



Renewable Energy and its Applications
The 6th Conference of College of Science University of Kerbala
21 - 22 Feb.2018

جدول توقيات المؤتمر العلمي السادس / كلية العلوم – جامعة كربلاء



Renewable Energy and its Applications
The 6th Conference of College of Science University of Kerbala
21 - 22 Feb.2018

First Session - Physics / PHY-Hall

Chairman: Prof. Dr. Adie Dawood Salman

Wednesday 21 February 2018

Co-chairman: Assist. Prof. Dr. Abdalsattar K. Hashim

| Time | Researcher's name | Research title |
|-------|--|---|
| 11:00 | Hassan Talal Jaafar, .Balkees Mohammed Diaa and Hanaa Jawad Kadhim | Fabrication of Hydrophobic Nano Composites Coating Using Electro Spinning Technique for Various Substrates |
| 11:10 | Itimad K. Hassan, Maysoun J. Zaiter, Milad A. Mahmood and Ethar M. Jassar | Chemical Mechanism of Conversion Reactions of Biofuel Production |
| 11:20 | Iman Tarik AL-Alawy, Raghad S. Mohammed, Haider Rayed Fadhil and Aqeel Adil Hasan | Determination of Radioactivity Levels, Hazard, Cancer Risk and Radon Concentrations of Water and Sediment Samples in Al-Husseiniya River (Kerbala, Iraq) |
| 11:30 | Mohammed Ubaid Hussein and Rana Talb Mohsen | Ambient Decontamination by Non -Thermal Plasma in Atmospheric Pressure Air |
| 11:40 | S. Abdulmohsin | Facile Synthesis of PANI-SWNT Nano Composite -Based Hole Transport Materials for Highly Efficient – Based ZnO NW Solid-State Dye-Sensitized Solar Cells |
| 11:50 | Samah Shyaa Oudah, Firas A. Hadi and Rafa A. Al-Baldawi | Hypothetical Wind Energy Project by using Simulated and Measured Data |
| 12:00 | Ali H. Al-Hamdani, Abeer Faris dawood, Khudhayer N. Abdullah, Hashim Mohammed Hasan, Mahdi Sarhan, Haider Shareef and Rawshan Tarik | Potential of Renewable Energy in Al-Fourat Al- Awsat: Al Najaf City Case Study |
| 12:10 | Omer Khalil Ahmed and Shaimaa Mohammed Bawa | The Combined Effect of Nano-Fluid and Reflective Mirrors on the Performance of the PV/Thermal Solar Collector |
| 12:20 | Ali K. Resen, Amani Altememee and Kamal H. Lateef | Evaluation Efficiency of Wind Turbines for Barjisiah (South of Iraq) Wind Plant |
| 12:30 | Ehssan S. Hassan, Marwa Abdul Muhsien Hassan, Abdulhussain K. Elttayef, Suzan Hadi Mustafa and Mohammed Hadi Salim | Synthesis of Nanostructured Silver Oxide Films by RF Reactive Magnetron Sputtering Technique |
| 12:40 | Rusul Adnan Al-Wardy | Preparation and Study Effect Deposition Times on Optical Properties of CdS Thin Films |



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|-------|---|--|
| 12:50 | Isam M. Ibrahim, Abeer H. Khalid and M. H. A. Wahid | Enhancement of MEH-PPV: CNT for H ₂ S Gas Sensor |
| 1:00 | Ahmed Hassan Ali and Ali A. Risn | Treatment of Industries Wastewater Using Solar Light |
| 1:10 | Yaseen H. Mahmood, and Rafa Y. J. Al-Salih | Experimental Study of Two Different Types of Solar Dish Characteristics and its Efficiency Based on Iraqi Weather Conditions |
| 1:20 | Raed Shekir | Prediction Void Fraction in Differece Subcooling Boiling into Parallel Micro - Channeles Heat Sink |
| 1:30 | Hassan Kamil Jassim and Wafaa Abd Al- Abass Shahab | Fractional Vibrational Iteration Method to Solve One Dimensional Second Order Hyperbolic Telegraph Equations |
| 1:40 | Ahmed H. Ali and Akram M. Ali | Reduced Quadruple Transition Probability B(E2) for Some Oxygen Isotopes Using Different Interactions and Effective Charges |
| 2:00 | Hadi J. M. Al-agealy, Mohsin A. Hassooni, Abbas K. Sadoon, Hind A. Mahdi, Raad H. Majeed, Shatha H. Mahdi and Rawnaq Q. Ghadhban | Theoretical Analysis of Charge Flow Rate at Dye Sensitized-Semiconductor Interfaces Cell System |



