with Variable Thickness</p> <p>OP2. ID.105: A. kerkour-el miad, A. Nougouai, K. Haboubi. Effect of the shape of the inclusion and the viscoplastic parameter on the evolution of isotropic and kinematic hardening of metallic materials under cyclic loadings TC</p> <p>OP3. ID.122: R. Kouddane, E. Boulhafa, H. Ouadfel. Self-Consistent Approach in Elasto-Viscoplasticity of Heterogeneous Materials</p> <p>OP4. ID321: a. Nasser, a. Castel, m. Jabri. Influence of steel-concrete interface condition on passive corrosion rate</p> <p>OP5. ID58: S. SAIR, O. OUSHABI. O. TANANE, Y. ABBOUD, A. EL BOUARI. Elaboration of a composite material based on polyurethane reinforced with alfa fibers</p> <p>OP6. ID89: R. Rachidi, B. Elkihel, F. Delaunois, V. Vitry, D. Deschuyteneer. Comparative Study of the Properties of WC Reinforced Ni-base Alloy Coatings Produced by Flame Spraying and by Laser Cladding</p>

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| | <p>OP7. ID102: Dj.Boukhelkhal, M.Guendouz, O. Boukendakdji, S. Kenai, E. H. Kadri. Beneficial effect of natural and industrial mineral admixtures in the production of SCC cured at different temperatures</p> <p>OP8. ID137: R. Moussaoui, S. EL Moudni EL Alami, H. Aouraghe, A. Abouloula. Characterization of the slag of zellidja of Touissit with a view to use as substituents for natural aggregates of civil engineering</p> <p>OP9. ID192: S. Naamane, Z. Rais, M. Taleb, N.H. Mtarfi, F.Z. Bouaich. Leachability of cement mortars containing sewage sludge ash</p> <p>OP10.ID209: NAOUAOUI Khaoula, CHERRADI Toufiq, BOUYAHYAOUI Azzeddine. Development of recycled aggregates in concrete implementation: Laboratory testing based on a review of the literature and the analysis of research's results</p> |
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	<p style="text-align: center;">SECONDESSION: MATERIALS ENGINEERING AND COROSION Room 2</p> <p>Chair: Prof. R. TOUZANI / Prof. M. ZERFAOUI</p> <p>OP11.ID116: T. Mrabti, Z. Labdouti, O. El Abouti, E.H. El Boudouti and F. Fethi. Transmission Gaps and Fano Resonances in Aharonov-Bohm Connected Mesoscopic Loops</p> <p>OP12.ID361: B. Gourja, M. Tridane, S. Belaouad. Chemical preparation, crystallographic characterization and investigation of ferroelectric properties of $TiCaDy(PO_4)_2$ and $TiCaNd(PO_4)_2$</p> <p>OP13.ID1: Elhachmia Ech-chihbi, R. Salim, H. Oudda, F. El Hajjaji, M. Taleb. An electrochemical and theoretical evaluation of new Imidazopyrimidine derivative as a corrosion inhibitor for carbon steel in HCl solutions</p> <p>OP14.ID2: Rajae Salim, E. Ech-chihbi, H. Oudda F. El-Hajjaji and M. Taleb. Inhibition effect of new imidazopyridine compounds on C38 in hydrochloric acid solution 1M</p> <p>OP15.ID8: A. Bouoidina, M. Chaouch, M. Taleb, A. Lahkimi, F. El-Hajjaji. Theoretical and experimental investigation of the essential oil of Fenouil bulb as inhibitor for mild steel corrosion in hydrochloric acid medium</p> <p>OP16.ID40: M. Sikine, Y. Kandri Rodi, F. Ouazzani Chahdi, H. Elmsellem, M. Belghiti, Y. Ouzidan, N. K. Sebbar, E. M. Essassi and B. Hammouti. CORROSION INHIBITION OF MILD STEEL IN HYDROCHLORIC ACID SOLUTION BY: 1H-benzo[b] [1,4]diazepine-2,4(3H,5H)-dione and 1,5-di(prop-2-ynyl)-benzodiazepine-2,4-dione.</p> <p>OP17.ID53: Ely CheikhMoine, Adnane El Hamidi, Mohamed Halim & Said Arsalane. Thermal oxidation study of Moroccan Timahdit oil shales: A new approach to non-isothermal kinetics</p> <p>OP18.ID60: M. El wazna, A. Gounni, A. El bouari, M. El alami, O. Cherkaoui. <i>Development, characterization and thermal performance of insulating nonwoven fabrics made from textile waste.</i></p> <p>OP19.ID96: A. ELJANATI, H. Elmsellem, Y. KANDRI RODI, F. OUAZZANI CHAHDI, M. Oudani, B. Hammouti, Y. Ouzidan. Corrosion protection of mild steel by 6-chloroquinoxaline-2,3(1h,4h)-dione as a new inhibitor in hydrochloric acid solution</p> <p>OP20.ID115: M. Ouakki, M. Rbaa, M. Galai, B. Lakhrissi, M. Cherkaoui. Experimental study on corrosion inhibition performance of "Imidazole derivative" for mild steel in IN 1.0 HCL MEDIA</p>
<p>11:25 – 13:00</p>	<p style="text-align: center;">THIRD SESSION: GEOTECHNICAL, FLUID AND SOIL MECANICS Room 3</p> <p>Chair: Prof. M. KRIRAA / Prof. A. AZOUANI</p> <p>OP21.ID370: I. Hanafi, K. Haboubi, F. Mata Cabrera, F. Dimane, K. Andaloussi, J. Tejero Manzanares. hydraulic fracture simulation</p> <p>OP22.ID48: E. M. Chaabelasri, A. Amahmouj, I. Elmahi. A bedload transport in shallow water model applied for sediment transport in open channel flows</p> <p>OP23.ID196: Mohammed BOUKHIR, Mohamed JAMAL & Kamal AZZOZI. Detailed study of the superficial formations of the West sector of Fez City (Morocco): Geotechnical interpretation</p> <p>OP24.ID131: Abdessamad JALOUNI, Abderrahim LAHRACH & Abdel-Ali CHAOUNI. Importance of geotechnical zoning map update in geotechnical engineering.</p>

Application to the Fez area using GIS (Morocco)

OP25.ID87: M. Saffi. Urban domestic water-use: The city of Rabat-Salé (Morocco) as a benchmark

OP26.ID24: A. Mamouni, A. Marzak, A. Belangour, M. Azouazi, R. Youness, Z. Al Haddad
ZCMGenerator: the First Framework for Generating Portable, Reusable and Extensible ZCM Models using XML Technology

OP27.ID51: Y. Abouelhanoune, M. El jarroudi. Mathematical modeling of elastic contacts in a granular material

OP28.ID101: A. Toumi and S. Daoudi Statistical study and dynamics of extreme floods in the coastal catchments of the Rif oriental for the integrated management of the hydrological risk (case of the watershed of Kert-Morocco)

OP29.ID123: E. Filihi, M. Sriti, D. Achemlal, M. El haroui. Internal heat source and radiation effects on boundary layer convection from an inclined plate embedded in non-Darcy porous medium

OP30.ID153: K. Daoudi, E. M. Boudi. Optimization Weight Design of the Spur Gear Train Using the Genetic Algorithm

	FOURTH SESSION: ENERGY AND ENVIRONMENTAL ENGINEERING Room 4
	Chair: Prof. F.Dimane / Prof. R. BENKADOUR
11:25 – 13:00	<p>OP31.ID10: Mohamed Elamin AFILAL, Naoual ABBADI, Larbi EL FARH. Biomass in the energy mix of Morocco</p> <p>OP32.ID292: A.Elmehdi, M.L.Elhafyani and S.Zouggar. Study, Realisation and Integration of the Photovoltaic Energy in The Low-Voltage Network</p> <p>OP33.ID44 : M. Guendouz, DJ. Boukhelkhal, A. Kortby. Use of Coffee Waste in Sand Concrete</p> <p>OP34.ID83: K. Al Hamdaouia, Y. Atallab, Ch. Benqlilou. Analysis of operational risks and optimum conditions for cold pressing in oilseeds industry</p> <p>OP35.ID92 : Oumaima. Rachid, Jamal-Eddine. Jellal, Azeddine. Bouyahyaoui. Modeling, thermal transfer and energy efficiency for positive energy homes</p> <p>OP36.ID94 : R. El Alaoui, H. Mounir, B. EL Mostapha, A. El Marjani, H. Echab. Investigation of Modal Analysis of New Materials for Wind Turbine Blade</p> <p>OP37.ID95 : I.Tibermacine, N. Zemmouri, S. Houda. Earth–Air Heat Exchanger Effect on the Reduction of Residential Energy Consumption in Hot and Arid Regions</p> <p>OP38.ID120 : Anass Zaaoumi, Mohammed Alaoui, Abdellah Bah, Omar Ansari. Prediction of the outlet temperature and thermal efficiency of a solar air heater using ANN modeling</p> <p>OP39.ID168 : Ben-Ali, F. Z. Elamri, D.Bria, Z.Tahri, F.Falyouni. Propagation of electromagnetic waves in a photonic crystal containing a material having a negative refractive index</p> <p>OP40.ID169 : Zineb ElAslaoui, Yasser Karzazi. New organic compounds based on thiophene moiety for dye-sensitized solar cells. A computational study.</p>
13:00 – 14:00	Lunch
14:00-15:15	Plenary Conference 3: Prof. Emilio Ramírez Juidías (Espagne) New methodology to obtain slope stability analysis in dams Plenary Conference 4: Prof. Shehdeh Jodeh (Palestine) Effects of Ion Implantation Doping Accompanying Heat Treatment on the Electrical Properties for Prestine and Poly(acrylonitrile) Chairmen: Prof.R.SALGHI / Prof. M.TALEB
	FIRST SESSION: COMPOSITE AND CONCRET MATERIALS Room 1
15:15-16:50	Chair: Prof. M. EL HAIM / Prof. I. DRIOUCH
	<p>OP41.ID229: H. Bakkali, L. Ben allal, M. Ammari. Influence of fly ash particle size on the compressive strength of geopolymer materials</p> <p>OP42.ID235: a.Bakkali Yedri, L. Ben Allal, M. Ammari. Improvement of Mechanical and</p>

