



THE SECOND INTERNATIONAL CONFERENCE ON MATERIALS & ENVIRONMENTAL SCIENCE

NEW MATERIALS FOR SUSTAINABLE ENERGY DEVELOPMENT

Scientific Program

Hôtel Melia - Saidia 26-28 April 2018

General Program of the ICMES 2018 Conference

Thursday, april 26

Morning	
08:00 - 09:00	Welcome and Registration
09:00 – 09:30	Introductory presentation & start of the Scientific program of ICMES'18
09:30 – 11:00	Plenary Conference 1 Prof. Hiroki Oshio, Japan Plenary Conference 2 Prof. Afilal Mohamed Elamin, Morocco Plenary Conference 3 Prof. Mumtaz Ahmad Quraishi, India
11:00 – 13:00	First session: Organic, Inorganic and Nanomaterials
	Second session: From Natural Products to their Biotechnological Application
	Third session: Water, Pollution and Environnement
13:00	Lunch
Afternoon	
14:30 – 16:00	Plenary Conference 4 Prof. Noureddine Chihib, France Plenary Conference 5 Prof. Mama Elrhazi, Morocco Plenary Conference 6 Prof. Taibi Ben Hadda, Morocco
16:00 – 18:30	First session: Organic, Inorganic and Nanomaterials
	Second session: From Natural Products to their Biotechnological Application
	Third session: Water, Pollution and Environnement
18:30 – 19:00	Poster Session I

Friday, april 27

Morning	
08:30 – 10:00	Plenary Conference 10 Prof. Yann Garcia, Belgium Plenary Conference 11 Prof. Kamel Boukheddaden, France Plenary Conference 12 Prof. Ahmed Mazzah, France
10:00– 11:30	First session: Organic, Inorganic and Nanomaterials
	Third session: Water, Pollution and Environnement
	Fourth session: Renewable Energies and Sustainable Development
11:30 – 13:00	First session: Organic, Inorganic and Nanomaterials
	Third session: Water, Pollution and Environnement
	Fourth session: Renewable Energies and Sustainable Development
13:00	Lunch
Afternoon	
14:30 – 16:00	Plenary Conference 13 Prof. Emeka E. Oguzie, Nigeria Plenary Conference 14 Prof. Mohamed Siaj, Canada Plenary Conference 15 Prof. Abderrazak Douhal, Spain
16:00 – 18:00	First session: Organic, Inorganic and Nanomaterials
	Third session: Water, Pollution and Environnement
	Fifth session : Electrical Enigneering and Physics Simulations
18:00 – 18:40	Official Opening Ceremony ICMES'18
18:40 – 20:10	Plenary Conference 7 Prof. Lutz F. Tietze, Germany Plenary Conference 8 Prof. _Ángel Ríos, Spain Plenary Conference 9 Prof. Badr Ikken, Morocco
20:10	Poster Session II

Saturday, april 28

Morning	
08:30 - 10:00	Plenary Conference 16 Prof. Mourad Errasfa, Morocco Plenary Conference 17 Prof. Mohammed Eddaoudi, Saudi Arabia Plenary Conference 18 Prof. Charaf Jama, France
10:00 - 11:00	First session: Organic, Inorganic and Nanomaterials
	Fifth session : Electrical Enigneering and Physics Simulations
	First session: Organic, Inorganic and Nanomaterials
11:00 – 11:30	Poster Session III
11:30 – 13:00	First session: Organic, Inorganic and Nanomaterials
	Second session: From Natural Products to their Biotechnological Application
	Third session: Water, Pollution and Environnement
13:00	Closing Ceremony

Detailed Program of the ICMES 2018 Conference

Thursday, april 26

08:00 - 09:00	Welcome and Registration of participants
09:00 - 09:30	Introductory presentation & start of the Scientific program of ICMES'18
09:30 - 11:00	Plenary Conference Prof. Hiroki Oshio, Japan Plenary Conference Prof. Afilal Mohamed Elamin, Morocco Plenary Conference Prof. Mumtaz Ahmad Quraishi, India Chairman: Prof. A. RIOS, E.E. BOUDOUTI & Z. IRZI
11:00 - 13:00	FIRST SESSION: ORGANIC, INORGANIC AND NANOMATERIALS (Room 1)
	Chair: Prof. M. TALEB & R. SALGHI
	CO1. ID100: Sana Ijaz, Muhammad Fahad Ehsan, Muhammad Naeem Ashiq, Synthesis of nanocomposites and their applications related to environment and energy CO2. ID1277: Mohamed El-Massaoudi, Houria Benaissa, Yann Garcia, Smaail Radi, New crystal design of a series of complexes and coordination polymers based on pyrazole-carboxylic acid ligands CO3. ID1311: Houria Benaissa, Mohamed El-Massaoudi, Smaail Radi, Yann Garcia, Structural and spin crossover studies of coordination compounds based on 4H-1,2,4-triazole derivatives and pyrazole carboxylic acids CO4. ID103: L.H. Omari, L. Hajji, R. Moubah, H. Lassri, M. Haddad, H. Lemziouka, Structural, optical and electrical properties of 0.97(PbTiO₃)-0.03(LaFeO₃) solid solutions CO5. ID104: R.El Ati, C.El Abiad, S.Radi, M.Elkodadi1, T.Ben Hadda, R.Touzani, Biomimetic oxidation of catechol employing complexes formed in-situ with Bi-sallenes ligands and metallic salts CO6. ID109: Abderrazak Aberkouks, Soufiane EL Houssame, Larbi EL Firdoussi, Mustapha Ait ali, Ecological oxidation of simple and terpenic olefins catalyzed by Co-Ag supported on ZnO CO7. ID113: Naoual Al armouzi, Mustapha Mabrouki, Noureddine Kouider, Effect of annealing temperature on the structural, physical, chemical, and wetting properties of copper oxide thin films CO8. ID119: Belabed Z, Tounsi A, Bég , O.A, Effect of micromechanics models on bending and free vibration of functionally graded beams CO9. ID120: A. Amkassou, H. ZGOU, S. Bousaidi, New dyes for DSSC containing bridged thienylen-phenylene: a theoretical investigation CO10. ID121: Mousa Al-Noaimi, Ayman Hammoudeh, Ruthenium (II) diamine complexes incorporating azoimine ancillary ligands. Synthesis, spectral, crystal structure and DFT calculations and catalytic activity in the hydrogenation of α,β-unsaturated aldehyde CO11. ID123: Asmaa El Khouri, Mohammed Elaatmani, Abdelouahad Zegzouti, Francesco Capitelli, Structural characterization of pure and doped Tricalcium phosphates prepared by solid state method CO12. ID126: Elhachmia Ech-chihbi, R. Salim, H. Oudda, F. El Hajjaji, M. Taleb, Investigation of corrosion inhibition effect of imidazopyridine derivatives as inhibitors on carbon steel in molar hydrochloric acid media

	SECOND SESSION: FROM NATURAL PRODUCTS TO THEIR BIOTECHNOLOGICAL APPLICATION (Room 2)
	Chair: Prof. M. RAMDANI & M. SFAIRA
11:00 - 13:00	CO13. ID201: Chbani.A, Salim.D, Al Alam.J, De Caro.P, The effect of the Spinaciaoleraceaextract on the control of the green mold “Penilliumdigitatum” at the post harvested citrus CO14. ID209: M.farssi, Said gharby.A. Laknifli R. N. Saffaj, Mamouni, Valorization of fish waste oil Monitoring the effect of temperature on the quality of refined fish waste oil during discoloration CO15. ID210: M.farssi, Said gharby.A. Laknifli R. N. Saffaj, Mamouni, Valorization of fish waste oil. The effect of temperature on the oxidation of refined fish oil and co unrefined CO16. ID211: Sanaa Elhamidi, Redouan Hammal, Mhamed Sadiq, Ahmed Benharref, Mohamed Abdenouni et Noureddine Barka, A theoretical study of the nitration aromatic substitution reactions of thymol and carvacrol CO17. ID215: K. Charif, I. Mzabri, M. Chetouani, L. Khamou, N. Kouddane. A. Berrichi, Germination test of some turfgrass species used in the green sites in eastern Morocco CO18. ID222: M.Chetouani, A.Aamar, I.Mzabri, N.Kouddane, A.Berrichi, Morpho-physiological and biochemical responses of Rosemary (<i>Rosmarinus officinalis</i>) to salt stress CO19. ID223: Oualcadi Yassine, Berrekhis Fatima, Sebban Med Faouzi, Optimization of microwave-assisted Soxhlet extraction of polyphenols, flavonoids and tannins obtained from Moroccan pomegranate peels: Modeling and optimization of the process using the response surface methodology RSM CO20. ID226: Charfi S, Boujida N., Abrini J., Senhaji N. S, Study of chemical composition and antibacterial activity of Moroccan Thymbra capitata essential oil and its possible use in orange juice conservation CO21. ID235: El amrani Soukaina, El OualiLalami Abdelhakim, Ezzoubi Yassine, Bouslmati Rabia, Lairini Sanae, Comparative study between two plants exported from Madagascar (<i>Cinnamomumzeylanicum</i> and <i>Eugenia caryophyllus</i>): antioxidant and antibacterial activities CO22. ID236: Ahlam Sayout, Abderrahmane Romane, Variations in organic and mineral contents of five <i>Lavandula</i> Species from Morocco
	THIRD SESSION: WATER, POLLUTION AND ENVIRONNEMENT (Room 3)
	Chair: Prof. K. HABOUBI & M. EL GHAZI
11:00 - 13:00	CO23. ID218: Hayat Bouchoum, Mohamed Tahiri, DouniaBenmoussa, Amane Jada, Omar Cherkaoui, A new chelating acrylic fibers for chromium ion removal CO24. ID301: Bessa Ismail, A. Makaoui, A. Agouzouk, M. Idrissi, K. Hilmi et M. Afifi, Seasonal Variability of the ocean mixed layer depth depending on the Cape Ghir filament and the Upwelling in the Moroccan Atlantic coast CO25. ID305: Mohammed Errouame, Mahacine Benali, Mahacine Amrani, Life cycle assessment in Manufacturing Process of a Headrest in Morocco CO26. ID306: Hasna Elmontassir, Younes Karhat, Khadija El Falaki, Mustapha Afdali, Najia Gouzouli, Treatment of a dye and a textile rejection by adsorption on sludge from drinking water treatment CO27. ID309: M.Alla, M. L. Elhafiany, E.K. Gharibi, the thermodynamic study of the desulfurization process of phosphogypsum CO28. ID380: L. Bougarne, M. Ben Abbou, M. El Haji, H. Bouka, Consequences of surface water eutrophication: remedy and environmental interest