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First Session - Physics / PHY-Hall

Chairman: Prof. Dr. Ahmed Mehmood Abdul-Lettif

Thursday 22 February 2018

Co-chairman: Asst. Prof. Dr. Jassim Taleb Mahdi

| Time | Researcher's name | Research title |
|-------------|---|---|
| 9:00 | Yaseen H. Mahmood and Rafa Y. J. Al-Salih | Design and Fabrication of Hydrogen Production System |
| 9:10 | Fawaz S. Abdullah, Safwan A. Hamoodi and Ali N. Hamoodi | Modeling of Electrical Characteristics of Photo Voltaic and Effecting of Cell Parameters on P-V and I-V Curves |
| 9:20 | Hussein K. Jobair, Oday I. Abdullah and Zainab M. Atyia | Feasibility Study of a Solar Flat Plate Collector for Domestic and Commercial Applications under Iraq Climate |
| 9:30 | Shafik S. Shafik and Shaymaa M. Qaddoori | Urinary excretion as a Function of Uranium Concentration in Bladder Cancer Patients Using Kinetic Phosphorimetry Analyzer |
| 9:40 | Mohammed T. Hussain and Emad J. Mahdi | Assesment Of PV Potential Maps in Iraq |
| 9:50 | Hussein Humaish, Laurent Marmoret and Hassen Beji | Heat loss through Windows by Using Guarded Hot Box (GHB) |
| 10:00 | Marwa Abdul Muhsien Hassan, Asma H. Mohammed and Emad Jalel Ibrahim | Synthesis of Semiconductor Oxide Nano-Rod and Nanotube Using Chemical Method |
| 10:10 | Abdul hussain A. Khadayaeir, Hamid Al-Jibbouri and Ahmed Hmeed Wanas | Study of The Effect of Deposition Time and Magnetic Field on Thickness, Structural and Optical Properties of Thin Films Al ₂ O ₃ Prepared by Magnetron Sputtering |
| 10:20 | Ahmed A. Anber, Mohammed S. Essa, Ghada A. Kadhim and Shaymaa S. Hashim | Preparation of Nanoparticles Copper Oxide Using an Atmospheric-Pressure Plasma Jet |
| 10:40 | Naseer K. Kasim, Ahmed F. Atwan and Fadhil Muhmood Eliewi | Improve the Performance of Solar Collectors by Reflectors |
| 10:50 | Bashar Mohammed Salih, Rasha A. Mohmeed and Mohammed Ahmed Ibrahim | The Environment Coefficient Effect on I-V and P-V Characteristics Curves of Photovoltaic Cell Using Mat lab/Smiling |
| 11:00 | Hassan Talal Jaafar, Balkees Mohammed and Hanaa Jawad Kadhim | Fabrication of Hydrophobic Nanocomposites Coating Using Electrospinning Technique for Various Substrate |



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Second Session - Physics /PHY-Hall