Thermal Properties of Fired Bricks Incorporating an Industrial Sludge

- OP43.ID238:** R. Larbi, M. Morsli, A. Bali, E. H. Benyoussef. Mechanical Properties Of Recycled Asphalt Pavement Concretes
- OP44.ID308:** Mohamed Saad Abbadi, NouzhaLamdouar. Updating Structural Performance Using Monitored Data and Proof Loads
- OP45.ID280:** A. KOUTOUS & E. HILALI. Review: The use of natural fibers to reinforce rammed earth material
- OP46.ID16:** F.Agda, M. Taleb, M. Bouachrine. Dft and tddft investigations of new thiophene-based dyes for solar cells
- OP47.ID50:** Y. EL Haloui, M. Elomari, J. Absi, F.Fakhari Tehrani. Numerical Simulation of the Effect of Speed and Fillers on Damage Initiation and Stiffness Degradation at Mastic materials
- OP48.ID59:** Elshiekh,E.A.M., Mahmoud, S.Y.M., Omer,A.Y., AbdElrahman,M.M., Mohammed,M.A. The Potential Usefulness of Recycled Aggregates and Pozzolana in Producing Green Concrete in Sudan
- OP49.ID65:** H. Es-sahbany, M. Berradi, S. Nkhili, M. Belfaquir, H. Nassali, M. S. El Youbi. Comparative study of the adsorption performance of heavy metals by natural clay from Morocco
- OP50.ID69:** C. Djelloul, T. Karech, R. Demagh , O. Limam and J. Martinez. 2D Numerical Investigation of Twin Large Tunnels Interaction in Inclined Position- The Second Tunnel is The Advanced one

SECOND SESSION: MATERIALS ENGINEERING AND COROSION**Room 2****Chair: Prof. A. LAMHAMDI / Prof. A. AOUNITI****15:15-16:50**

- OP51.ID124:** N. Belmokhtar, H. El Ayadi, M. Ammari, L. Ben allal. Effect of a diluted alkali silicate solution on the compressive strength of Metakaolin and an industrial sludge based geopolymers.
- OP52.ID151:** A. Jmiai, B. El Ibrahimy, A. Tara, R. Oukhrib, S. El Issami, O. Jbara, L. Bazzi, M. Hilali. Chitosan as an eco-friendly inhibitor for Copper corrosion in 1M HCl: Gravimetric, Electrochemical, SEM,EDS,AFM and MD studies
- OP53.ID152:** R. Azzallou, M. Ait Taleb, R. Mamouni, A. Benlhachemi, B. Bakiz, S. Villain, S. Lazar. Rapid and Efficient Oxidation of Biginelli 3,4-dihydropyrimidin-2(1H)-ones with Animal Bone Meal Under Microwave Irradiation
- OP54.ID161:** S. Aourabi, M. Driouch, M. Sfaira, M. Ebn touhami, F. Mahjoubi. Ethanolic Extract of A.visnaga as Inhibitor of Corrosion in Acid Medium
- OP55.ID205:** H. fakhry, M. Bouassria, M. El Faydy, A. Zarrouk, A. Aouniti, B. Lakhrissi, B. Hammouti, H. Oudda. A theoretical and experimental study of the inhibition of the corrosion of steel carbone in hcl by using of new molecule derived from quinoline.
- OP56.ID263:** A. Baddouh, M.M. Rguitti, B. El Ibrahimy, L. Bazzi, M. Hilali. De-colorization and electrochemical degradation of Methylene Bleu Dyes by anode oxidation using a DSA Electrode
- OP57.ID264:** M.M. Rguiti, A. Baddouh, L. Bazzi, L.H. Bazzi, M. Hilali. Treatment of OMW by Percolation-Infiltration Process followed by Anodic Oxidation on the SnO₂ Electrode
- OP58.ID267:** A. Mazkour, N. Labjar, S. El hajjaji. Electrochemical behaviour and corrosion inhibition of austenitic stainless steel in a contaminated phosphoric acid
- OP59.ID.273:** M. Afrokhi, S. Echihi, M. Tabyaoui, A. Hatimi, A. Hormatallah and S. Tahrouch. Study of the inhibition of corrosion of C35E steel in molar hydrochloric acid by the ethanolic extract of an endemic of the South Morocco, Haloxylon Scoparium
- OP60.ID275:** F. Z. Elamri, Ben-Ali, F. Jeffali, D. Bria. Defect modes in a two-dimensional photonic crystal

	<p style="text-align: center;">THIRD SESSION: GEOTECHNICAL, FLUID AND SOIL MECANICS Room 3</p> <p>Chair: Prof. I. HANAFI / Prof. L. IKHARAZNE</p> <p>OP61.ID173: L. A. Karroum, M. El Baghdadi, A. Barakat, R.Meddah, H. Oumenskou1, W. Ennaji, M. Aadraoui. Hydrogeochemical Study of Surface Water Resources of Srou Basin Middle Atlas, Morocco</p> <p>OP62.ID207: K. Azzouzi, M. Boukhir, M. Jamal. Geological and geotechnical study of e urban soils in the town of Sefrou, Morocco</p> <p>OP63.ID210: M. Jamal, M. Boukhir, K. Azzouzi, A. Chaouni. Lithostratigraphic study and geotechnical of the Bouregreg Valley</p> <p>OP64.ID244: M. A. Aouadi, F. Lakrad. On Modeling and modal analysis of linear 3D flexural vibrations of a spinning Rayleigh beam</p> <p>OP65.ID282: A. Abidi, a. Demehati, m. El qandil. Landslide susceptibility assessment in Taounate city (Morocco)</p> <p>OP66.ID310: S. El Ouahdani, H. Boukhal, T. EL bardouni, A. Hedarah, M. Lhdour. The Analysis of the CREOLE Experiment with 1166 ppm Boron Using MCNP6.1 Code</p> <p>OP67.ID313: Mohamed Lahdour, Tarek El Bardouni, Hamid Boukhal, Ottman El Hajjaji, Hamid Bougueniz, Sanae ELouahdani. A collision probability codefor effective multiplication benchmark calculations inone and multi-region slab, cylinder and sphere geometries</p> <p>OP68.ID314: A. Bouziane, F. Jamin, A. El Mandour, M. El Omari, M.S. El Youssoufi. Analysis of the behaviour of compressible soils reinforced by stone columns – an experimental laboratory study</p> <p>OP69.ID316: T. Hermime, S. Gabi. Digital simulation of a harbour work of standard quay on sheet piles: case of study with the code plaxis</p> <p>OP70.ID332: M. Makhloul,H.Boukhal, T. El Bardouni, E.Chakir, M. Kaddour. 238U INELASTIC CROSS SECTION ADJUSTMENT IN CRITICALITY BENCHMARKS USING THE NUCLEAR EVALUATION - JENDL-4.0 -</p>
<p style="text-align: center;">15:15-16:50</p>	<p style="text-align: center;">FOURTH SESSION: ENERGY AND ENVIRONEMENTAL ENGINEERING Room 4</p> <p>Chair: Prof. R. BENKADOUR / Prof. A. BARKAOUI / Prof. A. NASSER</p> <p>OP71.ID177: M. S. Bajjou, A. Chafi, A. Ennadi. The Critical Barriers of a Successful Implementation of Lean and Green Construction in Developing Countries</p> <p>OP72.ID180: S. Arabi, a. Chafi, m. El hammoumi, a. En nadi. The obstacles encountered during the implementation of Lean manufacturing in the small and medium-sized Enterprises.</p> <p>OP73.ID.182: m. Aadraoui, m. Elbaghdadi, j. Rais, a barakat,w. Ennaji, l.a. karroum, h. Oumenskou, a. Hilali, e. El hamzaoui,f. Echogdali, a. Ouigmane. Didi i. Karaoui. Characterisation of products from incineration of waste sludges</p> <p>OP74.ID193: A.Mohsine, B. El Mostapha, A. El Marjani. Investigation of Structural and Modal Analysis of a Wind Turbine Planetary Gear using Finite Element Method</p> <p>OP75.ID198:S. Benzaouia, S. Zouggar, M.L. Elhafyani, T. Ouchbel, M. Fannakh, M. Mokhtari. Modeling and Analysis of Wind Electric Water Pumping System based on PMSG Wind</p>

Turbine and DC Pump

- OP76.ID199:** M. Fannakh, M.L. Elhafyani, S. Zouggar, S. Benzaouia, M. Mokhtari. Comparison of the fuzzy logic algorithm to the P&O algorithm of the MPPT control for a photovoltaic system
- OP77.ID203:** H. Oumenskou, M. El Baghdadi, A. Barakat, W. Ennaji, M. Aadraoui, L. A. Karroum. Assessment of heavy metal contamination in agricultural soil of the Beni-Amir irrigated perimeter using the pollution indices -Tadla plain, Morocco.
- OP78.ID208:** M. Benaichi, A. Chetouani, A. Karkri, D. Moussaid, S. E.Elqebbaj. Investigation and Simulation of Bordering Effects in Solar Cells with Three-Dimensional Drift-Diffusion Model
- OP79.ID215:** M. Kouhila, A. Ildimam, Z. Tagnamas, Y. Bahammou, A. Lamharrar. Storage optimal conditions of Mediterranean mussel (*mytilus galloprovincialis*) by convective solar drying
- OP80.ID216:** K. El-Bakkari, A. Sali, J. Kharbach, A. Rezzouk and M. Ouazzani Jamil. Simultaneous effects of hydrostatic pressure and temperature on the optical properties of an exciton in a quantum ring