	CO29. ID313: M. Ouakk, M. Rbaa, M. Galai, B. Lakhrissi, E. H. Rifi, M. Cherkaoui, Electrochemical evaluation of novel imidazole derivatives as corrosion inhibitors for mild steel in 0.5 M H₂SO₄ CO30. ID315: Rajae Salim, E. Ech-chihbi, H. Oudda, F. El-Hajjaji, M. Taleb, Electrochemical and theoretical evaluation of new imidazopyridine derivatives as a corrosion inhibitors for carbon steel in Hydrochloric acid solution CO31. ID318: Merah Aissa, Noureedine Abdelkader, Modelling of reactive pollutants dispersion in a street canyon CO32. ID319: A.Ait Elghazi, H. Rhinane, A.Bensalmia, Contribution of the thermal infrared band in monitoring the spatio-temporal change in water surface temperature over the El Massera dam area between 1987 and 2008
13:00	Lunch
14:30-16:00	Plenary Conference Prof. Noureddine Chihib, France Plenary Conference Prof. Mama Elrhazi, Morocco Plenary Conference Prof. Taibi Ben Hadda, Morocco Chairman: Prof. SOLHE ALSHAHATEET, C. JAMA & R. TOUZANI
	FIRST SESSION: ORGANIC, INORGANIC AND NANOMATERIALS (Room 1) Chair: Prof. M. EBN TOUHAMI & A. MAZZAH
16:00-18:30	CO33. ID129: A.Ed-daoui, M.Benelmmostafa, M.Dahmani, Creep of the agarose gel CO34. ID130: Asmae Saady, M.Taleb, K. Ismaily Alaoui, A.Mahfoud, A.El Biache, Experimental and Theoretical Tools for corrosion inhibition studies for mild steel in hydrochloric acid Medium by new Indanones derivatives CO35. ID133: K. Alaoui, Y. El Kacimi, M. Galai, H. Serrar, R. Tourir, M. Ouakki, S. Kaya, C. Kaya, S.Boukhris, M. Ebn Touhami, New carboxylate derivatives: correlation between corrosion inhibition efficiency and chemical structure CO36. ID134: Y. El Kacimi, R. Tourir, M. Galai, K. Alaoui, N. Dkhireche, M. EbnTouhami, Micro-structural effects on the corrosion resistance of mild steels in industrial pickling hydrochloride acid CO37. ID136: A. Bouoidina, M. Chaouch, M. Taleb, A. Lahkimi, F. El-Hajjaji, Towards a deeper understanding of the anticorrosive properties of hydrazine derivatives in acid medium CO38. ID139: Chaouki Sadik, Ahmed Manni, Ayoub Aziz. Abdeslam El Bouari, Iz-Eddine El Amrani El Hassani, Ceramics materials from low grade magnesite CO39. ID144: Sara Chaouf, Hassan Amhamdi, Soufian El Barkany, Issam Jilal, Chahid Zannagui, Hussein El Ouarghi, Abderahmane El Idrissi, Synthesis and characterization of Cellulose-Acrylamide derivatives Elaborated in Alkali Medium usable in water treatment CO40. ID1132: A. Mouadili, E. H. El Boudouti, Magnonic demultiplexer based on electromagnetic induced transparency CO41. ID150: A. Salhi, S. Sayouri, L.H. Omari, A. Alimoussa, L. Hajji, L. Kadira, Impedance spectroscopy analysis of Ca doped BaTiO₃ ferroelectric ceramic manufactured with a new synthesis technique CO42. ID151: S. Aourabi, M. Sfaira, M. Ebn Touhami, F. Mahjoubi, Evaluation of antioxidant and anticorrosion activities of extract of Ammi visnaga

	CO43. ID155: Bishir Usman, Hasmeriya Maroof, Hassan H. Abdalla, Madzlan Aziz, QSAR and Theoretical Evaluation on the Inhibition effect of Some thiophene Derivatives for the Corrosion of mild in Acidic Media CO44. ID157: W. Ahmina, M. El Moudane, M. Zriouil, M. Cherraj and M. Taibi, Fabrication of K₂O–MnO–P₂O₅ glasses for chemical and mechanical applications CO45. ID1279: M. Elazzouzi, K. Haboubi, M.S. Elyoubi, Enhancement of electrocoagulation-flotation process for urban wastewater treatment using Al and Fe electrode: techno-economic study
16:00-18:30	SECOND SESSION: FROM NATURAL PRODUCTS TO THEIR BIOTECHNOLOGICAL APPLICATION (Room 2)
	Chair: Prof. A. SOULAYMANI & T. BEN HADDA
	CO46. ID238: N. El Amri, F. Errachidi, A. Bour, R.Chabir, Characterization of Moroccan raw and processed caperberries CO47. ID240: Nacera Tadjine, Samah Lakehal, Maria Stella Bradea, Antimicrobial and antioxidant activities of two species essential oils growing in Medea (Algeria): Lentisque Pistachio (<i>Pistacia lentiscus</i>) and Geranium rosat (<i>Pelargonium graveolens</i>) CO48. ID242: F. Moussaid, A. El Barnossi, A. Iraqi Housseini, Screening and selection of new microbial anti-candidiasis CO49. ID244: H. Erraji, M. A.Afilal, Moroccan invasive weed seeds survival during anaerobic digestion CO50. ID249: E. Loukili, F. Yousfi, M. Ramdani, P. Imbimbo, G. Petruk, D. Maria Monti, M. Bouhrim, M. Bnouham, Cytotoxic Activity of <i>opuntia dillenii</i> extracts from Morocco CO51. ID250: S. Hseini, H. Zitouni, M.S. Kahouadji, N. Touil et A. Kahouadji, Ethnobotanical study of medicinal plants for cosmetic purposes in the Temara city (Morocco). CO52. ID251: A. Kahouadji, L. Kafou, M. Mdakhri-Alaoui, M.S. Kahouadji et S. Hseini, Ex-situ conservation of medicinal flora: case of the botanical garden of Rabat (Morocco) CO53. ID253: Abdelilah Marsoul, Abdellatif Boukir, Mustapha Ijjaali, Extraction by maceration of natural organic dyes from 3 types of plant material traditionally used as a dyestuff in textile and leather tanning: IR Spectroscopy Analysis CO54. ID254: Saida Aarab, Amin Laglaoui, Mohammed Bakkali, Abdelhay Arakrak, Some Characteristics of Phosphate Solubilizing Rhizobacteria as an Ecological Strategy for Sustainable Agriculture CO55. ID255: Mohamed. Beghalia, Said. Ghalem, Hocine. Allali, Study in vitro of calcium oxalate crystallization in present nature product

	THIRD SESSION: WATER, POLLUTION AND ENVIRONNEMENT (Room 3)
	Chair: Prof. M. SABAA & Prof A. CHBANI
	CO56. ID324: Zegaoui Omar, El Mragui Abderrahim and Daou Ikram, Synthesis, characterization and photocatalytic properties under visible light of doped and co-doped TiO₂-based nanoparticles CO57. ID332: Imane Touarssi, I. Mourtah, Z. Habibi, T. El Jaddi, Y. Chaouki, M. Hlaibi, Extraction and recovery of vanadium from acidic environments across polymer inclusion membranes containing one of the extractive agents: Tris (2-aminoethyl) amine or nitrilotriacetic acid CO58. ID333: Chaaraoui F, Benziane A, Bendraoua A, Urban's waste water analysis and it's effect on the area of "Great Oran's Sabkha" CO59. ID336: Z. Izghri, G.Enaime, M.Louarrat, B.Rezki, A. Yaacoubi, L. El Gaini, A.Bacaoui, Optimization of advanced oxidation process for the treatment of olive mill wastewater CO60. ID337: M'hamed AHARI, Laurent MAZEAS, Nathalie TOUZE-FOLTZ, Quantification of the sorption of chlorophenolic compounds on the geosynthetic clay liners & an HDPE geomembrane CO61. ID341: Lamiaa Mouzgui, Hakima Zidane, Nor-eddine Rezzoum, Ali Srairi, Abdelmjid Dridi, Najib Charouki & Ahmed Errhif, Environmental impact on the biodiversity of coastal resources in the Moroccan Mediterranean region (between Fnideq and Saidia) CO62. ID343: F. Smakho, H. Mouadili, El H. Atmani, K. Touaj, M. Hlaibi, Polymer inclusion membrane for the facilitated extraction of sugars: Parameters and mechanism CO63. ID344: Mokhtari Ouafae, El Halouani Hassan, Kamal Merghem Imade Hamdani, Lahrach Abderrahim, Interest of the use of wastewater in industrial plants 'energy value'. Case of <i>Jatropha curcas</i> CO64. ID357: Y. Chaouqi, R. Ouchni, A. Jada, O. Cherkaoui, M. El Bouchti, M. Hlaibi, New polymer inclusion membrane containing NTA as carrier for the recovery of chromium and nickel from textiles wastewater CO65. ID362: N. El Khodrani, S. Omrania, A. Zouahri, A. Douaik, H. Iaaich, A. Yahyaoui, and M. Fekhaoui, Spatial Distribution and Mapping of Heavy Metals in Agricultural Soils of the Sfafa region (Gharb, Morocco) CO66. ID363: S. Omrania, N. El Khodrani, A. Zouahri, A. Douaik, H. Iaaich, M. Lahmar, and S. El Hajjaji, Evaluation of the Groundwater Quality of the M'nasra, Kenitra (Morocco) CO67. ID369: Souad Abdellaoui, Hicham Masski, Imane Tai, Hassan El Halouani, Feeding habits and trophic relationships among bottom fish species of Moroccan Atlantic CO68. ID374: A. Nouayti, D. Khattach, M. Hilali, N. Nouayti & Morad Arabi, Contribution to the hydrochemical study of aquifers of the High Guir Basin (Oriental High Atlas - Morocco)

16:00-18:30

	Poster Session I
	Chair: Y. EL OUADI & H. ELMSELLEM
	CP1.ID105: O. Rahmani, B. Bouzid, A. Guibadj, Extraction and characterization of chitin and chitosan: applications of the crosslinked chitosan in the adsorption of copper in an aqueous environment
18:30 – 19:00	CP2.ID106: A.Lehleh, A. Beghidja, C. Beghidja, R. Welter, M. Kurmoo, Synthesis, structures and magnetic properties of dimeric copper and trimeric cobalt complexes supported by bridging cinnamate and chelating phénantroline CP3.ID110: A.Titi, A.Titi, R. Boyaala, R. El Ati, Y. Kaddouri, Eb. Youssefi, M. El Kodadi and R. Touzani, Study of the catalytic properties of copper (II) complexes prepared in-situ with monodentate ligands for the oxidation of catechol CP4.ID116: Boursas Fawzia, Fadila Berrah, Synthesis, Crystal structure, Spectral studies and Hirshfeld Surface Analysis of p-phenylenediammonium di(hydrogenesulfate) CP5.ID117: Boursas Fawzia, Fadila Berraha, Structural and Vibrational spectral investigations of p-phenylenediammonium di(hydrogenesulfate) by FTIR, FT-Raman and Hirshfeld Surface Analysis CP6.ID122: N.S.Labidi, Theoretical assessment of static and dynamic polarizabilities of single-walled carbon nanotubes: Semi-empirical PM6 study CP7.ID137: A. Bouoidina, M. Chaouch, M. Taleb, A. Lahkimi, F. El-Hajjaji, Experimental and quantum chemical study on the inhibition of mild steel corrosion by two hydrazine derivatives CP8.ID146: Manoj Kumar Dhiman, Munna Ram, Sulaxna Sharma, Neetu Sharma, Vakul Bansal and Awanish Sharma, Corrosion and Tribological Properties of Electroless Ni-P-CNF Nanocomposite Coatings CP9.ID149: I.Merimi, H. Oudda, Y. El Ouadi, L.El Ouasif, M. El ghouli, M. Guenbour, H.Lgaz, R.Touzani, B. Hammouti, new derivative of 2-mercaptobenzimidazole as Corrosion Inhibitors of Carbon Steel in Hydrochloric Acid Media: Electrochemical, PZC and Monte Carlo simulations studies CP10.ID159: L. Boudad, M. Taibi, A. Belayachi, M. Abd-Lefdil, Structural, spectroscopic, and dielectric study of SmFe_{0.5}Cr_{0.5}O₃ perovskite. CP11.ID160: S.Abadi, J. Aride, K.Benkhouja, M.Haddad, M.Taibi, Structural, spectroscopic and magnetic investigation of crystallized glasses Na₂Pb_{1-x}Cu_xP₂O₇ CP12.ID163: Fazia Derridj, Amal benzai, Imane Idris, Henri Doucet, Palladium-catalyzed direct arylation using free NH₂ substituted thiophene and pyrazole derivatives CP13.ID166: El. Chaieb, A. Tahani, Inhibition of the corrosion of steel in 1 M HCl by eugenol derivatives CP14.ID168: R. Kacimi, T. Abram, L. Bejjit, M. Bouachrine, New organic molecular based on Bis-Dipolar Diphenylamino-Endcapped Oligo Aryl Fluorene application for organic solar cells CP15.ID171: A.El Mansouri, M.Zahouily, H.B.Lazrek, An efficient and selective N1-Alkylation of pyrimidines CP16.ID173: A. Elyaktini, A. Lachiri, M. Zertoubi, M. Azzi, M. El Faydy, B. Lakhrissi, M. El Azzouzi, A. Zarrouk, Corrosion inhibition properties of new hydroxyquinoline derivative: Electrochemical, theoretical and Monte Carlo simulation studies CP17.ID175: Nouria.Bouchikhi, Lamia. Alachaher-Bedjaoui and U. Maschke, Effect of the network structure on the swelling and electro-optical properties of acrylate elastomers, in presence of liquid crystal solvents CP18.ID177: Amal Benzai, Fatiha Abdelmalek, Fazia Derridj, Imane Idris, Jean-Francois Souléa, Henri Doucet, Synthesis of fluorinated π conjugated oligomers through palladium catalyzed iterative C (sp²)-H bonds Arylations