Chairman: Prof. Dr. Khawla Jamil Taher

Thursday 22 February 2018

Co-chairman: Asst. Prof. Dr. Mohamed Abdelhour Kazem

| Time | Researcher's name | Research title |
|-------|---|--|
| 9:00 | Ahmed F. Mohamed and Wasan R. Salah | Synthesis of ZnS Quantum Dots for QDs-LED Hybrid Device with Different Cathode Materials |
| 9:10 | Harith I. Jaffer, Nadia A. Ali and Seenaa I. Huseen | Application of polystyrene as a coating on Kraft Paper use in Packaging |
| 9:20 | Monim H. Al-Jiboori and Mina S. Qassim | Choosing of Relevant Low Height for Operation Wind Turbine over Urban Baghdad City |
| 9:30 | Basher Hasan, Mutawer Redah, Shrok allami Hayder Hamody and Zainab D. Abd Ali | Using Cheap Membrane in Two-Chamber Microbial Fuel Cells (MFCs) for Petroleum Refinery Wastewater Treatment |
| 9:40 | Sana Juma Ali Al-Tamimi, Hanaa Mohammed Ibrahim and Ahmed N. Abd | Fabrication and Characteristics Study of Bismuth Oxide /Silicon Hetero Junction for Photo-Detector Applications |
| 9:50 | AzherM.Abed, Hasan Sh. Majad , K. Sopian and Ammar Abdulkadhim | Evaluation and Optimization of Solar Assisted Absorption Refrigeration Cycle by Using a Multi Ejectors |
| 10:00 | Hussain Zaydan Ali, Ali M. AL-Salihi and Ahmed K. AL-Abboudey | Using GIS Kriging Techniques and Cross Validation Criteria for Solar Radiation Maps Production Over Iraq |
| 10:10 | Noor al-huda Yaarub, Saif M. Al-Shirefy, Faisal A. Mustafa, Ayad F. Al-Kaim and Rafea Tuama Ahmed | Effect of Thermal Variations on Some Nanostructuraland Optical characterizations of Element Oxides Compound (Y_2O_3/Fe_2O_3) Prepared Using Laser Ablation |
| 10:20 | Falah I. Mustafa, Atheer Al- Sudani and Haitham Al-Qazzaz | Water Battery Cell Green Energy using Carbon-PMMA Sandwich Layer with Cu - Zn Electrodes |
| 10:30 | Doha Al-Feadh, Ali AL-Bekheet and Wathiq Al-Ramdhan | The Effect of Solar Eruption Propagation on The Promulgation of Solar Energetic Particles |
| 10:40 | Mohammed S. Mohammed and Ruqaya A. Shlaga | Reflectivity Effect of the PS on Solar Cell Efficiency |
| 10:50 | Aseel Mustafa Abdul Majeed, Itab Fadhil Hussein and Ahmed Fadhil Mkhaiber | Producing High Purity of Metal Oxide Nano Structural using Simple Chemical Method |
| 11:00 | Ali Hamid Abdulsada, Khudheir A Mishjil and Ahmad Naji Abd | Effect of Thermal Annealing on Properties of Polycrystalline Titanium Dioxide (TiO_2) Thin Filmprepared by Simple Chemical Method |



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Second Session - Physics /PHY-Hall

