

The Fifth Hybrid International Conference on Molecular Modeling and Spectroscopy

17th-19th September 2023, Cairo, Egypt



Under the Auspices of

Prof. Hussein Darwish

Acting President of the National Research Centre, NRC

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Prof. Hanan Elhaes

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Prof. Walid Tawfik

Conference Honorary Chairperson

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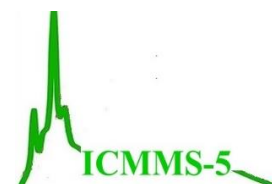
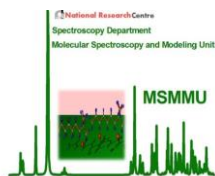
Science Café Team

Prof. Medhat A. Ibrahim
Prof. Hanan Elhaes
Dr. Amina Omar
Dr. Hend Ezzat
Dr. Ahmed Refaat
Mrs. Asmaa Ibrahim

Sustainable Development Team

Prof. Medhat A. Ibrahim
Prof. Hanan Elhaes
Mr. Madgy Sabek
Mr. Islam Gomaa
Mrs. Asmaa Ibrahim

Sponsorship



Conference Program

First Day: Sunday - September 17, 2023

Time	Session
09:00	Registration
10:00	S01: Opening Session Opening and Welcome Speeches KNL-01; KNL-02
11:00	Break
11:30	S02: Oral Session-1 KNL-03 O-05 to O-13
13:30	Open Discussion
14:00	Break
14:15	S03: Oral Session-2 KNL-04; KNL-05 O-14 to O-15
15:45	Open Discussion
16:00	S04: Oral Session-3 O-16 to O-27
18:00	Open Discussion

Second Day: Monday - September 18, 2023

Time	Session
09:30	S05: Oral Session-4 KNL-06; KNL-07 O-28 to O-32
11:30	Open Discussion
11:45	S06: Oral Session-5 KNL-08; KNL-09
13:00	Open Discussion
13:15	Break
13:30	S07: Oral Session-6 KNL-10 O-33 to O-39
15:40	Open Discussion
16:00	S08: Poster Session-1* Open Discussion P-01 to P-25
18:00	S09: Oral Session-7** Science Café

*S08: Poster Session-1 will be all the Day on Science Café YouTube Channel

**S09: Oral Session 7 will be all the Day on Science Café YouTube Channel

<https://youtube.com/@sciencecafe9129?feature=shared>



Third Day: Tuesday - September 19, 2023

Time	Session
09:30	S10: Oral Session-8 KNL-11; KNL-12
10:45	Open Discussion
11:00	S11: Oral Session-9 O-40 to O-47
12:30	Open Discussion
12:45	Break
13:00	S12: Poster Session-2* P-26 to P-53 Open Discussion
13:00	S13: Oral Session-10** Science Café (Parallel Session) O-48 to O-52
15:15	Recommendations & Closing Ceremony

***S12: Poster Session will be all the Day on Science Café YouTube Channel**

****S13: Oral Session-10 will be all the Day on Science Café YouTube Channel**

<https://youtube.com/@sciencecafe9129?feature=shared>

List of Abbreviations

KNL: Keynote Lecture

O: Oral Talk

SC: Science Cafe

P: Poster

List of Keynote Lectures

No	Title
KNL-01	On the Recognition of Prof. Amr M. Abdelghany ICMMS-5 Conference
KNL-02	Eco-Friendly Cost-Effective Microsphere for Multiple Applications Prof. Medhat A. Ibrahim
KNL-03	Green Separation-Preconcentration Procedures for Trace Organic and Inorganic Species from Environmental Samples Prof. Mustafa Soylak
KNL-04	The Sorption Processes of Organic Molecules on SiO ₂ Surface: The Experimental and Molecular Dynamics Studies Prof. Kholmirzo T. Kholmurodov
KNL-05	Photoinduced NETosis Prof. Arzumanyan Grigory
KNL-06	A Nanoscale “Yardstick”: Fluorescence Resonance Energy Transfer and Its Applications in Macromolecular Structure and Dynamics



