

The First International Conference on Molecular Modeling and Spectroscopy

19-22 February 2019

National Research Centre, Cairo, Egypt



ICMMS1

Program of the Conference

Tuesday February 19, 2019

New Hall, National Research Centre

09:00-10:00	Registrations
09:30-10:30	Opening Ceremony
	Prof.Medhat Ibrahim Conference Chairman OL-01: Preface: Welcome Speech
	OL-02: The First International Conference on Molecular Modeling and Spectroscopy Prof. Ahmed Fakhry
	OL-03: Welcome to the National Research Centre Prof.Mohamed Hashem President of the National Research Centre
	OL-04: In the Memory of Prof. Mohamed El-Okr Dr. Mohamed Saleh
10:25-10:30	Photo Session
10:30-11:00	Coffee Break
11:00-13:00	Plenary Session I: PSI
11:00-11:15	OL-05 Molecular Modeling and Molecular Spectroscopy at NRC Medhat Ibrahim
11:15-11:35	OL-06 Fluorescence of Dye Molecules by Laser Multiphoton Excitation to Image Biological Cells Lotfia El Nadi
11:35-12:05	OL-07 Novel Catalysts for Converting CO and CO₂ Polutants to Added Value Hydrocarbon Products Ahmed Abd El-Moneim
12:05-12:20	OL-08 Microfluidics Devices for Biomedical Applications Amina Omar
12:20-12:40	OL-09 Molecular Dynamics: From Simple Liquid to Polymer Nanocomposites Fathia Mohamed
12:40-13:00	OL-10 Strategy of NLEBA for the mass production of nanomaterials for environmental and biomedical applications Ibrahim S. Yahia
13:00-13:15	O-35 Molecular Modeling in Drug Discovery: A shortcut to Identify Molecular Targets and Bioavailability of Biological Lead Compounds Ahmed Atef Ahmed Ali
13:15-13:30	OL-11: Modeling and Spectroscopic Analyses of Coptic Icons Ahmed Refaat
13:30-13:45	O-36 Tuning the Plasmon/Exciton Coupling in Different Regimes for

	Tailoring the Shapes of the Metal and Semiconductor Nanocomposites A. Okasha
13:45-14:00	O-37 Protein Dynamics on Single Molecule Level with Fluorescence Correlation Spectroscopy D. Atta
14:00-14:05	Discussion
14:05-15:00	Lunch
15:00-17:30	Science for the Society: Science Café: SC OSc-20-OSc-34
15:00-17:30	Plenary Session II: PSII (Hall D)
15:00-15:10	O-38: Ultrasonic Assisted Photocatalytic Degradation of Ciprofloxacin using Bimetallic Nanoparticles R. O ZamanBrohi
15:10-15:20	O-39: Modeling the Mechanism of Iron Oxide/TiO₂ /PVA Nanocomposite for Removal of Heavy Metals. Y. Abdulhady
15:20-15:30	O-40: Modeling and Spectroscopic Analyses for Nano Modified Chitosan as Biosensor N. S. Alghunaim
15:30-15:40	O-41: Biosorption of Zinc(II) and Cadmium(II) Using Ziziphus Spina Stones E. A. Assirey
15:40-15:50	O-42: Molecular Modeling Evaluation of Silicon/Polyaniline/ZnO Nanocomposite N. S. Alghunaim
15:50-16:00	O-43: Computational study for the complexation of hydrated lead and 1,3,4-Thiadiazole-2,5-dithiol E. Yalmaz
16:00-16:10	O-44: Effect of Hydration on the Electronic Properties of Si/PANi/3ZnO Nanocomposite N. S. Alghunaim
16:10-16:20	O-45: On the Effect of Pollutants on the Molecular Structure of Fish Z. Al-Fifi
16:20-16:30	O-46: Novel composite for lead ions removal from wastewater E. A. Assirey
16:30-16:45	Discussion
15:00-17:30	Poster Session I: P1-P44 (Hall E)

February 20, 2019

New Hall, National Research Centre.