Chairman: Prof. Dr. Fadel Khaddam Fleifel

Thursday 22 February 2018

Co-chairman: Asst. Prof. Dr. Mohammed Abdel Hussein

| Time | Researcher's name | Research title |
|-------------|--|---|
| 11:10 | Mohammed Hadi Shinen S. A. A. AlSaati and Fouad Z. Razooqi | Preparation of High Transmittance TiO ₂ Thin Films by Sol-Gel Technique as Antireflection Coating |
| 11:20 | Mohammed Abdulhur Kadhim Mankoshi, Falah I. Mustafa and Nora J. Hintaw | Influence Temperature of Annealing on Structural and Optical Properties of CIGS Thin Films for Using in Solar Cell Applications |
| 11:30 | Bushra A. Hasan, Duaa A. Umran and M. A. Kadhem | Characterization of CuInS ₂ /CdS Hetero junctions |
| 11:40 | Wisam J. Aziz, Raad S. Sabry and Abbas K. Jarallah | Effect Shapes of Nano Rods, Nanowires and Nano Belts TiO ₂ on the Degradation of MB Photo Catalyst. |
| 11:50 | Balqees A. Ahmed, Ikhlal H. Shallal and Falah Mustafa AL-Attar | Structural, Electrical and Optical Properties of CdS, CdTe and CIGS Thin Films for Solar Cell Application |
| 12:00 | Ali Najah Al-Shamani, K. Sopian and Azher M. Abed | Enhance the Performance Of Hybrid Solar PV Module Using TiC Nano-Fluids: Numerical Evaluation |
| 12:10 | Dhafer Manee Hachim AL-Hasnawi, Ali Abdulabbas Abdullah and Furkan Kamil | Novel Technique for Photovoltaic Solar Cell Efficiency Enhancements by Coating with Chlorophyll |
| 12:20 | Hasan T. Hashim | Energy Harvesting of Thermoelectric Generator via an Electrical Oven |
| 12:30 | Aseel A. Ouda, Firas K. Mohamad Alosfur, Noor J. Ridha and Saleh H. Abud | Facile method to Synthesis of anatase TiO ₂ nanorods |
| 12:40 | Ahmad A.Hasan | Dielectric Properties of EP/PU Blends |
| 12:50 | Samah Shyaa Oudah and Firas A. Hadi | Pre-feasibility Study of Hypothetical Wind Energy Project Using Simulated and Measured Data |



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First Session - Chemistry/CH-Hall

Chairman: Assist. Prof. Dr Haidar Hamid Mohsen

Wednesday 21 February 2018

Co-chairman: Lect. Dr. Thaeer Mahdi Meddul

| Time | Researcher's name | Research title |
|-------------|--|---|
| 11:00 | Firas H. Abdulrazzak and Falah H. Hussein | Enhanced Photo Catalytic Hydrogen generation of TiO ₂ by Single and Multi-Walled Carbon Nanotubes |
| 11:10 | Faiz M. Al-Abady | Quantum-Chemical Calculation Methods to Determine the Octane Number of Gasoline Derivatives |
| 11:20 | Sajed Hussien Gzar and Abdalatif Abdalkadhium Mashaf | A study of Some Trace Elements in Samples of Cutting Rocks and Crude Oil for Three Wells in Misan Oil Fields |
| 11:30 | Israa kamil Ahmed | Study Distribution of Some Heavy Elements Concentration in Fly Ash Samples from Thermal Electric Power Stations in The Middle and South of Iraq |
| 11:40 | Taghreed M. Musa, Mahmoud N. Al-jibouri and Redha I. Hussain Al-bauati | Synthesis, Characterization and Antimicrobial Study of Nickel(II), Palladium(II), Platinum(II), Rhodium(III), Cadmium(II) and Zirconium(IV) Complexes (E)-1-(benzo[d] Thiazol-2-yl)-4-(Hydroxy(2-Hydroxyphenyl) methylene)-3-Methyl-1H-Pyrazol-5(4H)-One |
| 11:50 | Ahlam M. Farhan, Harith I. Jaafer and Nafeesa J. Kadhim | Anticorrosion behavior of Deposited Magnetite on Galvanized Steel in Saline Water Using RF-Magnetron Sputtering |
| 12:00 | Zeid Hassan Abood, Hussein Ali Qabel and Hayder Raheem Ali | Microwave Synthesis of 2,3-Disubstituted-5-Methyl-1,3-Imidazolidines-4-One Bearing Benzothiazole Moiety and Preliminary Evaluation of Their Antibacterial Activity |
| 12:10 | Eman Abdul Wahab Alkuwaity, Adraa Abdul Kadhim Wasaf | Synthesis and Study The Behavior of Liquid Crystalline Phases of New Heterocyclic Compound from Folic Acid |
| 12:20 | Taghreed M. Musa and Taleb M. Khrabit | Ag(I) Complex and Mixed-Ligand Complexes of Some Metal Ions Ni(II), Pd(II), Pt(II), Cu(II) and Zn(II) Derived from 2-[4-(n-butyl phenyl)-5-(4-n-octyloxy phenyl)-1,3,4-oxadiazole] as Primary Ligand and Sodium (4-methylbenzyl) propan-2-ylcarbamodithioate as Co-ligand and their Spectral Studies, Biological Activity |