- CP19.ID180:** A. Kherbache, H. Bouriche, S. kada, S. Laouicha and A. Senator, Antioxidant activities of aqueous extract of *Anacyclus clavatus*
- CP20.ID183:** Nawal Bayou-Khier, Mohamed Amari, Mokhtar Fodili, Synthesis of New Molecules of Benzimidazoles
- CP21.ID190:** Yassmina Angar, Nacer-Eddine Djelali & Salima Kebbouche-Gana, New crosslinked calcium alginates material applied for the removal of ammonium ions from wastewater
- CP22.ID194:** A. S. Bouchikhi, Impact of Shear Lag on interfacial stresses of metallic beam reinforced by FRP composite plate
- CP23.ID197:** Nour ElHouda Mtarfi, S. Naamane, Zakia Rais, Mustapha Taleb, Fatimzahra Bouaich, Improving the economic and physic-mechanical properties of cement by using the milling agents
- CP24.ID1101:** A. Lachiri, A. Elyaktini, M. Zertoubi, M. Azzi, Z. Benzekri, H. Serrar, S. Boukhris, H. Zarrok, A. Zarrouk, DFT and experimental studies on the inhibition potentials of ethyl 7-cyano-2,6-dioxo-3,8-di-p-tolyl-2,3,4,6-tetrahydro-1H-pyrido[1,2-b][1,2,4]triazine-9-carboxylate on carbon steel corrosion in hydrochloric acid
- CP25.ID1102:** A. Lachiri, A. Elyaktini, M. Zertoubi, M. Azzi, Z. Benzekri, H. Serrar, S. Boukhris, H. Zarrok, A. Zarrouk, Corrosion inhibition studies of new triazine derivative on steel in 1 HCl solution acid
- CP26.ID1105:** Abdelkarim Chaouiki, Hassane Lgaz, Rachid Salghi, Shehdeh Jodeh, Hassan Oudda, Investigation of new isonicotinohydrazide derivatives as corrosion inhibitors for carbon steel in acidic medium: Electrochemical, DFT and Monte Carlo simulation studies
- CP27.ID1110:** Anissa Leshaf, Naima Hamoudi and Kamel Benmansour, Decolorization of acidol red 2BE-NW dye in aqueous solutions using CMC-prepared nanoscale zero-valent iron
- CP28.ID1114:** A. Bensedira, N. Haddaoui, R. Doufnoune, O. Meziane, N. S. Labidi, Kinetics and thermodynamic studies of adsorption process of methylene blue using PANI/SiO₂ nanocomposite
- CP29.ID1117:** Hasna Bouchareb, Sabrina Benmebarek, Synthesis, crystal structure and magnetic properties of bis(N,N-dimethylformamide)tetra(μ₂-thiopheneacetato-O,O')-dicopper(II)
- CP30.ID1119:** R. Nabah, F. Benhiba, Y. Ramli, M. Ouakki, M. Cherkaoui, H. Oudda, A. Zarrouk, Electrochemical study of adsorption and corrosion inhibition of Organic compound PID on mild steel in acidic solution
- CP31.ID1123:** Soumaya Hachani, Chahrazed Hamia, Amar Djeridane, Mohamed Yousfi, Effects of extraction solvents on phenolic contents and antioxidant activities of five date cultivars growing in Algeria
- CP32.ID1125:** Nacer E. Elkadri E, Jamil Toyir, Design of covers with capillary barrier effect for protection of mine tailings and landfill sites
- CP33.ID1127:** Nouara Benmessaoud, Tewfik Bouchaour, Ulrich Maschke, Study of diffusion of isotropic solvents into polymer network from swelling measurements
- CP34.ID1131:** Ghemati Djamila, Aliouche Djamel, Study of synthetic dyes adsorption onto poly(vinyl alcohol)/glutaraldehyde/β-cyclodextrin polymer membranes
- CP35.ID1133:** Hasna Bouchareb, Sabrina Benmebarek, Synthesis, crystal structure and magnetic properties of bis(N,N-dimethylformamide)tetra(μ₂-thiopheneacetato-O,O')-dicopper(II)
- CP36.ID1137:** Ossama Oulhakem, Samir Briche, Salah. Rafqah, Mohammed Belaiche, Lahoucine Bahsis, Elmountassir Elmouchtari, Photocatalytic degradation of pharmaceutical products by decatungstate based photocatalyst
- CP37.ID1138:** Oussama Jhabli, Samir Briche, Mohammed Belaiche, Mohammed Lacham, Abdelhamid EL Acham, Yassine Redouany, Development of Moroccan expanders for

lead-acid battery for starting automotive

- CP38.ID1140:** Fakih Lanjri Asmaa, El Cadi Asmae, El Cadi Hafssa, Brigui Jamal, Optimization of extraction of polyphenols of citrus peels ionized Moroccan and stored under refrigeration.
- CP39.ID1152:** O. Mommadi, A. El Moussaouy, M. El Hadi, A. Nougauoui, Excitonic properties in an asymmetric quantum dot nanostructure under combined influence of temperature and lateral hydrostatic pressure
- CP40.ID1157:** A. Thoume, M. Zertoubi, A. Elmakssoudi, D. Benmessaoud Left, K. Sadik, A. Aboulmouhajir, M. Dakir, M. Zahouily, M. Azzi, Experimental and theoretical studies of amino phosphonates as new and effective corrosion inhibitors for carbon steel in 1M HCl solution
- CP41.ID1163:** F. Belalia, N Bouchiba, M. Hamadouche, A Novel Approach for the Microwave-assisted synthesis of 5-substituted 1H-Tetrazoles
- CP42.ID1168:** Fazia Derridj, Amal benzai, Imane Idris, Henri Doucet, Palladium-catalyzed direct arylation using free NH₂ substituted thiophene and pyrazole derivatives
- CP43.ID1176:** AbdelwahidAssaidi, Mostafa Ellouali, Hassan Latrache, HafidaZahir, Mohammed Timinouni, El Mostafa Mliji, Effect of water hardness on the survival and adhesion of Legionella pneumophila to Surfaces
- CP44.ID1178:** Fellah Amel, Harek Yahia, Imane Ichchou, Harek Houria, Benmansour Yamina and Larabi Lahcene, Synthesis and anti-corrosion research of 1-(4-dimethylaminobenzylidene)-2-(2-hydroxybenzylidene) hydrazine
- CP45.ID1181:** Bessila Souad, Abdelhamid Zerdaoui, Djamal Edinne Akretche, Electroleaching of a zinc ore in the presence of potassium permanganate
- CP46.ID1185:** M. EL Alouani, S. Alehyen, M. Zerzouri, M. EL Achouri, M. Taibi, Remediation of Water Contaminated with Organic Pollutants by Moroccan Natural Clay

Friday, april 27

08:30 – 10:00	Plenary Conference Prof. Yann Garcia, Belgium Plenary Conference Prof. Kamel Boukheddaden, France Plenary Conference Prof. Ahmed Mazzah, France Chairman: Prof. A. ALDHEIBI, A. NOUGAOUI & A. ASEHRAOU
10:00 – 11:30	FIRST SESSION: ORGANIC, INORGANIC AND NANOMATERIALS (Room 1)
	Chair: Prof. A. AOUNITI & M. HAMDANI
	CO68.ID164: Mohamed Aklalouch, José Manuel Amarilla, Ismael Saadoune, Spinel structure positive electrode material with huge electrochemical performances for lithium-ion batteries CO69.ID165: N. Ben Seddik, I. Raissouni, K. Draoui, A. Chraka, B. Aznag, S. Tazi, F. Chaouket, D. Bouchta, Inhibition effect of raw clay (GHASSOUL) on brass corrosion in 3%NaCl medium and influence of purification CO70.ID169: R. Kacimi, T. Abram, W. Saidi, L. Bejjit, M. Bouachrine, New organic dyes based on benzothiadiazole for photovoltaic applications Solar Cells CO71.ID170: Omar M'Hamdi, Olivier Dupuis, Mutapha Taleb, Formulation and physical and chemical characterization of a new material type PSA coating CO72.ID172: A. Elyaktini, A. Lachiri, M. Zertoubi, M. Azzi, M. El Faydy, B. Lakhrissi, M. El Azzouzi, A. Zarrouk, 5-(((4-chlorobenzylidene)amino)methyl)-8-hydroxyquinoline –A novel inhibitor for the corrosion inhibition of carbon steel in hydrochloric acid solution CO73.ID174: Nouria Bouchikhi, Manel Bouazza, Lamia Bedjaoui- Alachaher, Ulrich Maschke, Khaldoun Bachari and Djahida Lerari, Photo-curing kinetics of hydroxyethyle acrylate (HEA): Synergistic effect of dye/amine photoinitiators systems CO74.ID191: Naous Mohamed, Farida Bouanani, Soledad Rubio Bravo, Application of oligomeric micelles-functional magnetic nanoparticles for extraction of aromatic amines from textile CO75.ID192: M. Abid, M. Belfaquir, M. Hafid, M. Taibi, Comparative study of zinc and lead addition effect on structure- properties of phosphate glasses CO76.ID196: Nour ElHouda Mtarfi, S. Naamane, Zakia Rais, Mustapha Taleb, Fatimzahra Bouaich, Importance of using inorganic additive and adjuvant in the cement industry CO77.ID1100: M. El Hadi, A. El Moussaouy, A. Nougaooui, External electric field effect on exciton binding energy in GaAs /GaAlAs cylindrical quantum dots with asymmetric axial potential CO78.ID1107: Jamal Chabbi, Oumayma Jennah, Nadia Katir, Mohamed Lahcini, Mosto Bousmina, Abdelkrim El Kadib, Self-Assembly and Controlled-Release with Sustainable, Nacre-like Functionalized Chitosan Thin Films