Coffee break

Poster Session 1

Chair: Doctorante.K. Andaloussi, S.Dahraoui, I. MERIMI/ Doctorant. F.Aoulad Abdenbi

16:50 – 18:00

- PP1. ID3:** Rajae Salim, E. Ech-chihbi, H. Oudda, F. El-Hajjaji and M. Taleb. The effect of 6-chloro-2-(4-fluorophenyl)imidazo[1,2-a]pyridine in hydrochloric acid 1M: Experimental study and quantum approach.
- PP2. ID4:** I. Merimi, F. El-Hajjaji, H. Oudda, B. Hammouti. 2-mercaptobenzimidazole surfactant in the corrosion inhibition of carbon steel.
- PP3. ID7:** Derabla Riad, Bourema Moufida. Valorization of the Waste of Red Bricks in the High Performance Concrete
- PP4. ID11:** Aziz El Alamy, Amina Amine, Mohamed Bouachrine. A Density functional theory design and characterization of molecules type electron donors with narrow band gap for organic solar cells.
- PP5. ID12:** Aziz El Alamy, Amina Amine, Mohamed Bouachrine. Small conjugated compounds based on thiophene: electrochemical and optical characterization for application in flexible photovoltaic solar cells
- PP6. ID14:** H. CHAIB, A. KRIKER. The Influence of the Addition of the Arabic Gum On the Mechanical Properties Earth Bricks Reinforced by Date Palm Fibers.
- PP7. ID15:** Khelfaoui Abderrahmane, Tamali Mohammed, Adjlout Houari, Khelfaoui Mohammed chawki, Khelfaoui Katrenada. Study of the influence of air density and the overpressure in a room on the consumption of energy in the building.
- PP8. ID18:** A. Boukhemkhem, K. Rida, C. B. Molina. Catalytic wet peroxide oxidation of phenol over Al-Fe and Al-Fe-Ce pillared clays.
- PP9. ID19:** S. Amraoui, A. Amrani, N. Dihmani, A. Mezrhab, M.A. Moussaoui. Numerical prediction of convective and radiative thermal transfers in a triangular roof: Effect of eave lengths
- PP10. ID22:** S. Alehyen, M. Zerzouri, M. EL Alouani, M. EL Achouri, M. Taibi. Durability of fly ash based geopolymer Binder
- PP11. ID26:** Asmae Gouza, Kenza Fanidi, Sanaa Saoiabi, Abdelaziz Laghzizil, Ahmed Saoiabi. Effect of heat treatment on the surface properties of selected bituminous shale for cationic dye sorption
- PP12. ID28:** L. Belakhdar, M. Belachia. Reuse of tile waste in pavement construction
- PP13. ID30:** Y. Kaddouri, A. Takfaoui, R. El Ati, B. Hammouti, A. Zarrouk, R. Touzani. New organic materials efficient against corrosion of Mild steel in HCl 1M
- PP14. ID34:** A. Lamhamdi, K. Azzaoui, N. Akartasse, E. Mejdoubi, M. Douma, L. Naanai, A. Aissouq. Synthesis of composites based on calcium phosphates
- PP15. ID37:** a. Bennani, I. Bahi, s. Amgaad. Environmental Impact Assessment of Noise in Urban Context Using Noisemap Model – Case: Bypass Motorways of Rabat-Salé – Morocco
- PP16. ID41:** M. Sikine, Y. Kandri Rodi, F. Ouazzani Chahdi, H. Elmsellem, A. Aouniti, B. Hammouti, Y. Ouzidan, E. M. Essassi. Corrosion inhibition of mild steel by 6-bromo-1H-imidazo [4,5-b]pyridin-2(3H)-one in 1 M HCl
- PP17. ID42:** O. Taimouri, a. Souissi. Modeling, Dimensioning, and Energy Optimization of a

Solar Air Conditioning System Applied to an Office Building.

- PP18. ID43:**S. BELDJILALI, A BOUGARA. Improving the performances bonding of the plaster dedicated to the restoration and the manufacture of architectural ornaments
- PP19. ID45:**M. Guendouz, DJ. Boukhelkhal, A. Kortby. Properties of Sand Concrete made with Recycled Waste Rubber
- PP20. ID46:** M. Guendouz, DJ. Boukhelkhal, A. Kortby. Physical and Mechanical Properties of Sand Concrete reinforced by Jute Fibers
- PP21. ID54:**Choukrallahkarim, Derkaouisouad, Lmai Fatima. Development and Characterization of Solar Cells Based on Perovskite Materials
- PP22. ID55:**Lamia Medjitna, Djillali Amar Bouzid. Determination of soil subgrade modulus used in laterally loaded piles using the Finite Element Method
- PP23. ID56:** B. Abou elanouar, M. Elamrani, B. Elkihel, F. Delaunois Study and development of a predictive maintenance system based on vibratory analysis for the monitoring of rotating machines
- PP24. ID57:**Mostafa. El Ouariachi, Tarik. Mrabti, Kamal. Kassmi, Khalil. Kassmi. Improvement of Single-phase Inverter with Digital control: Atmega32 for Photovoltaic Applications
- PP25. ID62:**Y. Benbrahim, L. Moutei, T. El ghailassi, A. Bouih, S. Labied, T. Guedira, O. Benali. Investigations on the physicochemical and mechanical properties of cement matrix reinforced with red clay powder
- PP26. ID63:**S. Labied, T. El ghailassi, A. Bouih, T. Guedira, O. Benali. Effect of the fireclay in cementitious matrix of confinement of ions exchange resins.
- PP27. ID67:**H. Maarouf, A. Semcha, N. Bouhamou. The valorization of marine sludge in the mortar and concrete. A. Mamouni, A. Marzak, A. Belangour, M. Azouazi, R. Youness, Z. Al Haddad. Zakat Calculation Platforms: A survey, issues and challenges
- PP28. ID70:**A. Mamouni, A. Marzak, A. Belangour, M. Azouazi, R. Youness, Z. Al Haddad. Zakat Calculation Platforms: A survey, issues and challenges
- PP29. ID78:**I.M. Hachani, A. Kriker, N. Kebaili. Effects of Coarse Aggregates Shape on the Mechanical Properties of Algerian Hot Mix Asphalt
- PP30. ID79:**M. Oumarou, N. Aknin. Study of magnetic properties of the perovskite PrMnO_3 by Blume-Capel model
- PP31. ID80:**A. Makani, A. Mekkaoui, M. A. Merine, H. Sahel. Correlation between Geotechnical Characteristics and Stability Analysis of Natural Slope at the Hydraulic Station of Kenadsa (Southwest of Algeria)
- PP32. ID82:**Y. Amadane, H. Mounir, A. El Marjani, G. Ayad. Simulation and electrochemical analysis of PEM fuel cell system
- PP33. ID84:**A. Mamouni, A. Marzak, A. Belangour, M. Azouazi, R. Youness, Z. Al Haddad. A New Approach based on OMG's ADM initiative for the Generation of a Metamodel Modernized for ZCP Platforms
- PP34. ID88:**M. Saffi. Estimate of non-domestic water use rate for the city of Rabat-Salé (Morocco)
- PP35. ID90:**R. Rachidi, B. Elkihel, F. Delaunois, V. Vitry, D. Deschuyteneer. Non-destructive Testing of Adhesion Defects in Thick Composite Coating by Active Infrared Thermography Technique
- PP36. ID93:**A. Mrigal, M. Addou and M. El Jouad. Electrochemical and electrochromic

