



# **Program and Abstracts**

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## Welcome

**Dear Colleagues,**

It is our great pleasure and honor to welcome all of the attendees participants of the **International Conference on Chemical Sciences & Applications (ICCSA-2016)** organized by Natural Sciences Publishing (NSP) and Arab Academy for Science, Technology and Maritime Transports on **6-9 August 2016 Alexandria -Egypt**.

The **ICCSA-2016** aims to bring together leading academic scientists, researchers and research scholars to exchange and share their experiences and research results about all aspects of chemical sciences. It also provides the premier interdisciplinary forum for researchers, practitioners and educators to present and discuss the most recent innovations, trends, and concerns, practical challenges encountered and the solutions adopted in the field of chemical sciences.

The research papers presented in **ICCSA-2016** are concerned mainly with Bio chemistry, Inorganic and Analytical Chemistry, Synthetic chemistry, Agricultural Chemistry, Pharmaceutical and Medicinal Chemistry, Applied and Industrial Chemistry, Environmental Chemistry, Petroleum chemistry, Natural Products and Biological Chemistry, Organic and Green Chemistry, Physical and Theoretical Chemistry, Biology Applications, Geochemistry and Hydrochemistry, Materials Science and Nanotechnology.

You can find more details about the conference at website of the conference: <http://icpam-01.naturalspublishing.com/index.asp>

Enjoy the program of **ICCSA-2016** and looking forwarded for your participation in **2<sup>nd</sup> International Conference on Chemical Sciences & Applications (ICCSA-2017)**.

Sincerely Yours,

**Honor Chairman**

**Prof Dr. El-Refaie Kenawy,**

*Head of Chemistry Department  
Professor of Polymer Chemistry,  
Department of Chemistry,  
Polymer Research Group  
Faculty of Science,  
Tanta University, Tanta, Egypt*

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Natural Sciences Publishing (NSP)



Center for Materials Science



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**Programme**

## Conference Schedule

### Saturday, August 06

Time	Title	Author
00:00 ~ 17:00	<b>Registration</b>	
12:00 ~ 14:00	<b>Opening Ceremony</b>	
14:00 ~ 15:00	<b>Coffee Break+ Exhibition+ Media interviews</b>	
15:00 ~ 17:00	<b>Lunch</b>	
17:00 ~ 18:30	<b>Poster Session</b>	<b>Odd Numbers</b>
18:30 ~ 20:00	<b>Poster Session</b>	<b>Even Numbers</b>
20:00 ~ 22:00	<b>Dinner</b>	

### Sunday, August 07

**Chairmans: Shaaban K. Mohamed and Ahmed A. Fadda**

9:00 ~ 10:00	<b>The current situation of the scientific research in Egypt</b> الوضع الراهن للبحث العلمي في مصر	<u>Essam Khamis</u>
10:00 ~ 10:30	Green Synthesis of Biologically Relevant Heterocyclic	<u>Mohamed Hilmy Ali Elnagdi</u>
10:30 ~ 11:00	Smart Soft Nanomaterials for Biomedical Applications: An Overview and Progress	<u>Ibrahim M. El-Sherbiny</u>
11:00 ~ 11:30	Sugar-Protein Reactions in Diabetes Mellitus: How Can We Protect Against Them?	<u>Nessar Ahmed</u>