	FOURTH SESSION: RENEWABLE ENERGIES AND SUSTAINABLE DEVELOPMENT (Room 2)
	Chair: Prof. K. KASSMI & S. ZOUGAGH
10:00 – 11:30	CO79.ID410: Jabri Abdelkarim, The Link between Renewable Energy, CO2 Emissions and Growth in MENA Region: Linear Versus Non-Linear Approaches. CO80.ID411: Menana Guemghar, Lila Boulekbache-Akhoulouf, Khodir Madani, Valorization of artichoke waste for the recovery of antioxidants: optimization of microwave and ultrasound assisted extraction and food application CO81.ID415: Azzouni Dounia, Eloutassi Nouredine, Louasté Bouchra, Lahkimi Amal, Chaouch Mehdi, Production of the bioenergy from the industrial waste CO82.ID417: Boukhchana Yasmina, Fellah Ali, Ben Brahim Ammar, Modeling and optimization of real-solar refrigeration machines CO83.ID419: S.Talbi, K.Kassmi, R. Malek, O. Deblecker, N. Bachiri, Modelling and Validation of Heating Resistors Powered by Photovoltaic Solar Energy CO84.ID420: I. Atmane, M. Melhaoui, K. Kassmi, Z. Mahdi, S. Alexopoulos2, K. Schwarzer, H. Chayeb, N. Bachiri, System of control and supervision of the solar distiller to be installed in Douar Al Hamri (Berkane) CO85.ID421: N. EL Moussaoui, K. Kassmi, N. Bachiri, Conception and simulation of the functioning of a multi-stage solar distiller to be installed in Douar Al Hamri (Berkane) CO86.ID423: Ahmed Ziti, Bouchaib Hartiti, Hicham Labrim, Salah Fadili, Abderraouf Ridah, Bouchra Belhorma, Mounia Tahri, Philippe Thevenin, Preparation and characterization of spin coated CZTS Thin Films Elaborated by Sol Gel Method for Solar Cells Applications CO87.ID433: I. Filahi, A. El Mansouri, M. Hasnaoui, A. Amahmid, Y. Dahani, M. Alouah, Gas flow modelling inside a DCFC cathode using the lattice-Boltzmann method CO88.ID449: M. Tarfaoui, M. Nachtane, A. El Moumen, Numerical study of the structural static and fatigue strength of wind turbine blades
	THIRD SESSION: WATER, POLLUTION AND ENVIRONNEMENT (Room 3)
	Chair: Prof. M. AZZI & M.S. ELYOUBI
10:00 – 11:30	CO89.ID375: El Hajam Maryam, Idrissi Kandri Nouredine, Zerouale Abdelaziz, El Khomsi Anass, Harrach Ahmed, Adsorption of methylene blue on industrial softwood waste "Cedar" and hardwood waste "Mahogany": comparative study CO90.ID377: A. Shaim, E. Amaterz, A. Taoufyq, B. Bakiz, M. Ezahri, A. Benlhachemi, M. Galai, M. Ebn Touhami, A. Chahine, Experimental study of the corrosion inhibition of ordinary steel by glasses materials in 3% NaCl medium CO91.ID312: Afrah S, Al-Mahfadi, Mohamed Dakki, Vulnerability of Alhodidah coastal wetlands in Yemen: main socio-economic causes CO92.ID382: M. El Biriane, M. Barbach, K. Boudjellal, M. Bouabaz, A. Imad, Study of the characteristics of the constituents of a composite based on aggregates made from marine wastes CO93.ID392: Jihane Assaoui, Abdelmoula Kheribech, Zineb Hatim, Application of bentonite clay for defluoridation of water resources CO94.ID393: Fouzia Byoud, Abderrahim Dassaa, Asmaa Wakrim, Sanae El Ghachtouli, Ali Assabbane, Mohammed Azzi, Electrocoagulation treatment of food industrial dye waste using external loop airlift reactor CO95.ID519: H. Mokhlis, R. Drissi Daoudi, A. El Mansouri, M. Azzi, Selective recovery of copper from waste printed circuit boards (PCBs) using glycine solution CO96.ID1177: Abdelwahid Assaïdi, Mostafa Ellouali, Hassan Latrache, Hafida Zahir,

	Mohammed Timinouni, El Mostafa Mliji, Effect of Sodium Chloride on the survival of Legionella pneumophila CO97.ID3101: Mourabit Fouad, Boulaid Mourad, Pesticide removal in drinking water treatment using biodegradable polymer CO98.ID3102: Ouafae Boulterhcha, Imad El Mahi, Numerical modeling of flows in discovered channels by an implicit finite volume scheme CO99.ID3112: ChelliChentouf N, TirtouilMeddah A, Belgharbi A, BenfrehaTemouri H, Meddah B., In vitro chemical and antimicrobial screening of fruits and leaves extracts of Zyziphus lotus collected in North West of Algeria CO100.ID3121: Fatine Akoh, Mohamed Tahiri, Omar Cherkaoui, Synthesis and use of modified wool fibers for sulfate ions adsorption from aqueous solutions
	FIRST SESSION: ORGANIC, INORGANIC AND NANOMATERIALS (Room 1) Chair: Prof. A. CHETOUANI & A.S ELDOUHAIBI
11:30 – 13:00	CO101. ID1109: Anissa Leshaf , Naima Hamoudi and Kamel Benmansour, New modified CMC /MMT nanomaterial used in the removal of acid dye in aqueous solution CO102.ID1112: Saadia Oubaassine, Angela Köckritz, Mustapha Ait Ali, Larbi El Firdoussi , Catalytic oxidation of β-bromoalcohols derivatives of natural terpenes CO103.ID1113: Sanaa CHEMCHOUB, Miloud ELBASRI, Mehdi HALIM, Mama El Rhazi, The oxidation of methanol by a carbon paste electrode modified by para-phenylenediamine and nickel nanoparticles CO104.ID1115: D. Benmessaoud Left, M. Zertoubi, M. Azzi, New Application of plant extracts as corrosion inhibitors of reinforcement steel in carbonated concrete pore solution CO105.ID1116: Zineb Kassab, Hicham Benyoucef, Mounir El Achaby, Production of Cellulose Nanocrystals from Various Lignocellulosic Materials and its Application in Polymer Composites Development CO106.ID1118: T. Mrabti, Z. Labdouti, O. El Abouti, E.H. El Boudouti, and F. Fethi, Electromagnetically induced transparency and bound in continuum states in double Aharonov-Bohm coupled rings CO107.ID1124: Gaci .M, Fouathia. A, Numerical study of the effect of Ganghoffer Austenitic grain mesh geometry improved on TRIP results CO108.ID1128: Fatima-Ezzahra Eddaoudi, Sanaa Jennane, Soufiane El Houssame, Mohamed Tabyaoui and Brahim Boualy, A green and catalytic conversion of β-pinene oxide to perillyl alc CO109.ID148: I.Merimi, H. Oudda, Y. El Ouadi, M.Quraishi, F.Al-blewi, N.Rezki, M.Aouad, H.Lgaz, M.Messali, B. Hammouti, Improvement of Corrosion Resistance of Mild Steel in Hydrochloric Acid Medium by new Triazole derivative CO110.ID1136: Mustapha Boutamart, Samir Briche, Mohammed Belaiche, Self-cleaning glass based on sol-gel coatings CO111.ID1139: Zakaria HABIBI, H. MOUADILI, S.MAJID T. ELJADDI, I. MOURTAH, Y. CHAOUQI, M. HLAIBI, Oriented processes through functionalized polymer inclusion membranes for the facilitated extraction of Ca^{2+} and Fe^{3+} ions for the purification of oil solutions CO112.ID1141: Tarik Ainane, Fatima Khammour, Nawal Merghoub, Meriem El Abboubi, Ayoub Ainane, M'hamed El Kouali, Mohammed Talbi, Cosmetic Bio-product based on cinnamon essential oil "Cinnamomum verum" for the treatment of mycoses: preparation, chemical analysis and antimicrobial activity CO113.ID1143: N. Siragi, M. El Hadri, M.A. El IdrissiRaghni, H. Ahamdane, Sol-gel synthesis and characterization of Mn-doped Forsterite as potential ceramic pigments CO114.ID1150: Intissar Ait Lahcen, Brahim Boualy, Abdallah Karim, Synthesis of new monoarylidene from limona-ketone

	FOURTH SESSION: RENEWABLE ENERGIES AND SUSTAINABLE DEVELOPMENT (Room 2)
	Chair: Prof. M. AFILAL & M. ELHAFYANI
	CO115.ID436: A. Hallaoui, A. El Assyry, Z. Benzekri, H. Serrar, S. Boukhris, A. Zarrouk, Electronic and photovoltaic properties of [1,2-b][1,2,4]triazine derivatives for efficient dye-sensitized solar cell CO116.ID438: Mehdi Louarrat, Zaina Izghri, Abdelaziz Baçaoui, Abdelarani Yaacoubi, Joel. Blin, Luc. Martin, Optimization of conditions of thermal regeneration of activated carbon used in gold industry: application of response surface methodology CO117.ID440: Housseina Nasri, Mohamed Ammar Abbassi and Chaouki Ali, Physico-chemical characterization of Tunisian Sand from the area of Sened CO118.ID442: Grari Meryem, Zoheir CifAllah, Numerical Modeling of Plasma Silicon Discharge for Photovoltaic Application CO119.ID447: J.Dardouch, M. Charia, A. Bernatchou, F. Jeffali, Study of a solar absorption refrigeration machine under Moroccan climate CO120.ID450: Abderrahim El bouazouli, Lahssen Baidder, Philippe Pasquier, Said Rhoulane, Remote sensing contribution to the identification of potential geothermal deposits: a case study of the Moroccan Sahara CO121.ID451: B. benaichi, A. Chetouanib, A. Karkria, D. Moussaida, S.E. Elqabbaja, Three-Dimensional Drift-Diffusion Model for Simulation and Investigation of Bordering Effects in Silcom Solar Cells CO122.ID414: Amal bouich, Bouchaib Hartiti, Investigation of the optical properties of CuIn(Se,S)₂ thin filmsfor photovoltaic application

11:30 – 13:00

THIRD SESSION: WATER, POLLUTION AND ENVIRONNEMENT (Room 3)	
Chair : Prof. Z. IRZI & M. MELHAOUI	
11:30 – 13:00	CO123.ID3128: M. Zerzouri, S. Alehyen, M. El Alouani, M. El Achouri, M. Taibi, The effect of aggressive environments on the properties of a low calcium fly ash based geopolymer and the ordinary Portland cement
	CO124.ID3129: Imane Mourtah, I. Touarssi, O. Kamal, Y. Chaouki, L. Lebrun, M. Hlaibi, Membrane processes for elimination and recovery of Cr(VI) and Cr(III) ions according to the facilitated extraction oriented process through a grafted polymer membrane.
	CO125.ID3133: I. Aarab, M. Bennajah, R. Elkacmi, M. Maalmi, L. N. Qadiri, R. Idchabani, Combination of cooling and dust collection systems in a sulfuric acid plant: a cooling coil and a rotary drum with sprays
	CO126.ID3137: L. El Youssfi, Choukr-Allah, M. Zaafrani, A. Hirich, H. Fahmi, A. Rami, K. Laajaj & H. El Omari, Sustainability of a cropping system under the use of unconventional water for irrigation under semi arid conditions in Morocco
	CO127.ID3138: L. El Youssfi, I. Elouadi & F. Wassar, Integrated Water Resource Management and Ethics: comparative case studies from the Maghreb region
	CO128.ID3139: S.Ben-Aazza, A.Hadfi, M. Belattar, S. Mohareb and A.Driouiche, Inhibition of scaling of potable water by the Orange Juice Concentrate
	CO129.ID230: Zakaria Ouzerbane, Abdellah El Hmaidi, Ali Essahlaoui et Abdelhadi El Ouali, Evaluation of the vulnerability to pollution of aquifers in the coastal area of Essaouira (Essaouira, MAROC)
	CO130.ID3140: G. Ghenimi, M. Ouakki, H. Barebita, T. Guedira, M. Cherkaoui, Corrosion inhibition and adsorption properties of mineral compound phosphate-bismuth on ordinary steel in 1.0 M HCL solutions
	CO131.ID3141: Aityoub Abdelaziz, Abouelfida Abdessalem, Benyaich Abdelaziz, Elmeray Mohamed, Idouhli Rachid, Koumya Yassine, Simultaneous removal of some heavy metals from the Marrakech municipal discharge: effect of pH, particle size, ratio extraction-soil solution and agitation time on the removal efficiency of pollutants
	CO132.ID3143: Kamal Essifi, Akichouh El Houssien, Abdesselam Tahani, Adsorption des tensioactifs cationiques sur la bentonite et échange ionique
	CO133.ID3144: Bouchra Wassate, Mohammed Chafi, Khadija Zaki, Hasna El Montassir, Younes Karhat, Khadija El Falaki, Optimization of Fenton's oxidation of landfill leachate using the response surface methodology
	CO134.ID3151: Omkeltoum Zidani, Mohammed Dakki, Fatima Fadil, Analytical methods used in the assessment of the physico-chemical quality of wetland water in Morocco
	CO135.ID3153: MoustaphaBelmouden, Nadia EL Mouraille, Hamid Abdany, Ali Assabbane, Treatment of Tamle's leachate by electrocoagulation
	CO136.ID3154: Nadia EL Mouraille, Moustapha Belmouden, Yahia Aitichou, Efficient of solar photocatalytic based on supported TiO2 for removal of basic dyes from water
	CO137.ID3155: Bassma Antouh, Mostafa El Qandil, The degradation of the water resources of the urban community of Fez: an economic and environmental cost
	CO138.ID3158: Handel Naoual, Behaviour of partially encased composite columns filled with slag concrete
	CO139.ID3160: H. El Boulifi, M. Ouakki, H. Barebita, T. Guedira and M. Cherkaoui, Study of corrosion inhibition of ordinary steel in 1M HCl medium by a new vitreous compound