properties of V₂O₅ produced by spray pyrolysis

- PP37. ID97:**M. Dergal, H.I. Faraoun, A. Mahmoudi. First principles study on structural, electronic and optical properties of 3d transition metals-substituted CuGaSe₂
- PP38. ID103:**Dj.Boukhelkhal, M.Guendouz, O. Boukendakdji, S. Kenai, E. H. Kadri. Ultrasonic pulse velocity to evaluate compressive strength of heat treated SCC
- PP39. ID104:**Dj.Boukhelkhal, M.Guendouz, O. Boukendakdji, S. Kenai, E. H. Kadri. The use of crushed brick waste as fine powder in cement mortar
- PP40. ID106:**A. Mahmoudi, M.K. Benabadji, H.I. Faraoun, M. Dergal. First principle investigation of Li intercalated on MoO₃
- PP41. ID108:**K.cherrak, A.dafali, A.Elyoussfi. Corrosion inhibition of copper in 1 HNO₃ Solution byOrganic molecules
- PP42. ID111:**M. Bourema, R. Derabla. Valorization of the Waste of Red Bricks in the High Performance Concrete
- PP43. ID113:**Hammal Sofiane, Nouredine Bourahla, Laouami Nasser. A neural network approach for Peak Ground Acceleration "PGA": prediction and analysis of seismological parameters effects
- PP44. ID114:**A. Benaissa, Z. Aloui. Treatment and Reuse of Dredged Sediments from the dam Fergoug in Road Construction
- PP45. ID117:**KORTEBY Abdelkarim. Etude de l'influence des caractéristiques des granulats locaux sur les performances du béton autoplaçant (Granulats de la région de Médéa)
- PP46. ID119:**Fatiha Saidi, Mostafa Kerim Benabadji, Ghouti Merad. DFT calculations of structural, and mechanical properties of C15, C14 and C36 Laves phases in YCo₂.
- PP47. ID126:**S. Rhouat, F. Dimane, M. S. EL youbi, K. Haboubi. Performance of the treatment of non-stabilized leachate by coagulation/flocculation and reverse osmosis
- PP48. ID128:**N. Mechbal, M.E. Belghiti, Y. Karzazi. Density Functional Theory Modeling and Monte Carlo Simulation Assessment of Inhibition Performance of Pyrazolyc Derivatives on Mild Steel in Acidic Medium 1M
- PP49. ID129:**S M'zerd, K Rahmani, S Janati, Y Chrafi, I Zorkani, A Jorio. Electric field and donor position effects on the Polarizability of shallow donor in Spherical homogeneous Quantum Dot.
- PP50. ID130:**Mohamed Djouhri, Mohamed Taher Bentebba. Influence of Dune Sand-Concrete Conservation Environments on Physical and Mechanical Properties
- PP51. ID132:**M. Zouini, A. Madaa A. Ben Chaib, M. Madraei. The vanadium dioxide solution to reconstitute information in the optical memories
- PP52. ID133:**H. Fatmi, R. Ababou, J.-M. Matray. Temporal response of claystone formations under barometric and earth tide effects, with application to deep geologic storage of radioactive waste (Underground Research Laboratories of Mont Terri and Tournemire)
- PP53. ID134:**R. Belghanami, K. Bendahane, S. Benkheira, F. Djeddi, Y. Abdelaziz, F. Hammadi. X-FEM and FEM for discontinuities modeling: A comparative study
- PP54. ID135:**H. Hamitouche, M. W. Naceur, C. Zeddami, C. Mesli, S. A. Umoren. Ferrate (VI) as a greener oxidant: Electrochemical synthesis and characterization
- PP55. ID140:**a.boukhelkhal, a. s. e. belaidi, b. benabed, l. azzouz. Fresh and hardened properties of self-compacting mortar with reduced Portland cement content and waste brick powder

- PP56. ID143:**A. Fezzani, I. H.Mahammed, A. Bouchakour, L.Zaghba, M.Benbitour, S. H.Oudjana. Degradation and Performance Evaluation of PV Module in Desert Climate Conditions with Estimate Uncertainty in Measuring
- PP57. ID144:**Laskri Nabila, NedjahNawel, Daas Doula and Baccouche Mostefa. Implementing waste water Chemical Treatment for improving the Biological treatment performance in east of Algeria
- PP58. ID145:**Kernou Nassim, Kaci Abdelhakim, Benyamina Abderrahmane Bekaddour. Pushover a reliability analysis of reinforced concrete structure: A case study
- PP59. ID146:**A.MONADIRI;T. GUÉDIRA ;A. BOUJAD;M. HAFIDI. Characterization and rheological behavior of High Performance concrete
- PP60. ID147:** ESSOUCRATTI khadija, ENNASSIRI houda,Karawanbouchra, HAMMOUMI abderahmanr, BOUCHARIF brahim.Validation de méthode horizontale pour la recherche et le dénombrement de *Campylobacters* pp., selon la Norme Marocaine ISO/TS10272-3 ;Parti 3 : Méthode semi-quantitative.
- PP61. ID148:** H.CHERRAD, M.ADDOU, M. ROUCHDI, E. SALMANI. Investigation of optical properties of ZnO doped Ni
- PP62. ID149:** L. BOUSSABA, A. A. FOUFA, S. MAKHLOUF. Elaboration and Characterization of a New Ecological and Low-Cost Composite-PCM for an Application of Thermal Energy Storage in Buildings
- PP63. ID150:** M.chieul, I.Tabet,L.Mehennaoui,A.fezzani,M.kezzar.Optimization of tilt angle of solar collector using PSO and AG methods
- PP64. ID156:**M. H. R. KHUDHAIR, M. S. ELYOUBI, A. ELHARFI. Study of the effect of the report water/cement on physical and mechanical properties of mortar and concrete
- PP65. ID159:** R. Belghanami, K. Bendahane, S. Benkheira, F. Djeddi, Y. Abdelaziz, F. Hammadi. X-FEM and FEM for discontinuities modeling: A comparative study
- PP66. ID160:** B.CHABOUR, H.AIT AIDER. RECYCLING OF BITUMINOUS MIXES AND TIRE-ROADWAY GRIP IN ALGERIA
- PP67. ID162:** R.El Ati, R.Royaala, Y. Kaddouri, D.Mazouzi, M.El Kodadi, R.Touzani. MONOCOPPER COMPLEX IMMOBILIZED IN A NAFION FILM FOR BIOMIMETIC DETECTION OF CATECHOLS
- PP68. ID163:** N. Nedjah, N. Laskri, D. Daas and M. Baccouche. Wheat Straw Energy Bioconversion: Influence of Inhibitors (NH₄⁺, AGV) on the Production of the Methane
- PP69. ID164:** H. ZAHBOUNE, S. ZOUGGAR, M. EL HAFYANI,P.S. VARBANOV, E. ZIANI. The Electric System Cascade Analysis method for the optimal design of small isolated power systems
- PP70. ID165:** LARBI CHAHT Fouzia, LOUHIBI Zouhir, BELKORISSAT Ismahene. Numerical Simulation of Armed Earth
- PP71. ID170:** I. Toumi, Y. Abed, A. Bouafia. Soil Parameters Identification around P.M.T. Test by Inverse Analysis
- PP72. ID382:**Y. El Kaissi, A. Koulou, Y.Hmidani, R. Mariouch, M.S. Elyoubi, M. Ebn TouhamiEffect of chloride ion and associated cation type on steel reinforcement corrosion in simulated carbonated concrete pore solutions in the presence of sulfate ions
- PP73. ID174:**z. El kerdoudi, b. Gattari, a. Taitai, m. Bennani-ziatni, n. Elmejdoub. The Comparison of the Characteristic of Leachates Enters Various Pond of the Same

Discharge (Kenitra)

- PP74. ID175:** AMARA. A, KHALAF.H. Modification of the structure of the montmorillonite and its application to the hydrocarbon mercury removal
- PP75. ID176:** F. Barje, M. Hafidi. Biodegradation and heat recovery during the composting process of the olive mill wastes and organic household refuse
- PP76. ID178:** Zineb ElAslaoui, Yasser Karzazi. Structural and electronic properties of dye-sensitized TiO₂ for solar cells applications
- PP77. ID181:** R. Hsissou, B. El Hilal, A. Bekhta, O. Dagdag, A. El Harfi. Synthesis and characterization of a new binding macromolecular Polycondensate hexafonctionnel Hexa Glycidyl Ethylene of Methylene Dianiline (HGEMDA). Formulation of a nanocomposite based natural phosphate
- PP78. ID183:** M. AADRAOUI, M. ELBAGHDADI, J. RAIS, A BARAKAT, W. ENNAJI, L.A. KARROUM, H. OUMENSKOU, A. HILALI, E. EL HAMZAOU, F. ECHOGDALI, A. OUIGMANE. DIDI, I. KARAOU. DISPOSAL STRATEGIES FOR SEWAGE SLUDGE
- PP79. ID186:** Benchiheb djihen, AMOURI chahinez, HOUARI hacène, BELACHIA mouloud. Strengthening the cementitious matrix with mineral additions and carbon fibers
- PP80. ID189:** Lahou Omar, Mostafa Najam, Mustapha El Alami. Natural convection in a partitioned rectangular cavity
- PP81. ID191:** I. LEBKIRI, A. OUASS, Y.ESSAADAOU, L. KADIRI, A. LEBKIRI, E. H. RIFI. CHARACTERIZATION AND BEHAVIOR OF POLYACRYLAMIDE, IN CONTACT WITH AQUEOUS SOLUTIONS IN ABSENCE AND IN THE PRESENCE OF METAL IONS
- PP82. ID194:** N. Akartasse, E. Mejdoubi, K. Azzaoui, A. Lamhamdi, M. Lakrat. Novel Chitosane and Hydroxyapatite Biomaterials Composites for Adsorption of Heavy Metal Ions from Aqueous Solutions
- PP83. ID195:** D. TLAMSAMANI, K. YAMNI, N. TIJANI, H. ZOUHRI, M. AIT MOUHA, B. BA MOHAMMED. Review of the tricalcium silicate polymorphism
- PP84. ID197:** Mohammed BOUKHIR, Kamal AZZOUZI & Mohamed JAMAL. Study of the superficial geological deposits of the northern sector of Fez City (Morocco): Cartography and geotechnical properties
- PP85. ID201:** L. Ikharrazne. Nonlinear Numerical Analysis of Steel Moment Resistant Joints under Seismic Actions
- PP86. ID202:** Imane. AMARIR, Hamid. Mounir, Abdellatif. El Marjani. Investigation of the performance of a structure based on welded rectangular profiles for automotive utilization.