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| 12:30 | Kharia Salman Hassan, Ahmed Ibrahim Razooqi and Munaf Hashim Ridha | Corrosion conduct of Austenitic Stainless Steel 316L Subjected to Surface Treatment |
| 12:40 | Basher H. Jawed, Zainab D. Abd Ali and Shrock Allami | Ammonia as Hydrogen Storage Media, Sustainable Method to Evaluated Hydrogen |
| 12:50 | Rehab A. M. Al-Hasani, Anaam M. Rasheed and Sinan M. M. Al-Bayati | Synthesis, Structural Study and Biological Activity of Co(II), Ni(II), Cu(II), V(IV) and Zr(IV) Complexes of Some Pyrimidine Derivatives |
| 1:00 | Mohammed Turki Khathi and Huda T. K. | Study of Adsorption of Cd(II) Ions from Aqueous Solutions by Preparation and Characterization of Nano Particles of Fibers, Petiole and Seeds of Palm |
| 1:10 | Abdulbari Mahdi and Zainab Abas | Spectrophotometric Determination of Meeberrie Hydrochloride in Pharmaceutical Preparation via Ion Association Reaction |
| 1:20 | Abdulqadier H. Al khazraji, O. S. Dementyeva, Z. Pastukhova, M. V. Kulikova and Vitaly R. Flid | Comparative Study of Iron Nano-Catalysts in the Presence of the Crude Polymer Matrix and the Their Cross Linked Polymer in The Fischer Trophic Synthesis |
| 1:30 | Hayder Hamied Mihsen and Nesser Shareef Kadham | Synthesis, Characterization of Mixed- Ligand Complexes Containing 2,2-Bipyridine and 3-aminopropyltriethoxysilane |
| 1:40 | Joda A. Baker and Neil I. Ward | Determination of Minor Elements of Human Scalp Hair from Kerbala, Iraq |
| 1:50 | Motawer R. Mohamed Ali, Basher H. Jowad, Shrok A. Allami, Hieder H. Abd and Zainab D. Abd Ali | Storage of Hydrogen into Oils |
| 2:00 | Muna Khethier Abbass, Sami Abualnoun Ajeel and Haitham M. Wadullah | Biocompatibility, Bioactivity and Corrosion Resistance of Stainless Steel 316L Nanocoated with TiO ₂ and Al ₂ O ₃ by Atomic Layer Deposition Method |
| 2:10 | Ahlam.M.Farhan, Abdul- Hussain K. Elttayef, Ashwaq A. Jabor and Afrah A. Jabor | Preparation Poly 4-Bromo aniline Thin Film by Electro Deposition Technique for Hydrogen Gas Sensor |



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First Session - Biology/BI-Hall