#### **Session Separation (11.30-11.45)**

##### **Session 1 - Chairmans: Kamal M.S. Khalil and Gamal A. H. Mekhmer**

11:45 ~ 12:00	Synthesis, Characterization and Aqueous Properties of a Newly Prepared Lignin-based Graft Copolymer as a Drilling Mud Additive	<u>Hany Mohammed Ahmed Abdel Ra-heem</u>
12:00 ~ 12:15	Assessment of the Optical and Solid State Properties of Manganese Sulphide (MnS) Thin Film; Theoretical Approach	<u>Emmanuel Ifeanyi Ugwu</u>
12:15 ~ 12:30	Effect of temperature on Structural and Optical Properties of Hydrothermally Synthesized TiO <sub>2</sub> Nanowires	<u>Nomery Mohamed Abass Hadia</u>
12:30 ~ 12:45	Polymer Membrane Fuel Cells as a Green-energy Source for Transportation and Industrial Sectors	<u>Mohamed R. Berber</u>
12:45 ~ 13:00	Enhancing the Utilization Efficiency of Fuel Cells for Practical Use in the Agriculture Field	<u>Inas H. Hafez</u>
13:00 ~ 13:15	CNTs/carbon xerogel nanocomposite for water treatment and energy storage applications	<u>Nady A. Fathy</u>

##### **Session 2 - Chairmans: Mohamed Hilmy Ali Elnagdi and Karim Raafat**

11:45 ~ 12:00	Phytochomic and pharmacological studies of some Central African medicinal plants with antidiabetic properties	<u>J.N. Koane</u>
12:00 ~ 12:15	Equilibrium, Anticancer and Antimicrobial Studies of Pd(2-(ethylthio)ethylamine)C <sub>12</sub> ] Nano-Complex Involving DNA Constituents	<u>Mohamed R. Shehata</u>
12:15 ~ 12:30	Extraction of Amino Acids from Beet Juice Using Ion Exchange Bed Chromatography	<u>Emad Mohamed Ebrahim Bayoume</u>
12:30 ~ 12:45	Design, Synthesis and Evaluation of Antioxidant Capacity and Lipoxigenase Inhibiton of Some New 2-Phenylindole Derivatives	<u>H.S.El-Bordiny</u>
12:45 ~ 13:00	Detection of coumarins for ten plants used in Ethnoveterinary	<u>Ahmed Abdelhafiz</u>

13:00 ~ 13:15	medicine Artificial Zinc(II) Tweezers Relevant to the Modelling of N-Ada DNA repair protein	<u>Alshikh</u> <u>Mohamed M. Ibrahim</u>
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**Session 3 - Chairmain: Mohamed A. Osman and Natasha Ross**

11:45 ~ 12:00	Dependence of Photoluminescence and Optical Absorption Behavior of EDTA-Capped Zn <sub>0.78</sub> Cd <sub>0.22</sub> S Nanoparticles on thermally induced Structural phase transition, Morphological Changes and UV irradiation dose	<u>Mohamed A. Osman</u>
12:00 ~ 12:15	Geometrical engineering of magnetization reversal in Ni, Co and NiFe- based antidot lattices	<u>M. Salaheldeen</u>
12:15 ~ 12:30	Acid and Enzymatic Saccharification of Waste Agricultural Biomass for Biotechnological Production of Xylitol	<u>Abdul Ghaffar</u>
12:30 ~ 12:45	Environmentally Treatment and Control of Oil Fields Drill Cutting	<u>Mohamed Hassan Afify</u>
12:45 ~ 13:00	Astrochemistry: New Window of Research in Egypt	<u>Zainab M. Awad</u>
13:00 ~ 13:15	Synthesis and Characterization of novel Carbazole-based Block copolymer for applications in solar cells	<u>Abdelqader Imragaa</u>