<p>08:30 – 09:05</p>	<p>Plenary conference 5:</p> <p>Prof. Francisco Mata Cabrera (Spain) Sustainability and building materials</p> <p>Chairmen: Prof.Moulay Brahim SEDRA/ Prof. Issam HANAFI</p>
<p>09:05 – 10:45</p>	<p>FIRST SESSION: COMPOSITE AND CONCRET MATERIALS Room 1</p> <p>Chair:Prof. Z. TAHRI / Prof. A. KERKOUR-EL MIAD / Prof. H. BOUALI</p> <p>OP81.ID76: S. Boukor, M.L. Benmalek. Cementitious mortar modified with crushed clay brick and tire rubber aggregate</p> <p>OP82.ID81: A. Noufid, S.Belattar. OptimumUse of Metallic Fibers in Ordinary Concretes for Improved Post-Crack Resistance and Stored Energy</p> <p>OP83.ID86: S. M. Mansour, R. chaid. Pozzolanic effect of pyrophyllite powder on the mechanical properties of fiber reinforced concrete</p> <p>OP84.ID91: M.Benmammar, S.M.A. Boukli Hacem. Influence of silica fume on the dynamicproperties of concrete</p> <p>OP85.ID100: J. Hedi, H. Hachem, S. Khalifa. CO2 Capture by Clay and its Adsorption Mechanism</p> <p>OP86.ID107: M. K. Benabadji, A. Mahmoudia, F. Saidi. Ab-initio study of structural, mechanical and hydrogen storage properties in Rares Earth compounds RENi4Mg (RE: Y and La)</p> <p>OP87.ID125: Laghlimi C, Smaini MA, Maallah R, Touzara S, El Qouatli S and Chtaini A. Organic Sensor for the Detection of Ammonium</p> <p>OP88.ID139: H. Jaafar, A. Aouaj, A. Bouziane. Impact of Dual Metal Gate-Graded Channel-Dual Oxide Layer on Device Characteristic of Surrounding Gate MOSFET</p> <p>OP89.ID155: M. H. R. Khudhair, m. S. Elyoubi, a. Elharfi. Valorizationand study the influence of the combination between the natural pozzolan and the superplasticizers on the physical and mechanical properties of high-performanceconcrete</p> <p>OP90.ID157: K.nehhale, s.sair, o.tanane, y.abboud, a.el bouari. Contributions to the study of the electrochemical behavior ofConcrete reinforcements: the role of natural extracts</p>

SECOND SESSION: MATERIALS ENGINEERING AND COROSION	
Room 2	
	<p>Chair: Prof. D. ACHEMLAL / Prof. E. CHAABELASRI</p> <p>OP91.ID278: Y. Bahammou, Z. Tagnamas, Mn. Kouhila, A. Lamharrar, A. Idlimam, Z. M. Kouhila. Stability study of the materials of Argan tree and their conditions of storage by examining the spreading pressure and net isosteric heat of sorption</p> <p>OP92.ID279: Asmae Saady, Mustafa Taleb, Khadija Ismaily Alaoui, Asmae Mahfoud, Rais Zakia, Abdelmoula El Biache, M.Filali Baba, Belkheir Hammouti. etude experimentale et theorique de nouveaux composes de derives d'indanones inhibiteurs de corrosion de l'acier doux en milieu hcl 1m</p> <p>OP93.ID296: D. Jeroundi, H. Elmsellem, S. Chakroune, B. Hammouti, R. Idouhli, E. M. El Hadrami, A. Ben-Tama, M. Oudani, Y. Ouzidan, Y. Kandri Rodi. Impact of rust on the environment, synthesis of new thione derivatives for the protection of mild steel from corrosion</p> <p>OP94.ID363: B. El ibrahimi, a. Jmiai, r. Oukhrib, m. Chadili, s. El issami, l. Bazzi. Chitosan as Corrosion Inhibitor for Copper: Molecular Dynamic Approach</p> <p>OP95.ID5: I.Merimi, Y. El Ouadi, H. Oudda and B. Hammouti. Inhibitory action of ((Z)-4-((2,4-dihydroxybenzylidene)amino)-5-methy-2,4-dihydro-3H-1,2,4 triazole-3-thione) on Carbon Steel Corrosion in Hydrochloric acid Solutions</p> <p>OP96.ID6: L.Mountassir, T. Bassidi, H. Nounah. Identification and characterization of steel corrosion using Lamb modes</p> <p>OP97.ID17: F. El-Hajjaji, M. Taleb and B. Hammouti. Corrosion inhibition of steel by Quinoxalines</p> <p>OP98.ID23: S. El arrouji, k. Karrouchi, z. Rais, m. Taleb, k. Ismaily alaoui, f. El hajjaji, a. Aouniti et b. Hammouti. Adsorption and Corrosion Inhibition Effect of Pyrazole molecules on the Mild Steel Surface in 1 M HClMedium: a Combined Experimental and Theoretical Approach</p> <p>OP99.ID29: N. Ameer, R. Bachir, S. Bedrane, A. Choukchou-Braham. Nanomaterials For Adipic acid Production</p> <p>OP100. ID35: S. Akazdam, M. Chafi, W.Yassine, L. Sebbahi, B. Gourich, M. Essahli. Kinetics, Equilibrium and Thermodynamics Mechanism of Removal of Methylene Blue by NaOH Treated Eggshells and Eggshells Without Treatment-A Comparative Study on the Biosorption.</p>
09:05 – 10:45	
THIRD SESSION: GEOTECHNICAL, FLUID AND SOIL MECANICS	
Room 3	
	<p>Chair:Prof. S. DAOUDI / Prof. A. EL GHOULBZOURI / Prof. S. AMRAQUI</p> <p>OP101. ID339: M. Lakhlifi, O. El rhaouat, M. Najy, D. Belghyti and K. El kharrim Predictive Production of Muds by the Sewage Treatment Plant of Skhirat, Morocco</p> <p>OP102. ID342: M. Kebdani, G.Dauphin-Tanguy, A. Dazin. Bond Graph Based Modeling and Experimental Validation of a two-phase fluid loop mechanically pumped</p> <p>OP103. ID343: Hamza. BELBSIR, Khalil EL-HAMI and Aziz SOUFI. Modeling and simulation of the flow behavior of the phosphate slurry through the pipeline with both continuous pompage and Batch cases</p> <p>OP104. ID372: A. El fissi, R. DKIOUAK. Geotechnical quantification of the liquefaction susceptibility of soils of Tangier</p>
09:05 – 10:45	

	<p>OP105. ID21: Driss Harzalla. Binary Hamming codes from Matrix and group Algebras</p> <p>OP106. ID25: A.Zejli, H. Asselman, A. Daouidi. Study the swelling of clay soils by the new method based on Laser Interferometry</p> <p>OP107. ID52: N. Belas, O. Belaribi, , K. Belguesmia, O. Safer, R. Hadjsadok, F. Taieb. Durability of self compacting concrete with calcined mud against sulphat sodium attack</p> <p>OP108. ID77: M. El Haroui, M. Sriti, D. Achemlal, E. Filihi. Numerical investigation of thermogravitational separation of binary fluid mixture in a porous medium</p> <p>OP109. ID142: R. Zmemla, P. Chaurrand, M. Benjdidia, B. Elleuch, J.Y. Bottero. Recycling of Tunisian Phosphogypsum as road material: Assessment of mechanical and leaching behavior</p> <p>OP110. ID188: B. El Hilal, M.H.R. Khudhair, R. Hsissou, M.S. Elyoubi and A. Elharfi. Modeling by response surface methodology the mechanical behaviors of radioactive waste containment</p>
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FOURTH SESSION: ENERGY AND ENVIRONMENTAL ENGINEERING	
Room 4	
Chair: Prof. M. A.MOUSSAOUI / Prof. M. DOUMA/ Dr. F.EL HAJJAJI	
09:05 – 10:45	<p>OP111. ID225: E. Iqraoun, A. Sali, J. Kharbach, A. Rezzouk and M. Ouazzani Jamil. Hydrostatic pressure, temperature and electric field effects on donor binding energy and Photoionization Cross-Section of Impurities in Quantum Dots **</p> <p>OP112. ID227: a. El ghammat, k. Riffi temsamani. Etude de Caractérisation Physico-Chimique des Eaux Usées en vue de la mise en œuvre d'un Traitement Adéquat : Cas de la Zone Industrielle de Tétouan</p> <p>OP113. ID234: Mohammed chentouf, Mohamed allouch. Evaluating the potential of carbon dioxide mitigation in Moroccan electricity sector: a system dynamics approach</p> <p>OP114. ID246: A. Karkri, A. Chetouani, M. Benaichi, D. Moussaid, S. E. Elqebbaj. Numerical Simulation of Irradiation Induced Degradation in Multijunction Solar Cells</p> <p>OP115. ID249: F. DIB, Z. Lahlou, I. Boumhidi. Proportional Integral Derivative sliding mode control optimized by TLBO algorithm for wind turbine systems</p> <p>OP116. ID285: A. Sali, J. Kharbach, A. Rezzouk, M. Ouazzani Jamil. The effect of the electric and magnetic field and the band non-parabolicity effect on the donor binding energy in a conical quantum dot</p> <p>OP117. ID307: Hajar JAOUANI, Denoun SAIFAOUI, Youssef JOUANE3, Habiba ENNAMIRI. Integration of Organic Photovoltaic Cells in Smart Textile</p> <p>OP118. ID319: M. El Hadi, A. El Moussaouy, and A. Nougouy. Combined effect of axial hydrostatic pressure, electric field and temperature on exciton states in an asymmetric strained quantum dot</p> <p>OP119. ID351: S.Edalle, M.Benyakhlef. Maximum power tracking for the photovoltaicsystem by modified reference</p> <p>OP120. ID359: Awatef Tahouri, Jad Tahouri, Faical Boutlib, Sanae Achour and Badiia Lyoussi. Epidemiological and Clinical Aspects of Carbon Monoxide Poisoning in Fez city (Case of Ibn Alkhatib Hospital)</p>
10:45 - 11:05	Coffee break
FIRST SESSION: COMPOSITE AND CONCRET MATERIALS	
Room 1	
Chair: Prof. S. ATLATI / Prof. T.GUEDIRA/ Prof.M. CHAABELASSRI	
11:05 – 12:45	<p>OP121. ID.158: M. El khoudri, m. Himi, d. El adak, m. Ammari, I. Ben allal. Seismic Vulnerability Assessment of the Effect of Elevation of Reinforced Concrete Buildings Using Incremental Dynamic Analysis IDA</p> <p>OP122. ID179: R. Hsissou1, B. El Hilal, M. El Bouchti, M.S. Elyoubi, A. El Harfi. Elaboration, Viscoelastic and Rheological Studies of a New material Nanofunctional Polyepoxide Polymer: Nanoglycidyl trihydrazine 4,4,4-tripropoxy of ethylene tribisphenol A</p> <p>OP123. ID230: N. H. Mtarfi, Z. Rais, R. Elmrabet, M. Taleb, S. Naamane, F. Bouaich Optimization of the milling agent effect on the grinding and the mechanical properties of cement</p> <p>OP124. ID231: RHAZI Naima, M. Oumam, A. Sesbou, H. Hannache, F. Charrier-El</p>