	Prof. Mekki Bayachou
KNL-07	Metal-based Catalytic Materials and Their Applications in Electrochemical Hydrogen Conversion Prof. Yujing Li
KNL-08	Pharmaceuticals as Emerging Contaminants of River Ecosystems: Old and New Challenges Prof. Paola Grenni
KNL-09	Zebra Fish: The Little Creature whose Contribution Changed Biomedical Research Prof. Wafa I. Abdel-Fattah
KNL-10	Recent Applications of Laser-Spectroscopy in Biomedicine and Environmental Pollution Prof. Walid Tawfik
KNL-11	Characteristic Features of Photoionization of Fe XVIII for the Opacity of Solar Plasma Prof. Sultana Nahar
KNL-12	International Society of Muslim Women in Science (ISMWS) ISMWS CHARTER Founder: Prof. Sultana N. Nahar Prof. Sultana Nahar

List of Oral Talks

No	Title
O-01	Preface: Welcome Speech Prof. Hanan Elhaes Conference Chairman
O-02	Preface: Welcome Speech Prof. Medhat A. Ibrahim Honorary Conference Chairman
O-03	Preface Welcome Speech: Prof. Samia Gad Acting Dean of Physics Research Institute
O-04	Preface Welcome Speech: Welcome all of You in the Fourth International Conference on Molecular Modeling and Spectroscopy Prof. Hussein Darwish Acting President of National Research Centre
O-05	Assessment of Metal Contents of Children Cosmetics Sold in Turkey Semiha Köprü and Mustafa Soylak
O-06	Dispersive Solid Phase Microextraction of Rhodamine B on Ni@SiO ₂ Microspheres Mustafa Soylak, Eda Bora and Furkan Uzcan
O-07	Hydrophobic Deep Eutectic Solvent Dispersive Liquid-Liquid Microextraction of Indigo Carmine for Spectrophotometric Analysis Nebiye Kizil, Duygu Erkmén Erbilgin, Mehmet Lütfi Yola and Mustafa Soylak
O-08	Recent Progress of Magnetic Covalent Organic Frameworks-Based Adsorbents in Magnetic Solid Phase Extraction of Trace Analytes in Food Samples Qamar Salamat and Mustafa Soylak

- O-09 Graphene Oxide Impregnated Natural Deep Eutectic Solvents for Solid Phase Microextraction for Cd(II) from Food and Water Samples by Flame Atomic Absorption Spectrometry
Mustafa Soylak, Özgür Özalp and Abdul Hameed Kori
- O-10 Development of an Optical Glucose Biosensor by Using Glucose Imprinted Polymer and Immobilization of Glucose Oxidase Enzyme along with a pH-Responsive Dye
Hamid Hashemi-Moghaddam, Qamar Salamat and Mustafa Soylak
- O-11 Determination of Heavy Metals in Halal Certified Cosmetics by ICP-MS
Kamil Gürmen, Uğur Şahin and Mustafa Soylak
- O-12 Efficient Solid Phase Microextraction for Gold and Palladium using ZIF-L(Co)@WSe₂ Nanocomposite
Hassan Elzain Hassan Ahmed and Mustafa Soylak
- O-13 Tailoring and Characterization of ACC with MnCoAl (Layered Double Hydroxide) Nanocomposite as Competent Adsorbent for Pb(II) and Ni(II) Extraction from Environmental Samples.
Muhammad Balal Arain and Mustafa Soylak
- O-14 Effect of Germanium Oxide on the Structural Aspects and Bioactivity of Bioactive Silicate Glass
Taha M. Tiama, Mohamed H. Sharaf and Ahmed F. Mabied
- O-15 Early Prediction of Recurrent Non-Muscle Invasive Bladder Cancer Using ATR-FTIR in Urine Samples
Haitham Kalil, Mekki Bayachou, Ahmed El-Tobgy, Ahmed Mohamed and Abdullah I. El-Falouji
- O-16 Vanadium-Doped MnO₂ Nanocatalyst for Visible-light-driven Photodegradation of Selected Fluoroquinolone Antibiotics from Contaminated Water
Rafi O Zaman Brohi, Muhammad Yar Khuhawar, Rasool Bux Mahar, Medhat A Ibrahim, Awais Ali1 and Muhammad Farooq Lanjwan
- O-17 Experimental and Computational Studies for the Sorption of Mercury (II) from Drinking Water using Bimetallic Nano Particles
Rafi O Zaman Brohi, Muhammad Yar Khuhawar, Rasool Bux Mahar and Medhat A Ibrahim
- O-18 Investigating the Electronic Properties of Edge Glycine Graphene Quantum Dots
Osama Osman
- O-19 Investigating the Electronic Properties of CNT/TiO₂ Nanocomposites
Mohamed Morsy and Mohamed Abdel-Aal
- O-20 Effect of Easley Ionizable Elements on the Vibrational Characteristics of Chitosan
Abdel Aziz Mahmoud
- O-21 Computational Notes on the Metaloprotein Interaction
Mohamed Abdel Aal, Osama Osman and Abdel Aziz Mahmoud
- O-22 Functionalized GQDs with ZnO as Humidity Sensor
Asmaa Ibrahim, Mervat Abd El Aal and Hend A. Ezzat
- O-23 Optical Analysis and UV-Blocking Capacity of Carboxymethyl Cellulose Sodium/ZnO Nanocomposite Films
Rania Badry, Mahmoud M. El-Nahass and Nadra Nada
- O-24 Studying the Electronic Properties of GQDs Doped with Phosphorus and Arsenic
Hend A. Ezzat and Asmaa Ibrahim