	CO140.ID3161: Hanaa Abouljalil, Mahacine Amrani, Mohammed Errouame, Mahacine Benali, In quest of reducing the environmental impacts of wiring harness production with using LCA method CO141.ID3162: Farid Mansouri, Abdessamad Ben moumen, Kamal Belhaj, Marie-Laure Focaunnier, Marianne Sindic, Hana Serghini Caid, Ahmed Elamrani, Effect of crop season on the quality and composition of virgin olive oils from Greek and Spanish varieties grown in north-eastern of Morocco CO142.ID3165: S.Benyoussef, H. El Ouarghi, Y.Filali Zegzouti, A. Ait Boughrous, Biodiversity and groundwater ecology of two remote regions and palaeogeographical implications: the central Rif and the Tafilalet plain CO143.ID3167: I. Mzabri, M. Legsayer, K. Charif, J.Mimouni, N.Kouddane, A .Berrichi, Agro-morphological behavior of saffron under the environmental conditions of four areas in eastern Morocco CO144.ID305: Mohammed Errouame, Mahacine Benali, Mahacine Amrani, Life cycle assessment in Manufacturing Process of a Headrest in Morocco
13:00	Lunch
14:30 – 16:00	Plenary Conference Prof. Emeka E. Oguzie, Nigeria Plenary Conference Prof. Mohamed Siaj, Canada Plenary Conference Prof. Abderrazak Douhal, Spain Chairman: Prof. Y. GARCIA, R. TOUZANI & Z. IRZI
16:00– 18:30	FIRST SESSION: ORGANIC, INORGANIC AND NANOMATERIALS (Room 1) Chair: Prof. T. BEN HADDA & A. BOUYANZER
	CO145.ID111: S. Jodeh, A. R. Hasan, J. Amarah, O. Judeh, R. Salghi, H. Lgaz, W. Jodeh, Indoor and Outdoor Air Quality Analysis for the City of Nablus in Palestine: Seasonal Trends of PM10, PM5.0, PM2.5 & PM1.0 of Residential Homes CO146.ID1151: Zineb Samouh, Redad El Moznine, Omar Cherkaoui, Characterization of sisal fiber reinforced Polylactic Acid composites CO147.ID1167: A.Chraka, I.Raissouni, S.Khayar, S.Tazi, H.Douhri, F.Chaouket, D. Bouchta, Inhibition Effect of the essential oil of Thymbra capitata (L.) Cav and its extracts on The Brass Corrosion in 3%NaCl solution CO148.ID1174: Nisrine Benzbiria, Siham Echichi, Mustapha Zertoubi, Mohammed Azzi, Wafaa Qafsaoui, Study of oxygen reduction reaction on pre-reduced copper in 0,5 M NaCl CO149.ID1179: Madiha Amrani, Abdellatif Gueddida, Adnane Noual, El Houssaine El Boudouti, Yan Pennec and Bahram Djafari-Rouhani, Analysis of optomechanical coupling in triangular lattice phoxonic crystal cavities CO150.ID1188: S.Rhouat, M.S. El Youbi, F.Dimane, The effect of leachate irrigation on soil properties CO151.ID1191: Y. Hida, El. Chaieb, A. Derkaoui, A. Tahani, L. Alfarh, Study of the corrosion inhibition of heat treated titanium in a 3M HCl solution by electrochemical impedance spectroscopy CO152.ID1193: Ouahiba Belladgham, Nouria Bouchikhi, Djahida Lerari, Lamia Bedjaoui-Alachaher, Elaboration of Molecularly imprinted polymersby Non-covalent approach CO153.ID1198: Issam Jilal, Soufian ElBarkany, Zahra Bahari, Chahid Zannagui, Ola Sundman, Abderahmane El Idrissi, Mohamed Abou-Salama, Abderrahmane Romane, Hassan Amhamdi, New Benzyloxyethyl Cellulose (BEC) Crosslinked EDTA: Synthesis, Characterization and Application for Supramolecular Self-Assembling

	Nanoencapsulation of Pb (II) CO154.ID1203: N. Mechbal, Y. Karzazi, Evaluation of the anti-corrosive behavior of the aqueous extract of Daphne gnidium L leaves on mild steel in hydrochloric acid CO155.ID1235: Souheyla BOUDJEMA, Mostapha Zerruki, Abderrahim Choukchou-Braham, Synthesis of Keggin-type Ruthenium substituted tungstophosphates encapsulated into mesoporous silica pillared in clay interlayer galleries and their catalytic performance in cyclohexene oxidation CO156.ID1239: L.Fkhar, M. Hamedoun, A. El kenz, A. Benyoussef, Y. Xiao, A. Mahmoud, F. Boschini M. AitAli and O. Mounkachi, Large magnetic entropy change in Pr₂/3Sr₁/3MnO₃-CuO composite at room temperature CO157.ID1270: Virginia Moreno, Mohammed Zougagh, Angel Ríos, Analytical nanometrological approach for screening and confirmation of titanium dioxide nano/micro-particles in sugary samples based on Raman spectroscopy-capillary electrophoresis
16:00– 18:30	FIFTH SESSION: ELECTRICAL ENGINEERING AND PHYSICS SIMULATIONS (Room 2) Chair: Prof. A. RRHIOUA & B. HAJJI CO158.ID504: Abdelmoula Ait Allal, Khalifa Mansouri, Mohamed Youssfi, Mohammed Qbadou, Towards an evaluation of marine fuels for a clean and efficient autonomous ship propulsion CO159.ID505: Mankour Mohamed, Khiat Mounir, Ghomri Leila, Bessalah Mourad, Modeling and real time simulation of an HVDC link in dynamic state using RT-lab platform CO160.ID507: A. Seddoqi, D. Bakari, A. Rrhioa, B. El Kihel, F. Delaunois, Non-Destructive Testing of an Electron Accelerators Used in Oncology CO161.ID509: Hanae Azzaoui, Imad Mansouri, Bachir Elkihel, Continuous Distillation Column Fault Diagnosis based on Stationary Wavelet Transform and Fuzzy C-Means CO162.ID510: M. Zekriti, Plasmon-Induced Transparency in Waveguide-Coupled Long Range Surface Plasmon Resonance for Sensing Applications CO163.ID513: Murad Al Mugahed, Farida Bentayeb, Studying of Radon Gas Concentrations in soil Qaa Al-Hakel agricultural area ,Ibb ,Yemen CO164.ID517: M.Machichi, Y. Oulhouk, A.Rrhioa, M.Zerfaoui, D. Bakari, Simulation of the dose calculation and distribution in radiation Therapy Treatment Planning System CO165.ID518: Y. Oulhouq, M. Machichi, A. Rrhioa, M. Zerfaoui, D. Bakari, The dosimetric effects of thermoplastic masks used for immobilization of head and neck patients, on the treatment of brain and head and neck tumors for different algorithms CO166.ID1111: M. Alami, E. H. El Boudouti, B. Djafari-Rouhani, Surface acoustic waves in one-dimensional piezoelectric-metallic phononic crystal: Effect of a cap layer CO167.ID1146: Adnane Noual, Madiha Amrani, El Houssaine El Boudouti, Yan Pennec and Bahram Djafari-Rouhani, Plasmonic induced transparency in graphene-based side coupled cavities system CO168.ID1169: Zoubida Bououchma, Jalal Sabor, Hassan Aitbough, New electrical model of supercapacitorsfor electric vehicle applications
16:00– 18:30	THIRD SESSION: WATER, POLLUTION AND ENVIRONNEMENT (Room 3) Chair: Prof. M. SBAA & M. EBN TOUHAMI CO169.ID3151: Omkeltoum Zidani, Mohammed Dakki, Fatima Fadil, Analytical methods used in the assessment of the physico-chemical quality of wetland water in Morocco CO170.ID3155: Bassma Antouh, Mostafa El Qandil, The degradation of the water resources of the urban community of Fez: an economic and environmental cost

	CO171.ID3158: Handel Naoual, Behaviour of partially encased composite columns filled with slag concrete CO172.ID3160: H. El Boulifi, M. Ouakki, H. Barebita, T. Guedira and M. Cherkaoui, Study of corrosion inhibition of ordinary steel in 1M HCl medium by a new vitreous compound CO173.ID3161: Hanaa Abouljalil, Mahacine Amrani, Mohammed Errouame, Mahacine Benali, In quest of reducing the environmental impacts of wiring harness production with using LCA method CO174.ID3162: Farid Mansouri, Abdessamad Ben moumen, Kamal Belhaj, Marie-Laure Focaunnier, Marianne Sindic, Hana Serghini Caid, Ahmed Elamrani, Effect of crop season on the quality and composition of virgin olive oils from Greek and Spanish varieties grown in north-eastern of Morocco CO175.ID3165: S.Benyoussef, H. El Ouarghi, Y.Filali Zegzouti, A. Ait Boughrou, Biodiversity and groundwater ecology of two remote regions and palaeogeographical implications: the central Rif and the Tafilalet plain CO176.ID3167: I. Mzabri, M. Legsayer, K. Charif, J.Mimouni, N.Kouddane, A .Berrichi, Agro-morphological behavior of saffron under the environmental conditions of four areas in eastern Morocco CO177.ID3168: Nora Sedira, Saliha Bouranene, Treatment of wastewater by material based on dates rods CO178.ID3173: Siham El Hafiane, Lamyaa El Bassiti, Farid Faik, Treatment of leachates in the dump of the Great Agadir: Comparative Study CP47.ID399: Fatima Allalat, Khalid Brouzi, Mohammed Garoum, Physicochemical and Microbiological Characterization of Olive Mill Wastewater in order to determine the acoustic properties of a natural material based on Olive Mill Wastewater
18:00 - 18:40	Official Opening Ceremony ICMES'18
18:40 - 20:10	Plenary Conference Prof. Lutz F. Tietze, Germany Plenary Conference Prof. Ángel Ríos, Spain Plenary Conference Prof. Badr Ikken, Morocco Chairman : Prof. S. RADI, M. EDDAOUDI & A. DOUHAL
20:10	Poster Session II Chair: W. MOKHTARI & A. OURIACHI CP48.ID501: Nadira Bellili, Hocine Djidjelli, Amar Boukerrou, Badrina Dairi, The behavior of Poly (vinyl chloride) / Olive residue flour composites under Gamma irradiation CP49.ID514: Kahina Iggui, Mustapha Kaci, Mohamed Mahlous, Nicolas Le Moigne and Anne Bergeret, The Effects of Gamma Irradiation on PHBV/ Cloisite 30B Bionanocomposites CP50.ID1186: A.Bouchoucha, F.Derridj, and S.Djebbar, Antimicrobial activity of some manganese (II) and copper (II) complexes with derivatives benzoxazole ligands CP51.ID1190: Bourenane Nadjette, Hamlaoui Youcef, Study of the corrosion behavior of reinforcing steel in reinforced concrete elements CP52.ID1194: Ayoub Ainane, Redoine Benhima, El Hassan Abba, Mohammed Talbi, Sanaa Charaf, Fatima Khammour, M'hamed ElKouali, Tarik Ainane, Chemical composition and insecticidal activity of five essential oils: Citrus limonum, Cedrus atlantica, Rosmarinus officinalis, Syzygium aromaticum and Eucalyptus globules CP53.ID1202: L. Kadira, S. Sayouri, A. Elmesbahi, A. Salhi, Investigation of Complex