	<p>Bouhtoury.Elaboration of characterization of biobaded adhesives from lignosulfonates and Acacia mollissima Tannins for bonding plywood panels</p> <p>OP125. ID239: A. Bendarma, T. Jankowiak, A. Rusinek, M.Klosak, T.Łodygowski. Analysis of aluminum alloy behavior during perforation process while heated using a thermal chamber</p> <p>OP126. ID240: Hanane ARROUB, M.S. Elyoubi and Ahmed EL HARFI. Comparative study of commercial polyvinylalcohol and synthesized in the treatment of liquid effluents resulting from hot galvanization</p> <p>OP127. ID248: H. Kais, N. Yeddou-Mezenner, A. Hamadi, F. Atmani, N. Sabba. A Study on the degradation of an anti tuberculosis drug by ZnO Photocatalysis upon UV Light Irradiation</p> <p>OP128. ID261: FALL Yahya, CHOURAK Mimoun, BENHADI Abderrahmane, HIMI Mahjoub. Study of the influence sand on the mechanical performance of cement mortars with regard to the aggressiveness of seawater</p> <p>OP129. ID268: E. KIBBOU i, O. Zebri, H. El Minor, A. Bendarma. Plastic zone and effective distance under mixed mode fracture-Volumetric approach-</p> <p>OP130. ID288: O. Zebri, a. Bendarma, h. El minor, m. Klosak. Experimental and Numerical Analysis of the S235JR Steel Alloy Subject to Dynamic Perforation Tests under the Influence of the Shape of a Conical Projectile</p>
11:05 – 12:45	SECONDESSION: MATERIALS ENGINEERING AND COROSION Room 2
	Chair: Prof. A.CHETOUANI / Prof. R. TOUZANI
	<p>OP131. ID36: W.Yassine, S. Akazdam, S. Zyade, M. Chafi, B. Gourich, M. Elbouchti, M. Benani . Removal of Phenol from Industrial Wastewater Using Electrocoagulation Process</p> <p>OP132. ID64: A. Ouass; I. Kadiri; y. Essaadaoui; m. Ouakki; m. Galai; a.lebkiri; m. Cherkaoui; e. H. Rifi. Effect of poly (acrylic acid) as an efficient inhibitor of mild steel corrosion in 1.0M hydrochloric acid medium</p> <p>OP133. ID66: L. Kadiri, y. Essaadaoui, a. Ouass, m. Galai, m.ouakkiM. Cherkaoui, e.h. rifi, a.lebkiri. Comparative study of corrosion inhibition of mild steel in 1.0 HCl and 0.5M H2SO4by aqueous extract of Coriandrum Sativum.L seeds</p> <p>OP134. ID68: H. Marouf, A. Semcha and N. Bouhamou. The dredging sludge valorization In the brick fabrication</p> <p>OP135. ID72: K. Alaoui, Y. El Kacimi, M. Galai, H. Serrar, M. Ouakki, R. Tourir, S. Kaya, S. Boukhris, C. Kaya, M. Ebn Touhami. Quantum chemical calculations, molecular dynamics simulation and experimental studies of using some triazepines substituted compounds as corrosion inhibitors for carbon steel</p> <p>OP136. ID73: K. Alaoui, M. Galai, Y. El Kacimi, H. Serrar, R. Tourir, N. Dkhireche, S. Kaya, S. Boukhris, B. Tüzün, M. Ebn Touhami. Triazepines substituted compounds As novel Carbon steel Corrosion Inhibitors: Electrochemical study, DFT and Molecular Dynamics Simulations Approaches</p> <p>OP137. ID371: R.Elmrabet, M.S.Elyoubi, M.Belfaquir and N.Mtarfi. Study of properties of fly ash cements.</p> <p>OP138. ID75: Y. El Kacimi, M. Galai, K. Alaoui, R. Tourir, N. Dkhireche, M. Ebn Touhami. Surface Morphology Studies and Kinetic-thermodynamic characterization of Steels</p>

	<p>treated in 5.0 hydrochloric acid medium</p> <p>OP139. ID85: M.Douma, K.Haboubi, K.Andalousi, A.Lamhamdi, F.Dimane. Solid-State reaction synthesis of new pyrochlore solid solution $(1-x) \text{Gd}_2\text{Sn}_2\text{O}_7 - x \text{MO}$ (M = Mg, Zn)</p> <p>OP140. ID98: S. Khatbi, Y. Gouale, A. Lamiri, M. Essahli. Effect of the Addition of Phosphoric Products on the Resistance to Corrosion of Lead in Lead-Acid Batteries</p>
	<p>THIRD SESSION: GEOTECHNICAL, FLUID AND SOIL MECANICS</p> <p>Room 3</p>
	<p>Chair: Prof. M. A. MOUSSAOUI / Prof. L. IKHARAZNE</p>
11:05 – 12:45	<p>OP141. ID217: Z. Bellia, M. S. Ghembaza, T. Belal. Développement d'un modèle Thermo-Hydro-Mécaniques des sols non saturés basé sur le concept de la surface limite</p> <p>OP142. ID219: R. Ben Amor, N. Gueddich. Statistical study on safety in the construction sector in Tunisia</p> <p>OP143. ID291: Faical Boutlib, Camille Marie Florence Deman, Raja Guemmouh, Abdelhamid Sadiki, Jad Tahouri. Directive Application of the PAP / CAR Guidelines for the Control of Erosion in a Career Encircled by Cedar</p> <p>OP144. ID301: A.Haddaoui, A.Semlali. The polarization induced by a dispersive effect in the vicinity of the small cylindrical cavities in a metal</p> <p>OP145. ID320: .a. Demehati, a. Abidi, m. El qandil. The Erosion of expansive soils through a zoning of Taza (Morocco)</p> <p>OP146. ID323: Mimoun OUKADR, Hassan AYAD, Mohamed CHAGDALI. Modeling of sediment transport of Capo Negro bay.</p> <p>OP147. ID329: F. Khelil, B. Aour, F. Benaoum. Biaxial Testing of 6082-T6 Aluminum Alloy Using Cruciform Specimens</p> <p>OP148. ID344: Y. El khchine, M. Sriti. Effect of surface roughness and boundary layer on the aerodynamic characteristics of airfoil S809</p> <p>OP149. ID365: Asmae el hassouni, ali el bachiri. Antioxidant protective properties of Lavandula dentata, lavandula stoechas et lavandin extracts</p>
	<p>FOURTH SESSION: ENERGY AND ENVIRONMENTAL ENGINEERING</p> <p>Room 4</p>
	<p>Chair: Prof. M. KRIRAA/ Prof. I. DRIOUCH</p>
11:05 – 12:45	<p>OP150. ID13: A. Hadidi, b. Berbaoui. Overview on solar system for water pumping</p> <p>OP151. ID20: A. Bannour, M. El Omari, El Kh. Lakhal, Y. El Haloui. Study of the factors influencing the temperature distribution in the surface layer of bituminous pavements</p> <p>OP152. ID27: Chahrazad El Abiad, Smaail Radi, Mohamed El Massaoudi, Hicham El Madioune, Maria A. F. Faustino, Maria G. P. M. S. Neves. A New Silica Hybrid Material Modified with diethylenetriaminepentaacetic acid for Environmental Purpose</p> <p>OP153. ID31: I. Sellami, m. Djemai. contribution to the identification of the variation potentiality of landslide in the natural catchment of Kouala, Medea province, Algeria</p> <p>OP154. ID33: M. Ghalit, e. Gharibi, d. Kouotou, a. Errahmouni. Impact of groundwater in the Bokoya massif (Al Hoceima) on the quality of concrete</p> <p>OP155. ID38: A.Atifi, H.Mounir, A. El Marjani. Numerical Simulation of Effect of Clamping</p>