13:15 ~ 13:45

**Coffee Break**

**Session Separation**

**Session 1 - Chairmain: Maher M. Girgis and Hummera Rafique**

13:45 ~ 14:00	Tautomerism of bis-diphenylphosphino malonyl derivatives dihydrazones, catalytic potentials in homogeneous cross coupling reactions	<u>Mohamed Shaker S. Adam</u>
14:00 ~ 14:15	Adsorption Performance of MF <sub>2</sub> O <sub>4</sub> Nanoparticles Loaded onto Activated Carbon	<u>Mona A. Shouman</u>
14:15 ~ 14:30	Impacts of Artisanal and Small Scale Mining on Water Sources in Madaka Area of Niger State, Northcentral Nigeria	<u>Amadi, A. N</u>
14:30 ~ 14:45	Synthesis and characterization of zeolite composite membranes and their application in water depollution.	<u>Karima Baghdad</u>
14:45 ~ 15:00	Lithium-ion battery cathode discharge current density enhancement via Platinum-Gold functionalized LiMn <sub>2</sub> O <sub>4</sub>	<u>Natasha Ross</u>
15:00 ~ 15:15	Base-Catalyzed Oxidation of some Macromolecules: Oxidation of Carboxymethyl Cellulose by Hexacyanoferrate (III) in Alkaline Solutions with Synthesis of New Chelating Agent for Elimination of Poisonous Metal Cations from Environment and Water-Wastes	<u>Refat Hassan</u>
15:15 ~ 15:30	Sorption of iodine on ion exchange resins	<u>Noha S. Farahat</u>
15:30 ~ 15:45	Characterization of coordination compounds of some transition metal ions with Schiff base ligand derived from dibenzoyl methane	<u>Walaa H. Mahmoud</u>
15:45 ~ 16:00	Highly Efficient Adsorbent for Uranium Removal from Aquatic Nuclear Wastes	<u>Emad Elshehy</u>

**Session 2 - Chairmain: J.N. Koane and Mohamed M. Radwan**

13:45 ~ 14:00	Electrochemical Biosensor for the Immediate Detection of Bacteria	<u>Amina AMLIL</u>
14:00 ~ 14:15	Electrochemical Chelation of Lead by DNA Modified Carbon Paste Electrode	<u>Sakina Touzara</u>
14:15 ~ 14:30	Electro-Oxidation and Detection of Phenol on Metals Modified Carbon Paste Electrodes	<u>Rajaa Maallah</u>
14:30 ~ 14:45	Conversion of Fructose to 5-Hydroxymethylfurfural catalyzed by a core-shell Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> -SO <sub>3</sub> H magnetic nanoparticles	<u>El Barbary Hassan</u>
14:45 ~ 15:00	Electrochemical oxidation of polyphenols in the presence of glutathione and characterization of oxidation products by ultra-performance liquid chromatography coupled to mass spectrometry	<u>Emad F. Newair</u>
15:00 ~ 15:15	Structure, Spectral Characterization and catalytic activity of Coordination Polymers Constructed by CuCN and Aliphatic Diamines	<u>Safaa Eldin H. Etaiw</u>
15:15 ~ 15:30	Modified Vanadium Oxide Supported Zirconia as Catalyst for Catalytic Synthesis of Coumarin	<u>Soad Abd Elmounem Sallam</u>



15:30 ~ 15:45	Utility of platinum and screen printed electrodes for microdetermination of the hypoglycemic drug gliclazide via cyclic voltammetry	<u>Eman Y. Z. Frag</u>
15:45 ~ 16:00	New heteroleptic palladium(II) dithiocarbamates as more potent anticancer metallo-drugs than cisplatin	<u>Zia-ur-Rehman</u>

**Session 3 - Chairmans: Kamal I Aly and Amadi, A. N**

13:45 ~ 14:00	The Impact of Treated waste Water on Soil Properties at Khartoum Refinery	<u>Salma Abdelghaffar</u> <u>Hassan Alamin</u> <u>Mohammad Nisar</u>
14:00 ~ 14:15	Estimation of heterogeneity in novel segregating population of Peas using Biochemical markers (SDS-PAGE)	<u>Basil Shelton</u> <u>Marasinghe</u>
14:15 ~ 14:30	Attracting More Students to Chemistry	<u>Mabrouk M. Salama</u> <u>M. A. Abu-Saied</u>
14:30 ~ 14:45	Quality of Water Resources in Kufra Basin, SE Libya	<u>Sayed M. Ahmed</u>
14:45 ~ 15:00	Novel carboxylated poly (glycidyl methacrylate) grafted cellophane for Proton Exchange Membrane Fuel Cell Applications	<u>Aya H. Mohammed</u>
15:00 ~ 15:15	Enhancing The Durability of Calcareous Stone Monuments Of Ancient Egypt Using CaCO <sub>3</sub> Nanoparticles	<u>Wafaa Mahmoud</u> <u>Hosny</u> <u>Mennatllah S. Header</u>
15:15 ~ 15:30	Alkali Activated Ceramic Waste with or Without Two Different Calcium Sources	
15:30 ~ 15:45	Equilibrium and Potentiometric Studies of Diorganotin(IV) with 1-Benzoyl(1,2,4-Triazol-3-Yl)Thiourea	
15:45 ~ 16:00	Engineered Sorbent of Magnetic Iron Oxide Nanoparticles-Urea-Activated Carbon for Potential Magnetic Solid Phase Extraction of Uranium (VI) from Aqueous Solution	