- CP54.ID1204:** N. Mechbal, Y. Karzazi, Comparative study of corrosion inhibitor effect in HCl 1M and H₂SO₄ 0.5 M: *Cistus monspeliensis* L (CM) as green inhibitor for mild steel
- CP55.ID1208:** Hasna Bouchareb, Sabrina Benmebarek, Synthesis, crystal structure and magnetic properties of bis(N,N-dimethylformamide)tetra(μ₂-thiopheneacetato-O,O')-dicopper(II)
- CP56.ID1210:** Hafssa El Cadi, Asmae El Cadi, Btissam Ramdan, Asmae Fakih Lanjri, Jamal Brigui, Physico-chemical study and phenolic metering of *Rubus fruticosus* of the Mediterranean zone of Morocco
- CP57.ID1212:** Khokha Mouhoubi, Lila Boulekbache-makhlouf, Khodir Madani, Optimization of Microwave Assisted Extraction of phenolic compounds from celery leaf powder
- CP58.ID1213:** Naima Hammoudi, Anissa Leshaf, Kamal Benmansour, Chawki Bensouici, MMT-supported for alginate bionanocomposite film incorporating essential oil
- CP59.ID1214:** N. Toubia, M. Y. Messous, B. Belhorma, M. Tahri, M. Cherkaoui, Synthesis by Microwave-assisted method and characterization of Er³⁺ activated CaWO₄
- CP60.ID1222:** Ahmed Dali, Ilhem Rekkab-Hammoumraoui and Abderrahim Choukchou-Braham, Effect of the metal loading on the catalytic oxidation of cyclohexene over ruthenium supported on titanium-pillared clay
- CP61.ID1223:** Badrina Dairi, Hocine Djidjelli, Amar Boukerrou, Ahmed Koubaa and Nadira Bellili, Effect of a compatibilizing agent on the morphology, interface and mechanical behaviour of recycled poly(ethylene terephthalate)/polypropylene blends
- CP62.ID1226:** S.Bendebane, S.Djerad, L.Tifouti, Biodegradability of lead dioxide in aqueous organic acid solutions
- CP63.ID1230:** Saidjo, Ntenga Richard, Beda Tibi, Study of the Delayed Behavior of Kenaf Fibres
- CP64.ID1234:** S.Belkharchach, H.B.Lazrek, M. Ait Ali, A. Lachgar, Sulfuric acid immobilized on hydrothermal carbon as highly efficient and heterogeneous catalyst for the One-Pot synthesis of 2-substituted benzimidazole
- CP65.ID1238:** A. Amarray, S. El Ghachtouli, M.Azzi, The reactivity of lamellar materials based on manganese towards heavy metals
- CP66.ID1242:** A. S. Bouchikhi, N. Bouida, A. Megueni, S. Gouasmi, Elastic-plastic analysis of three-dimensional functionally graded materials under mechanical loading
- CP67.ID1250:** Mohammed Moutaouekkil, Abdelkrim Talbi, El Houssine El Boudouti, Omar Elmazria, Bahram Djafari-Rouhani, Philippe Pernod, Olivier Bou Matar, Quality factor enhancement in phononic crystal utilizing the disc shape cavities
- CP68.ID1251:** Sameer A. Awad, Eman M. Khalaf, Improvement of chemical, thermal and mechanical properties of Polyvinyl Alcohol (PVA) by using Multi-Walled Carbon Nanotubes (MWCNTs).
- CP69.ID1261:** I. Nadi, M. Tourabi, K. Nohair, F. Bentiss, A. Nyassi, C. Jama, 3Thermodynamic characterization of metal dissolution and inhibitor adsorption processes in mild steel / 3,5-bis(3,4-dimethoxyphenyl)-4-amino-1,2,4-triazole / hydrochloric acid system
- CP70.ID1263:** M. Tourabi, I. Nadi, A. Zarrouk, I.B. Obot, F. Bentiss, A. Nyassi, C. Jamad, 3,5-Diaryl-4-amino-1,2,4-triazole Derivatives as Effective Corrosion Inhibitors for Mild Steel in Hydrochloric Acid Solution: Correlation between Anti-corrosion Activity and Chemical Structure
- CP71.ID1264:** D. Berouguiaa, S. Bouadjela, F. Z. Abdoune, Z. Hadjou Belaid, L. Mechernene, U. Maschke, Effect of SiO₂ nanoparticles on the transitions of phases of composite materials polymer/ liquid crystal
- CP72.ID1267:** Sadou Houria, Bahmani Abdellah, Bettahar Nourredine, Effet du taux de substitution du Zn dans la phase HDS sur leur propriété structural
- CP73.ID1275:** A. Berrissoul, A. Dafali, K. Cherrak, E. Loukili, Comparative study of corrosion inhibition by Nerium oleander extract for aluminum and mild steel corrosion in 1M HCl: EIS method
- CP74.ID1278:** Malki Siham, El Farh Larbi, Structural and electronic properties of

compounds XSb₂ (with X = V and Fe).

- CP75.ID1288:** Solhe F. Alshahateet, Ahmad S. Eldouhaibi, Salah A. Al-Trawneha, Mohammed M. Al-Mahadeen, and Anwar G. Jiries, Adsorption Studies of Some Heavy Metal Ions onto C-4-bromophenylcalix[4]resorcinarene
- CP76.ID1294:** Ahmed Hamdan Suwaylim Albalawi, Design, Green Synthesis and Characterization of Some Potential Bioactive Imidazolium-based Ionic liquids
- CP77.ID1295:** AnasRaja'anTulaihan Al Johani, New functionalized ionic liquids: Agreen and efficient Synthesis, characterizationand biologicalscreening
- CP78.ID1297:** Zineb El Aslaoui, Yasser Karzazi, Belkheir Hammouti, Donor-Acceptor Organic Materials with low Band-gap for Photovoltaic Applications: A Density Functional Theory Investigation
- CP79.ID1304:** S. Alaoui Mrani, J. Lazrak, N. Arrousse, F. El Hajjaji, Z. Rais, M. Filali Baba, M. Taleb, Inhibition effects of imine derivative on the corrosion of carbon steel in hydrochloric acid solution
- CP80.ID1313:** Y. El Kaissi, A. Koulou, Y. Hmidani, I. Mariouch, M.S. Elyoubi, M. Ebn Touhami, Study of corrosion behavior of Ni-P and Ni-P-TiO₂ coating on a steel rebars deposited by electroless deposition in simulated concrete pore solutions in marine industrial environments.
- CP81.ID200:** Moussa Ahmed, Saad Aissat, Baghdad Khiati and Nouredine Djebli, First evidence of Anti-biofilm Activity of Propolis -Sahara Honeys (P-SHs) against *Candidaalbicans*
- CP82.ID202:** Nouredine Adjlane, Mohammed Wafdi, Development of an alternative strategy against varroa bee with the use of organic acids (oxalic acid) in Algeria
- CP83.ID203:** Hasnae.Lamine, Abderrazzak. Khadmaoui, Abdelmajid. Soulaymani, Prospective study of food poisoning in the education sector in the city of Mohammedia in Morocco
- CP84.ID204:** Hamdi Bendif, Mohamed Djamel Miara, Giovanni Caprioli, Filippo Maggi, *Rosmarinus eriocalyx* as a natural source of bioactive compounds
- CP85.ID212:** Benaradj A, Boucherit H, Hasnaoui O, Ethnobotany of Asteraceae medicinal and aromatic interest under grouping at *Pistacia atlantica* in the area of Bechar (Algeria)
- CP86.ID228:** Bensafiddine Fatiha, Djedid Mabrouk, Hadj Seyd Abedlkader, Benalia Mokhtar, Ad Chifaa, Soltani Amel, Biosorption of Cu(II) and Ni(II) ions from aqueous solution by *Opuntia ficus-indica* powder
- CP87.ID233:** Z. Mohammedi, Phenolic content and hydrogen peroxide scavenging capacity of some honey samples and propolis
- CP88.ID234:** Samah Lakehal, Cherifa Chaouia, Fatma Z. Benrebiha, Nacera Tadjine, Antioxidant activity of two species essential oils growing in Djelfa (Algeria): wormwood (*Artemisia herba-alba* Asso.) and rosemary (*Rosmarinus officinalis* L.)
- CP89.ID241:** A. Belouazni, A.E.K Douaoui and M Larid, In vitro study of the loss of efficacy of two fungicides under a range of saline solutions and residence period using bio-indicators
- CP90.ID257:** Soukaina Kaidi, Soukaina Kaidi, Zahira Belattmania, Fouad Bentiss, Charafeddine Jama, Mustapha Barakate, Chaimaa Katif, Abdeltif Reani, Brahim Sabour, Alginate-mediated synthesis of silver nanoparticles using the brown seaweed *Laminaria ochroleuca*: structural features and antibacterial activity
- CP91.ID263:** Latifa Amiar, Hinde Hami, Naima Rhalem, Ahmed Aarab, AbdelrhaniMokhtari, AbdelmajidSoulaymani, Rachida Soulaymani-Bencheikh, Deliberate self-poisoning with pesticides in Morocco: results of a nationwide study
- CP92.ID307:** A. Loudini, M. Ibnoussina, Valorization of dredging sediment of safi port in civil engineering work (Safi, Morocco)
- CP93.ID310:** Assia Belhassan, Samir Chtita, Tahar Lakhli and Mohammed Bouachrine, QSPR Study of the Retention/Release Property of Odorant Molecules in Water, Dairy and Pectin gels
- CP94.ID311:** M. Souifi, A. Souissi, Simultaneous water and energy saving in cooling water networks using pinch approach
- CP95.ID325:** Salima Laib, Hynda Rezzaz-Yazid, Zahra Sadaoui, Application of heterogeneous Fenton oxidation for degradation of methylene blue dye
- CP96.ID335:** Rimani. M, Mzabri. I, Chafik. Z, Berrichi. A, Adventitious flora associated with Saffron (*Crocus sativus* L.) in Morocco