- O-25 Microspectroscopic, DFT and QSAR Study of PVP/CaCO₃ Blends as Potential Bone-Remineralization Membranes
Ahmed Refaat
- O-26 Chitosan as Bio-carrier for Protein
Shams Hani
- O-27 Anticorrosion Properties of DGEBA Epoxy Resin Functionalized with G, GO and rGO: DFT Approach
Hend A. Ezzat, Fatma A. Saaid and Shima G. Abdo
- O-28 The Effect of Gamma Irradiation SrO Substitution for CaO Containing Bio Glass on the Physical and Bioactivity
Taha M.Tiama and Mohamed M. Farag
- O-29 Modeling Structure of Soil/Sediment in River Nile Delta Region
Osama Osman and Mohamed Abdel-Aal
- O-30 Effect of SiO₂, TiO₂, and Fe₃O₄ Adsorption Glycine Metabolism in Bacteria for Heavy Metal Water Removal: Theoretical Approach
Noha M. Sabry, Fagr Abdelgawad and Hend A. Ezzat
- O-31 Electronic Properties of Hf, Ag, Cd, Zn, Ce, Nd, Sm-Modified Lead Zirconate Titanate PZT
Rageh A. Hussein
- O-32 DFT Study of the Effect of Potassium on the Electronic Properties and Molecular Electrostatic Potential of Cellulose
Ahmed Refaat
- O-33 Investigation of Parasitic Nematodes Chemotaxis using Laser Beam Ablation
Saly N. Salama, Diaa Atta, Walid Tawfik and Nahla A. Radwan
- O-34 Photosensitive Chitosan Nanoparticles in Cancer Photodynamic Therapy: An In Vitro Analysis
Ahmed Allam, Walid Tawfik, and Souad A. Elfeky
- O-35 Inspection of the Photosensitization Activity of Pheophorbide-a/Chitosan Nanoconjugate as an Antibacterial Agent
Fayrouz Mohamed, Gamal El-ghannam, Walid Tawfik and Souad A. Elfeky
- O-36 Tungsten Disulfide Nanocomposite in Cancer Theranostics
Riham M. A.El-Ghany, Mostafa Zedan, Walid Tawfik, and Souad A. Elfeky
- O-37 Tuning the Structural, Optical, and Photocatalytic Properties of V₂O₅/PMMA Nanocomposite Films for Methylene Blue Photodegradation
Redha A. Alkhadry, Ibrahim S. Yahia, Souad A. Elfeky, Mostafa Zedan, M. I. Mohammed, Diaa A. Rayan and Walid Tawfik
- O-38 Ultrafast Laser Spectroscopy and ICP-OES Assisted Calibration of Toxic Metal Concentrations in Contaminated Agricultural Soils
Mohamed El-Saeed, Walid Tawfik, Ahmed A. I. Khalil, Manal Mubarak and Mohamed Fikry
- O-39 Characterization of Manganese Content in Clover Samples Using Calibration-Free Picosecond Laser-Induced Breakdown Spectroscopy
Noura Fayek, Walid Tawfik, Ahmed KhalafAllah and Mohamed Fikry
- O-40 Subtle Considerations for Experimental EPR Spectroscopy Input Parameters
Ahmed M. Maghraby, Ahmed S. Monem and Hoda M. Eissa