15:00 ~ 17:00

**Lunch**

20:00 ~ 22:00

**Dinner**

**Sunday, August 08**

**Chairmans: Nessar Ahmed, El-Refaie Kenawy**

9:00 ~ 9:30	Approaches Toward Improving Some of Medicinal Drugs Such Anti-Inflammatory, Anti-Biotics and Anti-Diabetic Agents.	<u>Shaaban K. Mohamed</u>
9:30 ~ 10:00	Magnetic Nanoparticles for Cancer Therapy: Facile Synthesis Techniques and Desired Properties	<u>E.M.M. Ibrahim</u>
10:00 ~ 10:20	Cyanine Dyes of New Heterocyclic ring systems: Design Convenient Synthesis, Biological Screening and Structure- Spectra studies	<u>Ahmed A. Fadda</u>
10:20 ~ 10:40	Economic impact of scientific research in view of knowledge economy prospective	<u>Ahmad Al sabagh</u>

**Session Separation (10.40-11.00)**

**Session 1 - Chairmans: Hossnia Saber Mohran and Pumeza Gogwana**

11:00 ~ 11:15	Research of the protective properties of the inhibitors Olazol, V <sub>p</sub> CI-637, V <sub>p</sub> CI-637GL, V <sub>p</sub> CI-639HFB, Telaz at processing the casing-head gas by means of impedance spectroscopy (EIS)	<u>E.S. Ivanov</u>
11:15 ~ 11:30	Modified ZnO Nanoparticles Thin Films as Visible Light Photocatalysts for Wastewater Treatment	<u>M. A. Barakat</u>
11:30 ~ 11:45	Noble metal nano-particles impregnated into zeolites for ethanol oxidation reaction in alkaline medium.	<u>A.A. El-Shafei</u>
11:45 ~ 12:00	Nano sized ZnO: An efficient catalyst for degradation of rhodamine B dye in aqueous medium	<u>Muhammad Saeed</u>
12:00 ~ 12:15	Homogeneous Photocatalytic degradation of Reactive Black 5 textile dye using H <sub>2</sub> O <sub>2</sub> under wide experimental conditions	<u>Mai S. Abd-El-</u> <u>Maqsoud</u>
12:15 ~ 12:30	Role of some plating parameters in the properties of electroless Ni-	<u>Fakiha El-Taib Heakal</u>

P/Al<sub>2</sub>O<sub>3</sub> nanocomposite coatings on Mg alloy

**Session 2 - Chairmans: Osama M. SHALABIEA and Abdel-Rahman El-Sayed Mohamed**

11:00 ~ 11:15	<i>Anemone coronaria</i> and its alkaloids: In vivo Antioxidant, Antidiabetic and Antinociceptive Effects	<u>Karim Raafat</u>
11:15 ~ 11:30	Synthesis and antitumor/antiviral evaluation of some 6-thieno-5-cyano-2-thiouracil derivatives and their thiogalactosides analogues	<u>Wesam Saber Shehab</u>
11:30 ~ 11:45	Novel Indolyl-Isoindole Derivatives: Design, Synthesis, and In-vitro Evaluation against different Cancer Cell Lines	<u>Ali S. Younes</u>
11:45 ~ 12:00	Potentiality of Alcoholic Purification of Abu-Zaabal Impure Phosphoric Acid for Selective Ion Exchange Recovery of Uranium	<u>Nasr Abdelaziz</u> <u>Abdelfattah</u>
12:00 ~ 12:15	Evaluation of diagnostic properties of novel oocyst wall protein candidates of <i>Toxoplasma gondii</i>	<u>Doaa Salman</u>
12:15 ~ 12:30	Mechanisms of interferon-beta-induced inhibition of <i>Toxoplasma gondii</i> growth in murine macrophages and embryonic fibroblasts: role of immunity-related GT Pase MI	<u>Motamed Elsayed</u> <u>Mahmoud</u>