	CP97.ID342: Bekri My hachem, El Hmaidi Abdellah, Elfaleh El Mati, FADILI ben youssef, Modeling of rainfall parameters - flow in the watershed of Oued Ansegmir (Haute Moulouya, Morocco) (MODEL IHACRES) CP98.ID345: Salima AitAli, Ounissa Kebiche-Senhadj, Lynda Mansouri and Mohamed Benamor, Comparative Evaluation of Removal of Red Burgundy Acid by Membrane Polymer Inclusion (PIMs) with Aliquat336 and TOA CP99.ID347: Yasmina Bendaoud-Boulaheib, Falastine Souiad, Sameh Boudiba, Aissa Chibani, Impedancemetric Study of Inhibiting Effect of Natural product on Hard Growth Water CP100.ID348: F. Boudrahem, F. Aissani-Benissad, Sorption of yellow Bezacryl from Aqueous Solutions Using shoe soles waste Materials: Adsorption and Characterisation Studies CP101.ID1170: Amal.Radi, Smaail. Radi, Balkher. Hammouti, Pyrazole derivatives with N-pivot functionalized donor-group Synthesis and preliminary metals binding properties
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08:30 – 10:00	Plenary Conference Prof. Mourad Errasfa, Morocco Plenary Conference Prof. Mohammed Eddaoudi, Saudi Arabia Plenary Conference Prof. Charaf Jama, France Chairman: Prof. LUTZ TIETZE, N. CHIHIB & S. AL-SHAHATEET
10:00 – 11:00	FIRST SESSION: ORGANIC, INORGANIC AND NANOMATERIALS (Room 1) Chair: Prof. A. JABRI & B. ELOUADI CO179.ID1245: Z.Hbilate, Y.Naimi, D.Takky, Modeling of operation of a proton exchange membrane fuel cell(PEMFC) and the environmental impact of using PEMFC CO180.ID1246: O. El Abouti, E.H. El Boudouti, B.Djafari-Rouhani, Comparison of scattering spectra and density of states in a layer deposited on a substrate CO181.ID1257: M. Laourayed, M. El Moudane, M. Boudalia, A. Guenbour, M. Tabyaoui, A. Bellaouchou, A. Ghanimi, A. Sabbar, Chemical Durability and Structural Study of Bismuth Niobium Phosphate glasses CO182.ID1260: I. Nadi, M. Tourabi, K. Nohair, A. Nyassi, B. Hammouti, C. Jama, F. Bentiss, corrosion behavior controlled by 2,5 bis(4-pyridyl)-1,3,4 oxadiazolefilm with both classic and self-assembly deposition method on carbon steel substrate CO183.ID1276: Jamal AlSadi, Investigation of the effects of Formulation, process parameters, Dispersions, and Rheology, using combined Modelling and experimental simulations CO184.ID102: Yassine Kaddouri, Rafika El Ati, Mohammed El Kodadi, Rachid Touzani, New potential applications of mondentate and polydentate pyrazolic ligands and their theoretical investigations CO185.ID1280: Lazrak Jamila, Soukaina Alaoui Mrani, Zakia Rais, Mohammed Filali Baba, Mustapha Taleb, Study of the effect of the inhibitor (LEUCINE) on the corrosion of the soft steel in the middle HCl (1 M): application of the Plans of Experiences CO186.ID1281: Baragh Fidâ, Draoui Khalid, El Bali Brahim, Agunaou Mahfoud ,Kherbeche Abdelhak, Response Surface Methodology for the optimization of 4-Nitrophenol degradation by a heterogeneous Fenton-like reaction on Moroccan pillared clays CO187.ID1282: H. Lgaz, A. Chaouiki, R. Salghi, S. Jodeh, Corrosion inhibition of steelby threepyridinium compounds: A molecular dynamics simulations study CO188.ID1283: Medjahed Bendida, Bouzit Mohamed, The influence of the canopy on the horizontal wind out-flow
10:00– 11:00	FIFTH SESSION: ELECTRICAL ENGINEERING AND PHYSICS SIMULATIONS (Room 2) Chair: Prof. M. ZERFAOUI & A. EL MOUSSAOUY CO189.ID520: Faouaz Jeffali, Abdelaziz Ouariach, Bachir Elkihel, Abdelkarim Nougaoi, Fabienne Delaunois, The use of non destructive technique of infrared thermography to diagnose the rotating motors and the impact on the kinematic chain CO190.ID522: Oudani Hassan, Krit Salaheddine, Lahoucine Elmaimouni, New Approach Protocol Minimized Energy Consumption for Wireless Sensor Networks CO191.ID524: B. Jamal, M. Boukendil, A. Abdelbaki, Z. Zrikem, Thermal behavior of an alveolar structure submitted to a sinusoidal excitation CO192.ID527: Mina Ider, Alain Jouanneaux, Saïd Ouaskit, Abdelhadi Kassiba, Application of the experimental design methodology using the microwave irradiation technique on

	the synthesis of stable silver nanoparticles encapsulated within the latex copolymer: optical and structural characterizations CO193.ID528: M. Mbarek, K. Alimi, New carbazole-stilbene copolymer: synthesis, structural and photo-physical properties of films and nanowires elaboration CO194.ID529: Mohamed Dib, Ali.Nejmi, Voltage adjustment for Medium Electrical Distribution Networks Including renewable energies sources CO195.ID533: Fatima El Bachraoui, B. Manoun, Y. Tamraoui, I. Saadoune and J. Alami, Ba_{1-x}La_xTi_{1-x}Fe_xO₃ (0≤x≤1) Perovskite-type materials for solid oxide fuel cell cathodes: Crystal structure, optical and electronic conductivity investigations CO196.ID1173: I. Quotane, E. H. El Boudouti, B. Djafari-Rouhani, Bound states in the continuum in one dimensional phononic crystal
	FIRST SESSION: ORGANIC, INORGANIC AND NANOMATERIALS Room 3 Chair: Prof. L. BAZZI & E. H. EL BOUDOUTI
10:00– 11:00	CO197.ID1286: Imane Aouam, Yassine Elatki, Amal Taroq, Fatima Elkamari, Badiia Lyoussi, Abdelfattah Abdellaoui, Antioxidant Capacities and Total Phenolic Contents of Thymus riatarum from Morocco CO198.ID1289: Yassine Benmassaoud, Khaled Murtada, Rachid Salghi, Mohammed Zougagh, Ángel Ríos, Rapid sample screening method for authenticitycontrolling vanilla flavoursusingliquidchromatography with electrochemical detection ataluminiumdopedzirconiananoparticles-modified electrode CO199.ID1290: A. AitAghzzaf, B. Rhouta, E. Rocca, A. Khalil, Zinc carboxylates used as anticorrosive pigments: corrosion inhibition of steel by water extract in NaCl medium CO200.ID1292: Ali Bumajdad, ShamsunNahar, AlOx-chitosan biodegradable nanocomposite development for the removing organic dye CO201.ID1296: Zineb El Aslaoui, Yasser Karzazi, Belkheir Hammouti, New compounds based on polythiophen for organic solar cells: A Quantum chemical investigation of structural and optoelectronic properties relationship. CO202.ID1298: Y. Baymou, M. Ebn Touhami, R. Belkhmima, M.Rkaye, R. Lachhab, H.Bidi, M.Attaoui, M.Allam, New treatment for the protection of heritage steel against atmospheric corrosion CO203.ID1299: M.Rkayae, Y.Baymou, M.Ebn Touhami, RA.Belakhmima, K.Elougoufifa,Y. Hassani, The effect of Pseudomonas aeruginosa biofilm on the corrosion behavior of copper in an artificial drinking water CO204.ID1300: M.Rkayae, M. Ebn Touhami , K. Elougoufifa, Y. Hassani, The influence of Pseudomonas Aeruginosa on the corrosion behavior of single-phase Cu-Zn alloy in an artificial drinking water CO205.ID1301: R. Lachhab, R. Belkhmima, A. Ech-Chebab, M. Ebntouhami, Study of corrosion behavior and dezincification of single-phase Cu-Zn alloys in drinking water CO206.ID1302: M. Attaoui, N. Dkhireche, M. Ebn Touhami, Study of the effect of acid concentration on the protection of industrial steels in hydrochloric acid pickling baths by quinoxaline molecules CO207.ID1303: Y.Hassani, M.Galai, J.Ouassir, Y.Baymou, M.Rkayae, K.Elougoufif, M.Ebntouhami, Effects of jet velocity and impingement angle on the erosion-corrosion behavior of ECOBRASS & DZR alloys in drinking water.

Session Poster III	
Chair: A. BOUZIDI & S. KARIM	
11:00 – 11:30	CP102.ID349: Allalou Sara, Kherribet Rabia, Benmounah Abdelbaki, Effects of nano silica on the properties of low clinker cement mortars
	CP103.ID354: M. Belmokaddem, A. Mahi, Y. Senhadji, Effect of incorporating plastic waste as aggregate on the physical and mechanical performance of concrete
	CP104.ID358: Toumi, Berredjem, Alayat, Houhamdi, Study of water pollution and its impact on the environment: example of the hydrosystem Lake of Birds-Algeria
	CP105.ID365: Athman Hafidi, Rachid Salghi, Ataa Abouatallah, Mohamed Ayoub, Fatima Ayoub, Naziha AFFI, Calibration of GFS model by using real time weather data for water requirement forecasting of citrus crop at the Moroccan Souss basin
	CP106.ID367: S. Ziania, S. Meskib, H. Khireddine, Effect of the HA/Mg/β-CD matrix on the antibacterial activity of the ciprofloxacin loaded in its surface
	CP107.ID370: Ghezali Y, Chernai-H S, Hamdi B, China B, The impact of microplastics pollution and the strategies of bioremediation in the Mediterranean sea
	CP108.ID372: Asmae El Cadi, Ikram Chaer, Asmaa Lanjri, Mohamed Khaddor, Jamal Brigui, Study of lipids extracted from the soil of the public discharge of Tangier (Morocco)
	CP109.ID378: A. Shaim, A. Benlhachemi, M. Galai, M. Ebn Touhami, A. Chahine, Effect of titanium content in glass system inhibitor on the corrosion behavior of ordinary steel in 3% NaCl medium
	CP110.ID379: Y. Amallas, Y. Ajdor, Moroccan beaches Protection against coastal erosion by geotextile tubes
	CP111.ID383: Mahyoub Amer, Bousselham Kabouchi, Salah El Alami, Mohamed Rahouti, Abderrahim Famiri, Abdelwahed Fidah, Influence of moisture on the axial resistance of clonal eucalyptus wood
	CP112.ID389: Zenati Billal, Kourdali Sidali, Inal Ahmed, Mesbaiah Fatma-Zohra, Meknachi Abdellah, Belhouchet Nassima, Characterization and dynamic of pollutants flux discharged by Mazafran River (Bou-Ismaïl Bay, Algeria) on the nearshore coastal environment
	CP113.ID397: Nidal Jaradat, Ola Ayesh, Antiobesity Potential of Ten Traditional Edible and Medicinal Plants in Palestine, Organic and Aqueous Extracts; a Comparison Study with Orlistat
	CP114.ID3103: El Hajam Maryam, Idrissi Kandri Noureddine, Zerouale Abdelaziz, El Khomsi Anas, Harrach Ahmed, Physicochemical characterization of softwood waste "Cedar" and hardwood waste "Mahogany": comparative study
	CP115.ID3104: Belaid Imad, Saifi Hayette, Talhi Brahim, Nacer Houria, The effect of an ionic liquid on the corrosion inhibition of A9 ordinary steel in an aqueous medium. With & without the presence of cathodic polarization
	CP116.ID3106: K. Bedjaoui, R. Krache, Morphological and mechanical properties of blend polymers PC/SAN
	CP117.ID3108: Almouli Ebrahim, Rouane-Hacene Omar, Mouffok Salim, & Bouderbala Mohammed, Morphometric relationship of mediterranean mussels <i>Mytilus galloprovincialis</i> , (Lamarck, 1819) in Algerian West coasts
	CP118.ID3109: Mohammed Aqil, Lahcen Bahi, Latifa Ouadif, The search for a compromise between mechanical strength and fluidity of cementitious materials using plastic additives
	CP119.ID3113: Aziz Seghir, The meteorological drought in the middle moulouya in the centro-oriental of Morocco
	CP120.ID3119: Toumi, Berredjem, Alayat, Houhamdi, Integrated water resources

management and wetland conservation: study of the surface water of the wetland Lac des Oiseaux (Algeria)

CP121.ID3125: A. El Mansouri, R. Drissi Daoudi, H. Mokhlis, M. Azzi, Study of cupric ions behavior in Ethylenediaminesolutionwith a view to its recovery

CP122.ID3127: Asma Behilil, Driss Lahcenea, ,Brahim Zahraouia, Houcine Benmehdia, Meriem Belhachemia, Characterization and discoloration of methylene blue dye by modified clay with ZnOby impregnated method

CP123.ID3134: N.Hechiche, D.Boughrara, L.Hamadou, A.Kadri, Extraction of essential oil from Artemisia herba alba and it application in the protection of Aluminum in HCl medium

CP124.ID3145: Ali Aghmiz, Mohamed Said El Ouahabi, Raquel Rivas, Farid El Guemmout, Anna M. Masdeu-Bultó, Valorization of lignocellulosic waste. Formation of carbonates from CO₂

CP125.ID3146: F. Souiad, Y. Bendaoud-Boulahlib, A. Chibani, Use of chemical evaluation of effect of natural inhibitor in the treatment of hard water

CP126.ID3152: Omkeltoum Zidani, Mohammed Dakki, Fatima Fadil, Descriptive and statistical study of the types of sites studied during the physico-chemical evaluation of a wet zone in Morocco

CP127.ID3159: Mariem Ennouhi, M.ElAzzouzi, A.ElHorch, A.Khadir, L.Hasnaoui , Autopsy of the RO membrane of the khénifra brackish water desalination plant

CP128.ID3171: Siham Boumaaza, Jamal Eddine Jellal, Optimization of High Rate Algal Pond in floor mode for the purification of wastewater

CP129.ID3175: A. Toumi, S. Daoudi, Study of flood typology and flow regime in the Eastern Rif Catchment Basin

CP130.ID3184: Berredjem Layachi, Arabi Nourredine, Molez Laurent, Jean-Yves Brossault, Influence of the nature of recycled sand on the rheological and mechanical properties of cement mortars