- O-41 Facile Assembly of Flexible Quaternary SnO₂/SrSnO₃/Fe₃O₄/PVDF Nanocomposites with Tunable Optical, Electrical, and Magnetic Properties for Promising Magneto-Optoelectronic Applications
Asmaa M. Ismail and Fawzy G. El Desouky
- O-42 Optimizations of Performance of Cellulose Acetate Modified by ZnSnO₃/ZnO Nanocomposites: Electrical, Dynamic Mechanical Analysis, and Antibacterial Activity
Abdel Hamid M. Hezma, Ahmad M. Labeeb and Fawzy G. El Desouky
- O-43 Structure and Morphological Studies of ZnO Nanorods for Magnesium Concentrations Determination: Mg²⁺- Ion Selective Sensor
Hanan A. Wahab and Inas K. Battisha
- O-44 Investigation of Optical and Dielectric Behavior of Li₂O-Fe₂O₃-P₂O₅ Glasses
Rawia M. Ramadan and Ragab M. Mahani
- O-45 Structural Role of Sodium Ions in Calcium Fluoroborate Glasses; Spectroscopic Study
Eman Khalil, Gomaa ElDamrawi, Amr M. Abdelghany, Rawia M. Ramadan and Yosry M. Moustafa
- O-46 Effect of Micro-Viscosity on the Rotational Diffusion: Pulsed Laser-Based Time-Resolved Single Molecule Study
Diaa Atta and Noha Gweily
- O-47 Electronic Properties of PVC/Metal Oxides Nano Composite
Medhat A. Ibrahim
- O-48 Investigating the Electronic Properties of Polyaniline Emeraldine Based Functionalized with Alkali Metal Oxides
Medhat A. Ibrahim
- O-49 Bena Charity for Sustainable Development, Qalyobia, Egypt.
Magdy Sabek
- O-50 Plastic Waste Management: Global Facts, Challenges and Solutions
Bena Charity for Sustainable Developments, Banha, Qalyobia, Egypt
- O-51 Plastic Waste Management Strategies and Their Environmental Aspects
Bena Charity for Sustainable Developments, Banha, Qalyobia, Egypt.
- O-52 Pottery and Glass as Traditional Handmade Artefact in Egypt
Bena Charity for Sustainable Developments

List of Posters

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P-01	Heavy Metal Oxides PVDF Nanocomposites: Molecular Modeling Approach <u>Hanan Elhaes</u> and <u>Medhat A. Ibrahim</u>
P-02	Spectroscopic Analyses of Chitosan Doped with Lithium <u>Hanan Elhaes</u> and <u>Osama Osman</u>
P-03	Molecular Modeling Analyses for the Effect of Alkali Metal Oxides On PVC <u>Hanan Elhaes</u>, and <u>Medhat A. Ibrahim</u>
P-04	DFT Analyses of PVVA/CaO Nano Composite <u>Fatma Attia</u>, <u>Amr Abdel Ghany</u> and <u>Nadraa Nada</u>
P-05	Computational notes on the Analyses of Flutamide