**Session 2 - Chairmans: Mohamed Shaker S. Adam and Motamed Elsayed Mahmoud**

11:00 ~ 11:15	Application of MWCNTs Reinforced with Poly Conducting Polymers as a Novel Adsorbent for Methylene blue and Lead ions from Aqueous Solution	<u>Amina A. Attia</u>
11:15 ~ 11:30	Photocatalytic degradation of RR84 azodye using ZnO and modified ZnO nanoparticles prepared by various methods	<u>Mostafa M. Emará</u>
11:30 ~ 11:45	A Bio-Composite made from Non-Woven Banana Fibres and Banana-sap based Bio-Resin	<u>V Paul</u>
11:45 ~ 12:00	Heterocyclization of 2-pyridone derivatives: Synthesis and anticancer evaluation of some condensed pyridine derivatives	<u>Mohamed G. Assy</u>
12:00 ~ 12:15	Muon capture on the deuteron	<u>A. E. Elmeshneb</u>
12:15 ~ 12:30	Identification of organic additives in historic mortars used in some Byzantine sites in Egypt	<u>A. Osman</u>

12:30 ~ 13:00

**Coffee Break**

**Session Separation**

**Session 1 - Chairmans: E.M.M. Ibrahim and Abdelqader Imragaa**

13:00 ~ 13:15	Glycine Capped SnO <sub>2</sub> Nanoparticles: Synthesis, Photophysical Properties and Photodegradation Efficiency	<u>H. S. El-Sheshtawy</u>
13:15 ~ 13:30	Photoinduced Electron Transfer Mechanism for Photodegradation of Eriochrome Black T by ZnO Nanoparticles	<u>Ibrahim El-Mehasseb</u>
13:30 ~ 13:45	Relationship between phosphorus status and nitrogen fixation by common beans ( <i>Phaseolus vulgaris</i> L.) under drip irrigation	<u>Hesham Aslan Attar</u>
13:45 ~ 14:00	Miscibility and Thermal Behavior of Poly (Methyl Methacrylate) and Polystyrene blend using Benzene as a common Solvent for blending	<u>Musa Kaleem Baloch.</u>
14:00 ~ 14:15	Using Natural Dyes in Restoration of Ancient Manuscripts	<u>Mohamed Marouf</u>
14:15 ~ 14:30	Interstellar Space Chemistry: An Overview	<u>Osama M.</u> <u>SHALABIEA</u>
14:30 ~ 14:45	Theoretical study of the clusters (ZnO) <sub>6</sub> ; X=O, S, Se, Te by using DFT and TDDFT	<u>Nour El Houda</u> <u>Bensiradi</u>
14:45 ~ 15:00	Impacts of the pore- and petro-fabrics on porosity exponent and lithology factor of Archie's equation for carbonate rocks	<u>Bassem S. Nabawy</u>

**Session 2 - Chairmans Nazik A. Elgindy and Emad Mohamed Ebrahim Bayoume**

13:00 ~ 13:15	Synthesis and Antimicrobial Activities of New Chiral Linear Dipeptide Candidates Using Nalidixic Acid and Amino Acids as Starting Materials	<u>Nagy mahmoud Khalifa</u>
13:15 ~ 13:30	Kharasch Addition of Tetrachloromethane to Terpenic Alkenes Catalyzed by Metal Acetylacetonates	<u>Larbi El Firdoussi</u>