CP131.ID3185: Abdelhak Chagraoui, Ahmed Souissi, Technical-economic comparison of different modes of fresh water treatment involving reverse osmosis and ion exchange for boilerwater production

CP132.ID3191: A. Aouniti, S. Karim, C. Belbachir, I.Rahhou, M.Achmit, M. Taleb, F. El hajjaji, B. Hammouti, Assessment of trace element pollution in the fisheries products of the Moroccan Atlanticcoast

CP133.ID405: Ibtissem SIFI, Nassera Ghellai, Aisse Chiali, Étude et Modélisation d'un Générateur Thermoélectrique

CP134.ID407: Benaradj A, Boucherit H, Hasnaoui O, Preservation and sustainable management of groups at Pistacia atlantica in the Western Saharan Atlas (Algeria)

CP135.ID426: Sana Moslim, Boubkar Bahani, Hicham Gourgue, Design and implementation of intelligent MPPT control of the maximum power of PV modules

CP136.ID427: Loubaba Rida, Adil Hafidi Alaoui, Kaoutar Bazzar, The effect of curing temperature on high volume fly ash mortar

CP137.ID437: A. Hallaoui, A. El Assyry, Z. Benzekri, H. Serrar, S. Boukhris, A. Zarrouk, Electronic and photovoltaic properties of new four 4H-pyran derivatives as solar cells materials

CP138.ID439: Hicham Gourgue, Ahmed Ihlal, Ahmed Aharoune, Errami Mohamed,Khalal Larbi, Said Kardellass, On the Impact of Surface Discontinuity and Hill-effect on Dispersion of PM Emissions: Case of the Industrial Area of Anza

CP139.ID444: Grari Meryem, Zoheir CifAllah, Numerical Modeling of Silicon Nitride Plasma discharge

CP140.ID446: Mohammed Igouzal, Abderrahmane El Fadili, Mohamed Aghad, Modeling

	tidal current energy extraction in Sebou estuary (Morocco) CP141.ID500: N. Bellemjid, A. Iddara ,A. Moussaifa, N. El Abbadia and A. Mesfiouib, Local development of Enzyme-linked Immuno-Sorbent Assay for two carbamates pesticides: carbendazim and carbofuran CP142.ID502: Mohammed Boulesbaa, Study of vibrational and optical properties of annealed SiOxNy:H thin films CP143.ID503: O. Aitmellal, M.Y. Messous, B. Belhorma, M. Tahri, L. Oufni, Direct precipitation synthesis and characterization of Yb³⁺ / Er³⁺ doped Lanthanum orthophosphate LaPO₄ CP144.ID512: M.Jammoukh, K.Mansouri, B.Salhi, Industrial and ecological effect of a Bio-load on polymers CP145.ID521: Faouaz Jeffali, Abdelaziz Ouariach, Bachir Elkihel, Abdelkarim Nougaoi, Fabienne Delaunois, Study on the non-destructive thermal diagnosis of bearing and variable rotational speed by temperature mapping in Infrared Thermography CP146. ID523: B. Jamal, M. Boukendil, A. Abdelbaki, Z. Zrikem, Coupled heat transfer through an alveolar structure heated by a uniform heat flux CP147.ID530: M. Azeroual, M. El Wartiti, A. Qarbous, B. Baghdad, M. Bounakhla, Assessment of Air Pollutant Sources in Deterioration of the Ancient Rampart of Sale City—NW Morocco (SW of the Mediterranean Basin). CP148.ID532: L. Srata, S. Farres, F. Fethi, H. Chatei, A. Rrhioa and D. Bakari, Analysis of some rocks using Laser Induced Breakdown Spectroscopy CP149.ID3189: Hanane Ait hmeid, Mustapha Akodad, Mimoun .Aalaoul, Mourad. Baghour, Abdelmajid Moumen, Ali Skalli, Lahcen Daoudi, Study and granulometric characterization of the Neogene kert pond deposit of Trebia, the region of Nador North- East Morocco
	FIRST SESSION: ORGANIC, INORGANIC AND NANOMATERIALS (Room 1) Chair: Prof. M. ZOUGAGH, F. FALYOUNI & H. OUDDA
11:30– 13:00	CO207. ID1308: M. Radi, N. Dkhireche, R.Melian, M.Galai, M. Ebn Touhami, Corrosion Inhibition of Al-alloy 7075 in 3,5% NaCl Solution by a Natural Inhibitor (Pumpkin Pepo) An Electrochemical and Surface Study CO208. ID1309: R. Melian, M.Galai, M. Ouakki,M. Radi, N. Dkhireche, M. Ebn Touhami, Experimental investigation of corrosion inhibition of Aluminums alloy alloy 2024-T3 in 3.5% of NaCl CO209. ID127:A.El Merhraoui, K. El Ouazzani, M.Elhallaoui, QSAR models to predictantiproliferative activity by studying imidazo[1,2-a]pyridine and imidazo[1,2-a]pyrazine derivatives CO210. ID1312: Y. El Kaissi, Y.Hmidani, A. Koulou, R. Mariouch, M.S. Elyoubi, M. Ebn Touhami, Effect of chloride ion on steel reinforcement corrosion in concrete powder solution extracts (CPSE) in the presence of sulfate ions. CO211. ID1314: M. Fathi, S. El Youbi, B. Chafik El Idrissi, Setting Properties of Calcium Phosphate Bone Cements CO212. ID1315: M. Brelfaquir, M.S Elyoubi, A. Rhandour and P. Roussel, Structure of Pentylenediammonium hexachlorostannate(IV)

	CO213. ID1316: R. Elmrabet, R. Mariouch, A. Elharfi, M.S. Elyoubi, Study of properties of fly ash cements CO214. ID1317: H. Es-sahbany, S.Nkhili, M. Lotfi, M. Berradi, M. Belfaquir, M. S. Elyoubi, Exploitation of local natural clays for the adsorption of heavy metals from wastewater: case of nickel ions CO215. ID1320: Anas Ghailane, Heinz Busch, Christian Fischer, Jones Alami, Development of anti-corrosive Titanium nitride coating using high power impulse magnetron sputtering CO216. ID1321: Karim El Ouardi, Mouad Dahbi, Mehmet Oğuz Guler, Hatem Akbulut, Abdeslam El Bouari, Ismael Saadoun, Green synthesis of titanium oxide and evaluation of their performances as anode material for lithium ion batteries CO217. ID1322: Chaymae Hejjaj, C.B. Fischer, R.Hakkou and J. Alami, Flaxseed grafted polyacrylamide as possible green corrosion inhibitor for low carbon steel CO218. ID1209: N. Labjar, A. Mazkour, M. El Mahi, E.M. Lotfi, M. Benmessouad, A. Skelli, M. Serghini-Idrissi, S. El Hajjaji, Study of synergistic effects of amino tris (methylene phosphonic acid) and Zn²⁺ on the carbon steel corrosion in acidic media CO219. ID1305 : Chedad Abdelbasset, Noureddine Elmeiche, Stability analysis of a functionally graded plates with porosity using high order shear deformation theory
11:30– 13:00	SECOND SESSION: FROM NATURAL PRODUCTS TO THEIR BIOTECHNOLOGICAL APPLICATION (Room 2) Chair: Prof. A. KAHOUADJI & F. MANSOURI
	CO220. ID261: B. El Guerrouj, Y Bentata, M Daudon, M. El Melhaoui, O. El Hachemi, O Bekkouch, Epidemiological study of nephrolithiasis in the eastern region of Morocco CO221. ID262: Soumaya Choukri, M. Nehiri, K. Tarfaoui, R. Ijoub et M. Ouhssine, Isolement des souches de bactéries lactiques et détermination de leur effet antibactérien CO222. ID1108: Ez zoubi Yassine, Boustia Dalila, Fadil Mouhcine, El Ouali Lalami Abdelhakim, Farah Abdellah, Biological Activities and Optimisation of Phenolic Extracts from Moroccan Lavender Obtained by Ultrasound Assisted Extraction CO223. ID1262: M. Tourabi, I. Nadi, R. Fdil A. Zarrouk, F. Bentiss, A. Nyassi, C. Jamad, 3,5-Diaryl-4-amino-1,2,4-triazole Derivatives as Effective Corrosion Inhibitors for Mild Steel in Hydrochloric Acid Solution: Correlation between Anti-corrosion Activity and Chemical Structure CO224. ID1265: Amakran Amina, Koutet Fatima Zouhra, Abidar Sara, Hamoudane Meriem, Nhiri Mohamed, Fatiha Chibi, Phenolic compounds in Myrtus communis and Mentha suaveolens extract - Antioxidant capacity and antiglycation activities CO225. ID1266: O. Id El Mouden, A. Batah, A. Anejjar, R. Salghi, B. Hammouti, 5-(1, 2-dihydroxyethyl)-3, 4-dihydroxyfuran-2-one ascorbic acid: a new organic compound kind of corrosion inhibitor of carbon steel in Hydrochloric Acid CO226. ID1269: Noureddine Boudar, Hajar Bellefqih, Asmaa Marchoud, Bouchaib Manoun, Abderrahim Aatiq, Cationic distribution in the new Nd₂CaSnO₆ perovskite type phase
	THIRD SESSION: WATER, POLLUTION AND ENVIRONNEMENT (Room 3) Chair: Prof. R. TOUZANI & Y. EL OUADI
11:30– 13:00	CO227. ID3174: M. S. Kahouadji, S. Hseini, B. Jaafar, L. Zidane, A. Kahouadji, Valorization of ethnobotanical patrimony of Bigoudine watershed region (Moroccan Western High Atlas) CO228. ID260: A. Chergui, I. Zakariya, R. Nejari, L. El Hafid, M. Melhaoui, Contribution à une étude des lipides totaux foliaires et des catégories lipidiques chez l'Oyat (Ammophila arenaria. L.), plante des dunes littorales de la Méditerranée Orientale du Maroc

	CO229. ID3176: M.Bouterfas, A.Chergui, S.Fadlaoui, A.Chafi, Pesticides and nitrates: impacts of environmental and sanitary Situation of Triffa plain CO230. ID3180: A. Wakrim, F. Byoud, S. El Ghachtouli, J. Jamal Eddine, M. Azzi, Treatment of food dyes liquid waste by Fenton and Electro-Fenton processes CO231. ID3181: Oulya Zaraali, Mouna Saihi, Driss Serrar, Ouahid Elasri, The health establishment as an environmental company: rational and sustainable management model "Case of CHPMdiq" CO232. ID3183: Larouci Abdelkader, Senhadji Yassine, Laoufi Laïd, Amar Benazzouk, Improvement Of The Fergoug Dam Vase Treated By Lime CO233. ID3186: Derfoufi Hind, Arabi Mourad, Bitar Marie, Legssyer Bouchra, Evaluation of the Physicochemical Quality of Eastern Morocco's Watercourses (Lower Moulouya, Cherâa-Zegzel) CO234. ID3187: S. Kodad, L. Amar, M. Bekkali, Occurrence of Vibrio species in Moroccan Atlantic coastal lagoons CO235. ID3188: M. Azdouz, M. Azrour, A. Batan, M. Lechheb and M. Benbaaziz, Oasis of East Morocco facing the challenges of bad weather: Study of the choice of local building materials in casbahs of Draa-Tafilalet CO236. ID3190: I. Azzakhnini, A. Abdelouas, El.H. Talbi, Iodine content in groundwater of North Eastern Morocco and its relation with the incidence of goiter CO237. ID3192: S. Karim, A. Aouniti, C. Belbachir, I. Rahhou, M. Achmit, M. Taleb, F. El hajjaji, B. Hammouti, Assessment of heavy metal concentrations in seven Commercial marine Fishes caught in the Atlantic coast of Morocco and their associated health risks to consumers CO238. ID339: Youssef Benjelloun, Anissa Lahrichi, Soumaya Boumchita, Farid Zerrouq, Catalytic wet peroxide oxidation for the degradation of an azo dye "Mordant black 11" in aqueous solution
13:00	Closing Ceremony