- Mohamed A. M. El-Mansy, Osama Osman and Abdel Aziz Mahmoud**
- P-06 Electronic Properties of PANI/Graphene/PVDF/PTFE Nanocomposite
Aya Allah Mahmoud and Rasha M. Khafagy
- P-07 Effect of Lithium as a Monovalent Alkali Metal on the Electronic Properties of Cellulose – DFT Approach
Ahmed Refaat
- P-08 DFT/B3LYP Hybrid Functional Study of the Electronic Properties of Hydrated and Non-Hydrated Sodium-Substituted Cellulose
Ahmed Refaat
- P-09 DFT Study for Glycine Metabolism in Bacteria Interacted with CuO, MgO and FeO Nanometal Oxides
Noha M. Sabry, Fagr Abdelgawad and Hend A. Ezzat
- P-10 Removal of Atrazine from Contaminated Water by Functionalized Graphene Quantum Dots
Ahmed Hellal, Hazem Abdelsalam and Walid Tawfik
- P-11 Si₂BN Quantum Dots as an Efficient Detector of Carbamazepine in Aqueous Environment
Nada Elbendary, Hazem Abdelsalam, Walid Tawfik and Mostafa M. H. Khalil
- P-12 Determination of Carmosine Dye from Samples Containing Various Food Dyes by Deep Eutectic Solvent-Based Liquid-Liquid Microextraction Method
Özgür Özalp, Merve Nur Kaynak and Mustafa Soylak
- P-13 Deep Eutectic Solvent Liquid Phase Microextraction Powered by Ultrasonic System of β -carotene
Nebiye Kizil, Buse Bozan Beydağı, Mehmet Lütfi Yola and Mustafa Soylak
- P-14 Spectroscopic, Experimental and Theoretical Studies on N-ethyl-2-(1-(naphthalen-1-yl)ethylidene)hydrazine-1-carbothioamide Complexes: Structural Characterization, Theoretical DFT, Biological Evaluation, Molecular Property and Drug-Likeness Prediction
Eida S. Al-Farraj
- P-15 Novel Fe(III), Mn(II), and Ni(II) Complexes of Thiazole Carbamothioyl Benzamide Derivative: Synthesis, Structural Characterization, Computational, and Biological Potency
Eida S. Al-Farraj, Mohammed M. El-Gamil and Kareem A. Asla
- P-16 Experimental and Theoretical Studies of Some Propiolate Esters Derivatives
Asmaa M. Fahim and Amr Mohamed
- P-17 Impact of Lead Oxide on the Structure, Optical, and Thermal Properties of Lithium Diborate Glass Doped with Copper Oxide
Ismail Kashif and Asmaa Ratep
- P-18 Environmentally Friendly Mesoporous SiO₂ with Mixed Fiber/Particle Morphology and Large Surface Area for Enhanced Dye Adsorption
Asmaa M. Ismail, Ahmed Samy and Heba Ali
- P-19 Overcoming Tea-Drinking Limitation by Fortification of Iron Bio-Absorption: Anemia Inhibition
Menna M. El-Beshlawy
- P-20 Isonicotinohydrazide Chalcone and Its Ni Complex as Corrosion Inhibitors During Acid Cleaning: Theoretical and Experimental Approaches