Chairman: Prof. Dr. Haidar Hashim Mohammed Ali

Wednesday 21 February 2018

Co-chairman: Assist. Prof. Dr. Jassim Hanoun Hashim

| Time | Researcher's name | Research title |
|-------------|--|---|
| 11:00 | Husam M. Kredy, Mohsin E. Aldokheily and Ibrahim H. Khlewy | Comparison of Mixed Ultrasound Waves with the Extracts of Nerium oleander L. on the Growth of Cyprid Barnacles <i>Balanus Amphitrite</i> Amphitrite |
| 11:10 | Ekhlas. M. Farhan, Rukaibaa A. Chechan and Ziena M. Abdul Qader | The Protective effect of Various Doses of Local <i>Pleurotus Ostreatus</i> extract Against Genotoxicity Induced by Cyclophosphamide in Mice Bone Marrow Cells |
| 11:20 | Manal Abd-Alwahed Alsirrag and Riyadh Shamkhi Ali | Experimental Studies for Microbial and Antioxidants Activity of Oil Extract from <i>Salvia przewalski</i> seed Against Some of Pathogenic Bacteria |
| 11:30 | Ahmed Hussein Zwamel, Anam Rasheed AL-Salihi and Sabah Nasser Alwachi | Assessment of the Soluble form of Fas Ligand in Patients with Asthenozoospermia and Teratozoospermia. |
| 11:40 | Alaa J. Mahrath, Tariq H. Al-Mgheer and Enaam I. Yousif | Biotechnology and Biochemical Analysis Technique to Isolate Vanillin Derivatives for Plum Fruit Tree (I) |
| 11:50 | Mueyyed Akram Arslan and Mahmoud Raid Ahmed | Recycling Solid Waste and its Effect on the Properties of Green Concrete |
| 12:00 | Mahmoud S. Thamir | An epidemiologic Study on <i>Cryptosporidium</i> Among Children in Basra Province-Iraq |
| 12:10 | Wafaa AL-Wazni, Runa Abdulhamza and Sahar Abdulridha | Antibacterial Activity of Pomegranate Molasses (alone and in Combination with Ampicillin and Ciprofloxacin) on Multidrug Resistant <i>Serratia Marcescens</i> |
| 12:20 | Basher H. Jawad, Shrok A. Allammi, Motawer R. Mohamed Ali, Hieder H. Abd and Zainab D. Abd Ali | Single Chamber Microbial Fuel Cell (SMFC) for Energy Generation and Biochemical Oxygen Demand (BOD) Biosensor of Multi Type Wastewater |



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First Session - computer/CS-Hall

Chairman: Lect. Dr. Ashwaq Mahmoud Mohsen

Wednesday 21 February 2018

Co-chairmna: Lect. Dr. Iyad Hamid Musa

| Time | Researcher's name | Research title |
|-------------|--|---|
| 11:00 | Amel H. Abbas and Marwa A. Shamel | Automatic Detection Normal and Defects of Citrus Uranium Using Computer Vision |
| 11:10 | Haydar Abdulameer Marhoon, M. Mahmuddin and Shahrudin Awang Nor | Performance Evaluation of CCM and TSCP Routing Protocols within/without Data Fusing in WSNs |
| 11:20 | Wafaa S. AL-Baldawi | Designing and Conducting an Empirical Experiment Comparing Two Websites |
| 11:30 | Azhar. A. Sangoor and Alyaa A. Alwan | Anti-Fuzzy Graph |
| 11:40 | Ahmed Aliwy, Kadhim Aljanabi and Zena Abd Al-Retha Abo- Altaheen | Improving Arabic Text Classification using Master-Slaves Technique |
| 11:50 | Ammar A. Altameemi and Ahmed H. Alrubai | Impact of an On-Line Health Safety Exam on the Students of College of Science Laboratories |
| 12:00 | Enas Ali Mohammed | Mapping the Spatial Distribution of Crimes in Iraq |
| 12:10 | Hussein A. Mohammed, Baha'a A. M. Al- Hilli and Intisar Shadeed Al-Mejibli | Smart System for Dust Detecting and Removing from Solar Cells |
| 12:20 | Enas Ali Mohammed | Assessing Land Cover/Use Changes in Kerbala City (Iraq)using GIS Techniques and Remote Sensing Data |
| 12:30 | Abdulrahman K. Abbas, Hassan N. S. AL-Joboory and Hashim A. Mahdi | Performance Analysis of Wind Turbine in Iraqi Climate Using Mat lab/ Simulink Program |
| 12:40 | Noor D. AL-Shakarchy, Huda F. AL-Shahad and Dhamyaa A. AL-Nasrawi | Cryptographic System Based on Unicode |
| 12:50 | Huda Hallawi, Jörn Mehnen and Hongmei He | A Comparison of Resource Allocation Process in Grid and Cloud Technologies |