08:30-09:30	Plenary Session III: PLIII
08:30-08:40	O-47: Molecular Modeling Study for the Chitosan Ibuprofen Interaction A. M. Bayoumy
08:40-08:50	O-48: Removal of Ibuprofen Using Chitosan Biopolymer: Theoretical and Experimental Studies A. M. Bayoumy
08:50-09:00	O-49: Polymer Electrolytes Based on Plasticized Sodium Carboxymethyl Cellulose Doped with Acetic Acid R. Badry
09:00-09:10	O-50: Optimizing the Electrospun Parameters which Affect the Preparation of Nanofibers A. Fahmy
09:10-09:20	O-51: On the Molecular Modeling Analyses of Sodium Carboxymethyl Cellulose Doped with Acetic Acid R. Badry
09:20-09:30	O-52: Effect of Nano Metal Oxides on the Electronic Properties of Cellulose, Chitosan and Sodium Alginate H. A. Ezzat
09:30-10:10	OL-12: Polarization-sensitive CARS Imaging and Surface-Enhanced Micro-CARS of Organic Molecules Grigory Arzumanyan
10:10-10:40	Coffee Break
10:40-13:55	Plenary Session IV: PLIV
10:40-11:20	OL-13: Pre-Colombian Art – Old, New, Fakes: Experimental approaches Wolfram Baumann
11:20-12:00	OL-14: The Experimental and Molecular Dynamics Studies of the DNA Radiation Damage and Conformation Behavior on a Zirconium Dioxide Surface Kholmirzo Kholmurodov
12:00-12:30	OL-15: Model of Collagen Structures Mineralization Sylwia Orzechowska
12:30-13:10	OL-16: Quantum Dots in Molecular Diagnosis Pavel Gladyshev
13:10-13:20	O-53: The DFT Study of the Electronic and Optical Properties of Functional Materials M. Subhoni

13:20-13:35	O-54: Quantum-chemical Calculations of Lead-Free Perovskite Materials on the Basis of the Density Functional Theory K. Rahmonov
13:35-13:45	O-55: Modeling the Effect of Metal Substitution on the Electronic Properties of Fullerene and Fulleropyrrolidine H. Elhaes
13:45-13:55	O-56: Molecular Spectroscopic Study of Dried Water Hyacinth M. Ibrahim
14:00-14:30	Lunch
14:30-18:00	Poster Session II: P44-P88
14:30-17:00	Plenary Session V: PSV
14:30-15:10	OL-17: The New Generation Green Solvents for the Spectroscopic Determinations of Trace Metals Mustafa Soylak
15:10-15:20	O-57: Spectroscopic Study of Heavy Metals Interaction with Organic Acid M. Abd El-Aal
15:20-15:30	O-58: Portable and Battery Operated Highly Sensitive Ammonia Gas Sensor Based on CNTs/rGO/ZnO Nanocomposite M. Morsy
15:30-15:40	O-59: Separation, Preconcentration and Determination of BrilliantBlackBN in food samplesby using microextraction-UV-Vis spectrophotometry M. Soylak
15:40-15:50	O-60: Visible photocatalytic nanomaterials for Wastewater Treatments M. S.A. Hussien
15:50-16:00	O-61: Molecular Modeling Analyses of the Effect of Nano Metal Oxides on Heme Molecule O. Osman
16:00-16:10	O-62: Mesopours CNTs/Co3O4@rGO Nanocomposite as sensor for Volatile Organic Compounds M. Morsy
16:10-16:30	O-63: Removal of Hydrated Heavy Metals by Graphene Quantum Dots H. Abdelsalam
16:30-16:40	O-64: Cost Effective Sensor Based on SnO₂ Modified with CNTs and Graphene M. Morsy
16:40-16:50	O-65: Structural, Optical, Morphological and Thermal Properties of Nanocomposite Based on Poly (ethylene-co-vinyl alcohol) Filled with Graphene Oxide A. Y. Yassin
16:50-17:00	O-66: Enhancement of Spectroscopic, Thermal, Electrical, Dielectric and Morphological Properties of Polyethylene Oxide/Carboxymethyl

	Cellulose Blends: Combined FTIR/DFT M. A. Morsi
17:00-17:10	O-67: Molecular Spectroscopic Analysis of Sodium Phosphate Zinc Copper Doped Magnesium Glass Matrix Y. H. Elbashar
17:10-17:20	O-68: On the Analyses of Cellulose and Chitosan: Spectroscopic and Modeling Approach A-A. Mahmoud
17:20-17:30	O-69: Reactivity of some Functional Groups: Modeling Approach A-A. Mahmoud
17:30-17:40	O-70: Ab initio Molecular Modeling Analysis of Dioxin O. Osman

February 21, 2019

New Hall, National Research Centre.