- Adel Attia, Asmaa Aboelnaga and Asmaa M. Fahim**
P-21 XRD and UV-Vis Studies of Cellulose Acetate Film Blended with Different Concentrations of Nano-Metal Oxides
- Dina Ezzat, Mortda Youssif and Mahmoud El-Nahass**
P-22 *Spergularia Marina* Aerial Parts Methanolic Extract: Chemical Characterization, Antioxidant, and Cytotoxic Activities
- Ahmed M. Abd-ElGawad, Yasser A. El-Amier, Shahanda M. El-Afify, and Tushar C. Sarker.**
P-23 Rare Earth Oxide Functionalized the Recycled PET: Preparation, Characterization, Optical, and Dielectric Investigation.
Amr Antar. Mahmoud M. Maghawry, Galal H. Ramzy, Nasser Ayoub and Ahmed I. Ali
- P-24 A Novel Green Biosynthesis Approach and Structural Characterization of Ag-Fe Bimetallic Nanoparticles using the Red Alga *Galaxaura Rugosa*
Elham M. Ali, Ashraf Elsayed and Ahlam S. El Shehawy
- P-25 Algae-Mediated Synthesis and Structural Characterization of Iron Nanoparticles using *Galaxaura rugosa* Seaweed
Ahlam S. El Shehawy, Elham M. Ali and Ashraf Elsayed
- P-26 Chemical Composition, Antioxidant and Antimicrobial Activities of *Anabasis Articulata* Methanolic Extract
Mohamed F. Hafaz, Hoda M. Soliman, Muhammad A. Abbas and Yasser A. El-Amier
- P-27 Chemical Composition, in Vitro Assessment of Antioxidant and Cytotoxic Activities of Methanolic Extract of *Avicennia Marina*
Hoda A. Osman, Ashraf A. El-Sayed and Yasser A. El-Amier
- P-28 Chemical Composition, and Antioxidant and Antimicrobial Activities of *Moringa oleifera* Methanolic Extract
Feryaal G. Abd Elhakeem, Ashraf A. El-Sayed and Yasser A. El-Amier
- P-29 Structural, Fluorescence and Magnetic Properties of Cr^{3+} Cation Substituted of $\text{Co}_{0.7}\text{Mn}_{0.3}\text{Cr}_x\text{Fe}_{2-x}\text{O}_4$ ($0 \leq x \leq 1$) Nanoparticles
Reham K. Abd El.Hamid, Olfat El-Sayed and Mohamed H. Ghozza
- P-30 GC-MS Analysis of Phytochemicals in the Methanol Extract of *Launaea mucronate* and Its Potential Antioxidant and Cytotoxic
Yasser A. El-Amier, Elzahraa M. Elazab, Tushar C. Sarker and Ahmed M. Abd-ElGawad
- P-31 Investigation of Antibacterial, Anticancer, Antioxidant, and Methyl Blue (MB) Catalytic Degradation of Biosynthesis Zinc Sulfide /Zinc Oxide Nanoparticles using *Fusarium oxysporum*
Hosam Salaheldin, Aya Aboelnga and Ashraf Elsayed
- P-32 Chemical Composition of *Launaea spinosa* Methanolic Extract and Its Potential Antioxidant and Cytotoxic
Basma S. El-Nabawy, Hoda M. Soliman and Yasser A. El-Amier
- P-33 Optical, physical, and gamma-ray Shielding Properties of MnO-Modified Borate Bioglass
Omnia E. Ziada, Mahrous S. Meikhail, Walaa M. Awad and Amr M. Abdelghany

- P-34 Synthesis, Computational Evaluation and Molecular Docking of Ninhydrin-Quinoxaline Schiff Base Derivatives
Ashraf Elsayed, Mohamed Abdelmoteleb, Heba M. Metwally and Dalia S. Onsy
- P-35 Modeling Optimization Synthesis of Cu/Zn Bimetallic Nano-Oxides for Using in Congo Red Removal and Control of Pathogenic Microorganisms
Mai M. Taha, Ashraf El-Sayed and Elham M. Ali
- P-36 DFT Study of DGEBA Epoxy Resin Nanocomposite with Functionalized G, CNT, and C₆₀ with TiO₂ as Corrosion Inhibition
Hend A. Ezzat, Shimaa G. Abdoand and Fatma A. Saaid
- P-37 Hydrogen Storage in Carbon-Based Materials: Review
Esraa Soliman and Hend A. Ezzat
- P-38 Biotechnological Studies on Some Bacteria from Avocado Fruits
Nada Mansour, Amany Kzamel and Ashraf Elsayed
- P-39 Effect of ZnO co-doped with Fe and Co on the Structure and High Frequency Dielectric at Different Temperature for Spintronic Application
Nora Y. Elsheikh, Inas K. Battisha, Ahmed. Abo Arais and Mohamed S. Shams
- P-40 Chemical Composition of *Phlomis floccosa* Essential Oil and Its Potential Antioxidant, Antimicrobial and Cytotoxic Activities
Yasser A. El-Amier, Mohammed S. Sultan, Tushar C. Sarker and Ahmed M. Abd-ElGawad
- P-41 Optical and Physical Characteristics of Chitosan/Silver Vanadate Nanocomposites
Hagar H. Ibrahim, Amr M. Abdelghany, Mohamed H. Gaber and Said A. Ali
- P-42 DFT Calculation for GQDs Substituted with Different Transition Metals
Medhat A. Ibrahim
- P-43 Synthesis, antimicrobial, antitumor activity, docking simulation, theoretical studies, and electrochemical analysis of novel Cd(II), Co(II), Cu(II), and Fe(III) complexes containing barbituric moiety
Asmaa M. Fahim, Hend S. Magar and Nelly H. Mahmoud
- P-44 Theoretical Study of Substitution of GQDs with Monovalent Alkali Metals
Hend A. Ezzat, Hanan Elhaes and Medhat A. Ibrahim
- P-45 Carboxymethyl Cellulose Sodium/CuO@ZnO Core/Shell Nanocomposite for Skincare Products: A Route Towards Broadband UV Filters and High Refractive Index Materials
Rania Badry, Mahmoud M. El-Nahass and Nadra Nada
- P-46 Optical, Photo-Physical and Photo-Stability Characterizations of Malachite Green as a Laser Dye, Combined with TD-DFT Simulations
Ahmed R. Ghazy, Diana F. Abotalb, El-Refae Kenawy, Riyadh Ghazy and Sayed A. Abdel Gawad
- P-47 Role of Point Spread Function and Time of Flight Modelling in Improving Breast Cancer PET/CT Images Using Various Reconstruction Algorithms
Eman Elsayed, Ehab M. Attalla and Hosam Salaheldin
- P-48 Distinctive Structural and Biophysical Features of Sol-Gel Synthesized Alumino/Silicate Glass-Ceramic Containing Cerium Oxide
Menna A. Aboelwafa, Amr M. Abdelghany, Ahmed H. Oraby and Mahrous S. Meikhaill
- P-49 Structural, Physical, and Optical Properties of Borosilicate Glasses Doped with Bismuth Oxide