13:30 ~ 13:45	Determining the quality of rainwater in the Algiers region for reuse. Physico-chemical characterization.	<u>Benrejidal Fazia</u>
13:45 ~ 14:00	Synthesis, Antiproliferative, and anti-tubulin Activity of Novel 1,2,4-Triazoles as potential combretastatin analogues	<u>Muhamad Mustafa</u>
14:00 ~ 14:15	A Fluorescent Bichromophoric "off-on-off" Switch Sensor for pH and its Ability to Work as a Digital Molecular Half Subtractor and Comparator	<u>Awad I. Said</u>
14:15 ~ 14:30	Dry Sliding Wear of AZ31 and AZ31-5.6 Wt. % Ti Composite Reinforced with Nano-Sized Alumina Particulates	<u>Nariman E. Elbaly</u>
14:30 ~ 14:45	Study of Some Physical Properties of Some Composite Ferrite	<u>Osama mohamed Hemeda</u>
14:45 ~ 15:00	Engineering Properties of Alkali Activated Slag Cement Containing Reactive Magnesia	<u>H.A. Abdel-Gawwad</u>

**Session 3 - Chairmans M. A. Abu-Saied and Muhammad Saeed**

13:00 ~ 13:15	Asymmetric One Pot Synthesis of Novel Pyridazino[1,6]Naphthyridines and Evaluation of their Antibacterial Activity	<u>Noha Mohamed Hilmy</u>
13:15 ~ 13:30	Use of HPLC in lambda-cyhalothrin analysis in kales, tomatoes and cabbages from a rural setting in kenya	<u>J.G.N Kithure</u>
13:30 ~ 13:45	Synthesis, Characterization, Anti-cancer, Anti-oxidant and Biological Activity of moxifloxacin-benzimidazole mixed ligands Complexes	<u>Amina Abdel Salam Soayed</u>
13:45 ~ 14:00	Activation of Granulated Blast-Furnace Slag Using Lime Rich Sludge in Presence and Absence of Rice Husk Ash	<u>Saleh Abd El-Aleem Mohammed</u>
14:00 ~ 14:15	Design and evaluation of a new ligand with highly extractability and selectivity for palladium from simulated spent catalyst dissolver	<u>Emad A. Mowafy</u>
14:15 ~ 14:30	Kinetics and Thermodynamics of Sorption of 4-Nitrophenol on Activated Kaolinitic Clay and <i>Jatropha Curcas</i> Activated Carbon from Aqueous Solution	<u>Samsudeen O. Azeez</u>
14:30 ~ 14:45	Corona Discharge Plasma for Degradation of Organic Contaminant in Industrial Wastewater Treatment	<u>Ahmed H. El-Shazly</u>
14:45 ~ 15:00	Bisthiourea Based Facile Synthesis of Iminothiazolidinone Scaffold	<u>Hummera Rafique</u>

15:00 ~ 17:00

**Lunch**

20:00 ~ 22:00

**Dinner**

**Tuesday, August 09**

**Chairman: Ahmad Al sabagh and Ibrahim M. El-Sherbiny**

9:00 ~ 9:30	Chemical and Analytical aspects of Cannabis sativa	<u>Mohamed M. Radwan</u>
9:30 ~ 9:50	Conversion of Agricultural Residues into Nano-Porous Activated Carbons	<u>Kamal M.S. Khalil</u>
9:50 ~ 10:10	Shell-crosslinked zein nanocapsules for oral co-delivery of exemestane and resveratrol in breast cancer therapy: In-vitro characterization, bioavailability and anti-tumor efficacy	<u>Nazik A. Elgindy</u>
10:10 ~ 10:30	Recent Trends in Antimicrobial Polymers	<u>El-Refaie Kenawy</u>
10:30 ~ 1100	Arab Academy for Science, Technology and Maritime Transports- Lecture	<u>Alaa Abdul Wahid Abdul Bari</u>

11:00 ~ 12:00

**Closing Ceremony**