08:30-09:30	Plenary Session VI: PSVI
08:30-08:40	O-71: Effect of Ultraviolet Radiation on Original Activity Remaining of <i>Spodoptera littoralis</i> Nuclear Polyhedrosis Virus Against <i>Spodoptera littoralis</i> Boisd (Lepidoptera: Noctuidae) S. M. M. Abd EL-Aziz
08:40-08:50	O-72: Green Route for the Removal of Pb from Aquatic Environment A. Refaat
08:50-09:00	O-73: Synergetic Behavior of Gamma-Irradiated Modified Borate Bioglass Analogous to Hench's Bioglass A. Okasha
09:00-09:40	OL-18: Study for a Clue of Extra-Terrestrial Life: Phosphorus Sultana N. Nahar
09:40-09:55	O-74: Molecular Modeling, In Vitro Bioactivity Assessment and Mechanical Properties of some Phosphate Glasses R. A. Youness
09:55-10:10	O-75: Modified Chitosan Blends as Biosensor for Amino Acids A. Refaat
10:10-10:40	Coffee Break
10:40-12:40	Plenary Session VII: PSVII
10:40-11:20	OL-19: Tunable Plasmonics in Graphene for Energy Biotechnology Applications Amal Kasry
11:20-11:35	O-76: Preparation and Characterization of Chitosan/Calcium Phosphate Fiber for Biomedical Application A. Omar

12:35-12:50	O-77: On the Molecular Modelling Structure of the Egyptian Soil/Sediment in River Nile Delta Region H. Elhaes
12:50-13:05	O-78: Biophysical Properties and Molecular Modeling Study of Collagen Blends for Possible Application as Meshes for Hernia Repair A. Refaat
13:05-13:20	O-79: The Influence of Sintering Temperatures on the Molecular Structure, Physical and Mechanical Properties of Zirconia/Hydroxyapatite Nanobiocomposites R. A. Youness
13:15-13:30	O-80: Radiometric and Instrumental Neutron Activation Analysis Investigation of Radioactive ^{137}Cs and ^{210}Pb as well as some Major and Trace Elements in Lacustrine and Euxinic Unconsolidated Sediments of Danube Delta and Western Black Sea Shore O. G. Duluiu
13:30-13:45	O-81: Fullerene and its hydroxylated nanoparticles – human γD-crystallin interaction explained by in silico approach A. A. Gawad
13:45-14:30	Lunch
14:30-16:00	Plenary Session VIII: PSVIII
14:30-14:45	O-82: Constructive Coupling between BiFeO_3 and CoFe_2O_4; Promising Magnetic and Dielectric Properties N. G. Imam
14:45-14:55	O-83: Photoacoustic Study of Optical and Thermal Properties of Cu_2S Quantum Dots Sensitized Solar Cell Photoanode A. Khalid
14:55-15:05	O-84: Improving the Efficiency of QDSSCs Based on $\text{TiO}_2/\text{CdS}(\text{Silar})/\text{TBAI}$ Capped CdSe (Colloid) Photoanodes. M. Nabil
15:05-15:15	O-85: Effect of CdS Quantum Dots Size on Thermal and Photovoltaic Parameters of Quantum Dots Sensitized Solar Cells (QDSSCs) A. Khalid
15:15-15:25	O-86: Size Effect of TBAI Capped CdSe Nanoparticles on the Quantum Dots Sensitized Solar Cells M. Nabil
15:30-16:30	Closing Ceremony Recommendations

OL: Keynote Lecture

O: Oral

P: Poster