Noha A. Ali, Amr M. Abdelghany, Walaa M. Awad and Mahrous S. Meikhail

P-50 Preparation, Characterization, and Antibacterial Behavior of Low Melting Transition Metal Oxide-doped Borate Glass

Eman N. Othman, Amr M. Abdelghany, Mahrous Meikhail and Walaa M. Awad

P-51 Design and Implementation of Automatic Lighting Control System Based on Optocoupler Under Different Temperature influence

Doaa Hanafy and Amira Alloboudy

P-52 Structural, Optical, and ESR Studies of Samarium Ions-doped Sodium Aluminoborate Glass

Eman Mannaa, Amr M. Abdelghany, Mohamed I. Abdelghany and Goma El-Damrawi

P-53 A Closer Look to the Factors Affecting the Switching Transient Times of Optocouplers
Warda H.A. Hassan, Sanaa A. Kamh, Fouad A.S. Soliman and Wafaa Abd El-Basit

Side Event: Science Café

No	Title
SC-01	Science for the Society: Science Café
SC-02	Molecular Modeling and Molecular Spectroscopy Group at National Research Centre
SC-03	Molecular Modeling Group at Faculty of Women for Arts, Science and Education, Ain Shams University
SC-04	Nano NRIAG Unit at the National Research Institute of Astronomy and Geophysics
SC-05	The Academy of Scientific Research and Technology (ASRT)
SC-06	The Synchrotron-Light Source
SC-07	The Synchrotron-Light for Experimental Science and Applications in the Middle East (SESAME)
SC-08	Beam lines Facilities Available at SESAME
SC-09	How to Participate in SESAME Activities
SC-10	Joint Institute for Nuclear Research (JINR) in the Past
SC-11	Joint Institute for Nuclear Research (JINR) Now
SC-12	ARE-JINR Cooperation
SC-13	Laboratories Available at JINR
SC-14	The European Organization for Nuclear Research: CERN
SC-15	Main Activities of CERN

المؤتمر الدولي الخامس للنمذجة الجزيئية والأطياف
١٧ - ١٩ سبتمبر ٢٠٢٣
القاهرة - مصر



ICMMS-5



تحت رعاية

الأستاذ الدكتور/ حسين درويش
القائم بعمل رئيس المركز القومي للبحوث

رئيس المؤتمر

الأستاذ الدكتور/ حنان الحاييس

نواب رئيس المؤتمر

الأستاذ الدكتور/ عمرو عبد الغني الأستاذ الدكتور/ وليد توفيق

الرئيس الفخري للمؤتمر

الأستاذ الدكتور/ مدحت إبراهيم

سكرتير المؤتمر

الدكتور/ أحمد رفعت

منسق المؤتمر

الدكتور/ هند عزت