	<p>Pressure on Mechanical Behavior of GDE and PFSA Membrane Assembly</p> <p>OP156. ID47: H. Elmontassir, k. El falaki, m. Afdali, y. Karhat. Characterization and Valorization of sludge from drinking water treatment in the manufacture of bricks</p> <p>OP157. ID71:O. Dagdag, A. EL Harfi, A. Essamri, O. Cherkaoui, M. Berrani, S. Namoussi, M.S. Elyoubi, H. El Kafssaoui, M. Ebn Touhami and S. Jodeh. Influence of UV light and water on the degradation of environmental-friendly epoxy composite coating using Zinc Phosphate as anticorrosive.</p> <p>OP158. ID99:B. Medjahed, M. Bouzit: Numerical simulation of pollutant dispersion in four buildings (a multi-canopy building array).</p> <p>OP159. ID136: S.Nkhili, H. Es-sahbany, A. Doukhi, A. Belhomsa, KH. Elkharim, M.S. Elyoubi, D. Belghyriti. Impact of environmental pests on wildlife and flower health: Application of local horses</p>
12:45-14:00	Lunch
15:00 – 15:35	<p>Plenary Conference 6 :</p> <p>Prof. MOHAMMED ZOUGAGH</p> <p>Nanometer-Sized Materials As An Usful Tool For Sample Preparation In Analytical Applications</p> <p>Chairmen: Prof. H.OUDDA</p>
	FIRST SESSION: COMPOSITE AND CONCRET MATERIALS Room 1
	Chair:Prof.Z. TAHRI/ Prof. A. KHALED
15:35– 17:15	<p>OP160. ID311: H. El aadad, t. Jermoumi, a. Chahine. In situ sol-gel synthesis and characterization of organic-inorganic nanocomposites of polystyrene-tio2</p> <p>OP161. ID317: Nefla Djamil, Hidjeb Mustapha. Numerical Modeling of the Reinforcement of Tunnels Face Using Longitudinal Fibre Glass Bolts Case of the T4 Tunnel of the East-West Motorway ALGERIA</p> <p>OP162. ID338: Nadia BEKOUCH, Safae OUMNIh. Properties of marls and clays stabilized with lime and phosphogypsum</p> <p>OP163. ID347: B. Aour, A. Seddiki, F. Khelil. Experimental study of the API 5L X70 steel used for the manufacture of pipelines</p> <p>OP164. ID376:Mohammed ELYOUBI , Mohamed ROUGUI. Assessment of the buckling behavior of composites thick plated structures:Analytical and numerical results usingfinite elements analysis</p>
	SECOND SESSION: MATERIALS ENGINEERING AND COROSION Room 2
15:35– 17:15	Chair:Prof. Prof. A.AOUNITI/ Prof. M. ZERFAOUI
	OP165. ID110: Mesrar Mohammed, T-Lamcharfi,Nour-Said Echatoui,F.Abdi. Electrical properties and relaxation behavior of Na 0.5Bi0.5TiO3 –BaTiO3 ceramics

	<p>OP166. ID112:S. Echihi, N. Benzbiria, Wafaa Qafsaoui, Mohamed Tabyaoui. Inhibitive action of 1,3,4-thiadiazole-2,5-dithiol(DMTD)for copper corrosion in chloride solution</p> <p>OP167. ID127:N. Mechbal, M.E. Belghiti, Y. Karzazi. A Comparative Density Functional Theory and Molecular Dynamics Simulation Studies of the Corrosion Inhibitory Action of two new Pyrazolyc Derivatives on Steel Surface in Acid Medium.</p> <p>OP168. ID141:M. Bouklah, B. Hammouti, A. Aouniti. Thermodynamic characterization of metal dissolution and inhibitor adsorption processes in mild steel/new bipyrazole derivatives/hydrochloric acid system.</p> <p>OP169. ID190: Faouaz JEFFALI, Bachir EL KIHHEL, Abdelkarim NOUGAOUI2, Fabienne DELAUNOIS. Study on the non-destructive thermal diagnosis of bearing and variable rotational speed by temperature mapping in Infrared Thermography</p> <p>OP170. ID211: M.Amrani,E. H. El Boudouti, A. Noual, O. El AboutiTamm states induced by a graphene layer embedded beneath the surface of a dielectric superlattice</p> <p>OP171. ID213: K. Haboubi, I.Hanafi, F.Dimane, M.Douma, K. Andaloussi, A. El HimriStudy of the thermal degradation of the epoxy resin loaded with metal Cobalt</p> <p>OP172. ID228: N. Lotfi, H. Oudda, M. OUHSSINE,R. Salghi. Effect of tea tree oil as a green inhibitor on steel corrosion behaviour</p> <p>OP173. ID252: Ba Khalidou, A. Chahine. Synthesis of a material by the sol gel method</p>
15:35– 17:15	THIRD SESSION: MATERIALS ENGINEERING AND COROSION Room 3
	<p>Chair:Prof Prof. D. ACHEMLAL / Prof. M. DOUMA</p> <p>OP174. ID287: M. Derra, F. Bakkali, A. Amghar, H. Sahseh. Measurement of coagulation time using an ultrasonic technique based on the argand diagram</p> <p>OP175. ID304: B. Ouadil, O. Cherkaoui, R. Ait Mhand, M. Safia, M. Zahouilya. Surface Modification of Knit Polyester Fabrics for Multifunctional Properties by Coating With Graphene Oxide, Graphene and Graphene/Silver Nanocomposites</p> <p>OP176. ID327: H. Tayebi, S. Echihi, A. Zarrouk, A. Geunbour, B. Hammouti. An electrochemical and theoretical evaluation of new quinoline derivative as a corrosion inhibitor for carbon steel in HCl solutions</p> <p>OP177. ID330: O. Berradi, M.S. Elyoubi, M.belfaquir, R. Ghailane. Quantum and vibrational study of tetrabutyl ammonium hexachlorostanate of formula [(C4H9)4N]2SnCl6</p> <p>OP178. ID336: M. Boudalia, A. Bellaouchou, A. Guenbour, M.Tabyaoui. Investigate the Corrosion Inhibition of Steel in Hydrochloric Acid Solution by Triazole Derivative</p> <p>OP179. ID360:Rabab Boyaala ; Rafika El Ati; Farid Abrigach; Mohamed El Kodadi; Rachid Touzani and Belkheir Hammouti: Catecholase Activites Studies of Bis-Tripodale Pyrazolyl N-Donor Ligands, With Different Copper (II) Salts</p>
15:35– 17:15	FOURTH SESSION: ENERGY AND ENVIRONEMENTAL ENGINEERING Room 4
	<p>Chair: Prof. A. EL GHOULBZOURI / Prof. A. TIMESLI / Prof. M. KRIRAA</p> <p>OP180. ID138: A.boukhelkhal, I. Azzouz, a.s.e. belaidi, b. Benabed. Strength and durability of reduced impact environmental self-compacting concrete incorporating waste marble powder</p>

	<p>OP181. ID364: A.Khaled. Study of the evolution of two families of modal waves in multilayered periodic media</p> <p>OP182. ID187:M.Mokhtari, L. Zekri, N.Zekri: Numerical study of the currents fluctuations in conductor-polymer composite near the percolation threshold</p> <p>OP183. ID206: M. H. Aissa, dj. Amar bouzid. Head Stiffness of Large Diameter Monopiles Supporting Offshore Wind Turbines</p> <p>OP184. ID221:N. Saidi, M. Ramdani, K. Azzaoui, A. Lamhamdi, E. Mejdoubi, B. Hammouti. Using green Opuntia pectin hydroxyapatite nanocomposites for the removal ofCobalt from water</p> <p>OP185. ID226:S. Aboul-hrouz, h. Hamdane, m. Oumam, z. Baroudi, m. Ammar , h. Hammad, h. Hannache. Optimization of compressive strength of metakaolin & red brick based composite geopolymer using experimental design</p> <p>OP186. ID245:Zakaria Ghouli, Mustapha Hamdi, Faouzi Lakrad, Abderrahim Azouani and Mohamed Belhaq. Energy harvesting in excited Duffing harvester device under modulated delay amplitude</p> <p>OP187. ID299:B. Gattari, N. EL Mejdoub. Development of a detailed kinetic mechanism for the combustion of chlorobenzene</p> <p>OP188. ID333:R. Benkaddour, I. Merimi, H. Oudda and B. Hammouti. Study of the quality of liquid discharges an industrial zone</p> <p>OP189. ID337: Manelle RADJAI, Mokhtar Boutahala. Synthesis and Characterization of New Materials Based on Raw Diatomite: Application in the water treatment</p> <p>OP190. ID.352: F.Z. Zouhair , A. Benali, Y. Ennahli, R. Kebbour, N. Cheikhi, M.Bouksaim and A.Essamri . The acid hydrolysis modeling of a. Spinosa pulp in the production of second generation bioethanol</p> <p>OP191. ID377:f. Aoulad abdenabi, k.Haboubi, m.s. elyoubi. Numerical modeling of densified biomass combustion of olive pomace and forest residue (Alfa) pellets in a heating boiler</p> <p>OP192. ID380:F. Dimane, K. Haboubi, I. Hanafi, A. El Himri, M. Douma, K.Andaloussi. The elimination of heavy metals from wastewater using biomass by Marine Green Algae Ulva compressa (Linnaeus)</p> <p>OP193. ID383.N.K. Msirdi, E.Baghaz, A.Naamane. Modélisation électrique et thermique et étude de vieillissement d'un transistor Mosfet de puissance à base de Carbure de Silicium C2M0025120D</p> <p>OP194. ID384. M.benabdellatif, A. Naamane, N.K.Msirdi Z. M. Gasem Comparative Analysis and Optimization of PhotoVoltaic/Thermal Structure and Materials</p>
	<p style="text-align: center;">Coffee break</p> <p>Poster Session 2</p> <p>Chair: Doctorant. M.Aoulad Ali/ Doctorante. A.ELABDOUNI/Doctorant M.El AZZOUZI</p> <p>PP87. ID204: H. Oumenskou, M. El Baghdadi, A. Barakat, W.Ennaji, M.Aadraoui, L. A.Karroum.Use of multivariate statistical and geographic information system (GIS)-based approach to evaluate soil quality in the irrigated perimeter of the Beni-Amir-Tadla plain (Morocco).</p> <p>PP88. ID212:F. Atmani Selmane, N. Yeddou-Mezenner. Treatment of Bilge Water by Adsorption Process onPretreated calcined material.</p>

17:15 – 17:40

- PP89. ID214:** QACHACH Hajar, S. Akazdam, M.Tahiri,N.Bourhim, M.Loutfi, M. Chafi. Valorization of recycling bentonite charged from lubricants of waste oils: physicochemical processes and ecotoxicological study
- PP90. ID218:**R. Ben Amor, N.Gueddich. Comparative thermal study of energy performance in Tunisia: A case study
- PP91. ID222:** Saidi, M. Ramdani, K. Azzaoui, F. Yousfi, A. Lamhamdi, E. Mejdoubi, B. Hammouti. Extraction, Characterization and gelling behavior enhancement of pectins from the cladodes of *Opuntia ficus indica*
- PP92. ID223:** A.Salmi, K. Lahlou, L. Bousshine. Literature review:Laboratory characterization tests of unbound materials for pavement construction
- PP93. ID224:**M. Mokhtari, S.Zouggar, M.L.Elhafyani, T.Ouchbel, S. Benzaouia, M. Fannakh. Comparative study of reactive power compensators used for maintaining the voltage stability of a wind turbinewith variable speed
- PP94. ID232:** RHAZI Naima, F. Charrier-EL Bouhtoury,A. Sesbou, H. Hannache, M. Oumam. Modeling and optimization extraction process of condensed tannins from Moroccan bark of *Acacia mollissima* using experimental design methodology
- PP95. ID233:** S. Lbibb. Probabilistic slope stability analysis including seismic loading
- PP96. ID236:** Soufiane Zerraf, Mustapha Belhabra, Bouchra Gourja, Malika Tridane and Said Belaaouad. Chemical preparations, crystal data for condensed phosphates associated to barium and IR studies of their anions
- PP97. ID237:**R. Azzallou, M. Ait Taleb, R. Mamouni, A. Benlhachemi, B. Bakiz,S. Villain, S. Lazar. Animal Bone Meal catalyzes the one-pot synthesis of 1,4-dihydropyridines derivatives via an unsymmetrical Hantzsch reaction
- PP98. ID241:**HananeARROUB,M.H.R.Khudhairand Ahmed EL HARFI. New process for treatment of waste water from hot dip galvanization: Optimization study by the couples of (alumina sulphate/ ferrocryl8723) and (alumina sulphate/chitosan)
- PP99. ID242:**m. Bouassiria, t. Labaissi, h. Fakhry m. El faydy, a. El midaoui, h. Oudda, a. Zarrouk, b. Lakhrissi, r. Salghi. Study inhibition corrosion of steel c38 mid 2.0m h3po4 of the 8-hydroxy quinoleine.
- PP100. ID243:** R. Nabah, H. Lgaz, M. Larouj, F. Benhiba, M. Galai,M .Ouakki,M. Cherkaoui, H. Oudda. Etude Des Paramètres Thermodynamique De L'inhibition De La Corrosion Du Fer blanc Par Huile Essentielle Niaouli En Milieu Neutre
- PP101. ID247:** A. Hamadi, N. Yeddou-Mezenner, H. Kais, A. Lounis, F.Atmani. Basic dye biosorption onto cacao peel: Equilibrium and Process design
- PP102. ID9:** A. Bouoidina, M. Chaouch, M. Taleb, A. Lahkimi, F. El-Hajjaji. Essential oil of Fenouil bulb: an effective corrosion inhibitor on mild steel immersed in hydrochloric medium
- PP103. ID251:** Zakaria El Haddad, Othmane Bendaou, Larbi El Bakkali. The Effect of Thermal Cycling Loading on Life Prediction of Solder Joint in BGA Packaging Using Finite Element Method
- PP104. ID254:** A. Hamouda, A. Asroun, H. Bella, H. Khelafi. Modeling the Plastic Shrinkage of Concrete in a Hot Climate
- PP105. ID255:** E. M. Chaabelasri, A. Abakouy, A. Amahmouj, N.Salhi, I. Elmahi. Confrontation of three Depth-Averaged LES models for simulation the turbulence shallow water flows around a square cylinder
- PP106. ID256:**F.Z. Bouaich, M. Taleb , Z. Rais, A. Lahkimi, S. Naamane, N.H. Mtarfi, H. Chaouki. Confection du béton à partir des eaux épurées de la ville d'Er-Rachidia
- PP107. ID257:** I.Belkorissat, S.Abbas, F.Larbi Chaht. Study of dynamic response of

Functionally graded nano plates

- PP108.** **ID258:** K. Amghar, M. A. Louhibi, N. Salhi, M. Salhi. Heat transfer augmentation in a heat exchanger tube using a square and circular blocks
- PP109.** **ID259:** I. Rami, a. Taitai, m. Bennani-ziatni. Study of the adsorption of the phenylalanine on the tricalciumphosphate apatite
- PP110.** **ID260:** H. fakhr, M. Bouassria, M. El Faydy, A. Zarrouk, A. Aouniti, , B. Lakhrissi, B. Hammouti, H. Oudda. Study inhibition corrosion of steel carbone in hcl 1m by using of new molecule derived from quinoline.
- PP111.** **ID265:** A. ZAHIRI, M.LAMSAADI, H.EL HARFI, M.KADDIRI, M.NAÏMI. Effect of magnetic field on mixed convection in a lid-driven rectangular cavity uniformly heated
- PP112.** **ID266:** Randa Chraiti, Maher Raddaoui. Traitment of wastewater of phosphate mine in M'dhilla, Tunisia, Process design, Simulated in Super Pro Designer
- PP113.** **ID269:**BOURAGBA Fatima zahra, ELHATIMI Wafaa, LAHKALE Redouane, MOUJAHID El mostafa, SABBAR Elmouloudi. Electrical and dielectric behavior of carbonates intercalated Co-Al-Layered Double Hydroxide (LDH) investigated by impedance spectroscopy
- PP114.** **ID270:** M. Fathi, S. El Youbi, B. Chafik El Idrissi. Synthèse et Caractérisation des Ciments phosphocalciques
- PP115.** **ID271:**S. Kharacha, M. Belkhaouda, L. Bazzi, L. Bammou, M. Chadili. Effect of amino acid on Corrosion and inhibition behavior of the aluminum alloy in alkaline medium
- PP116.** **ID272:** W. Elhatimi, F. Z. Bouragba, R. Lahkale, R. Sadik, A. Mortadi, M. Siniti, E. Sabbar. Dielectric and Electric Behavior of Cu-Cr Layered Double Hydroxide Intercalated with Sodium Dodecyl Sulfate Anions Using Complex Impedance Spectroscopy
- PP117.** **ID274:**F. Hattani,M.L.Bouamrani, H.Chakir. Etude des pathologies à l'origine du gonflement du béton
- PP118.** **ID276:**A. Benguit, L. Azzouz, A. Boukhelkhal, Y. Hadj aissa, M. Seyed. Durability of self-compacting concrete incorporating marble powder
- PP119.** **ID277:** H. Nasri, A. Azdimousa, K. El Hammouti, A. El Haddar. Potential suitability of neogene clays from Kert basin in ceramic application (North Eastern Rif, Morocco)
- PP120.** **ID283:** A. Abidi, a. Demehati, m. El qandil. GIS and geotechnical mapping of expansive soil in Taza city (Morocco)
- PP121.** **ID284:** M. Belkadi, R. Chaid, A.Perrot, N .Saoudi. Effect of the glass powder on the caractéristiques of high-performance concretes
- PP122.** **ID286:** M. Seghiri, D. Boutoutaou, A.Kriker, M. I.Hachani. Study of a Composite Material Based on Dune Sand
- PP123.** **ID289:** Rachid Mahy, BoufeljaBouammali, Abdelkader Oulmidi, Allal Chellioui, Daniel Derouet. Synthesis and Photochemical Study of Derivatives éthyle α -cyano-cinnamate
- PP124.** **ID290:**k. Amghar, M. A. Louhibi, N. Salhi, M. Salhi. Effect of the subdivision of obstacles on the forced convection heat transferin a horizontal channel
- PP125.** **ID293:**M. Lakhlifi, O. El rhaouat, M. Najy, D. Belghyti et K. El kharrim. SelectionCriteria of the SewageTreatment Plants in Marocco
- PP126.** **ID294:** LARBI CHAHT Fouziaa, Abbas Soufiane, BELKORISSAT Ismahene.

Bending and buckling analyses of functionally graded material (FGM) size-dependent nanoscale beams

- PP127.** **ID295:** R. El Alaoui, H. Mounir, B. El Mostapha, A. El Marjani. Theoretical Study to Calculate the Vibration Modes of a Wind Turbine Blade with a New Composite Material.
- PP128.** **297:** D. Jeroundi, H. Elmsellem, S. Chakroune, B. Hammouti, R. Idouhlic, E. M. El Hadrami, A. Ben-Tama, M. Oudani, Y. Ouzidan, Y. KandriRodi. 4,5-(ALKYLTHIO)-1,3-DITHIOL-2-THIONE as a potential inhibitor for corrosion of mild steel in 1 hcl solution
- PP129.** **ID298:** A. El Haddar, A. Azdimousa, I. E. El Hassani, H. Nasri, M. El Ouahabi, N. Fagel Mineralogical and physico-chemical characterizations of bentonite: Had-Beni-Chiker area, northeastern of Morocco
- PP130.** **ID300:** H. Loukili, N. Saidi, M. Ramdani, F. Yousfi, K. Azzaoui, A. Lamhamdi. Adsorption of copper using hydroxyapatite in the presence of Opuntia cladodes pectin from Morocco
- PP131.** **ID302:** m. Lamsaadi, m. Naïmi, m. Kaddir, h. El harfi, m. Hasnaoui. Analytical and Numerical Study of Hydrodynamical Boundary Conditions effect on Natural Double-Diffusive Convection in a Shallow Horizontal Rectangular cavity uniformly heated and salted from the side
- PP132.** **ID303:** S. Ouajdi, F. Moufekkir, A. Mezrhab, M. Daumas. Effect of the Reynolds number on the weakly compressible anisothermal Poiseuille flow in the channel
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