



International Conference on Laser Physics, Photonics,
and Applications (LPPA-2023)



9-11 October 2023, Hurghada, Egypt

Program

Day 1: 9 October 2023

Time	
9:30 - 10:00	Registration
Opening session (Auditorium)	
10:00 - 10:5	Prof. Usama Omara, Dean of faculty of computers and AI
10:5 - 10:10	Prof. Riyadh Mirza, co-chair of LPPA-2023
10:15- 10:20	Prof. Mahfouz Abdul-Star, Vice president of South Valley
10:20: 10:30	Prof. Shawqi Al Dallal, Vice president of ArPS
10: 30- 10:40	Prof. Ahmed Akway, President of the University
10:40 - 11:10	Honoring session
11:10- 11:30	Coffee break
Plenary Session 1 (Auditorium)	
11:30 - 12.00	Ray-Kuang Lee Machine-Learning enhanced Quantum State Tomography and Its Applications.
12:00 - 12:30	Shawqi Al Dallal Investigation of the Size Dependence of Nonlinear Absorption and Refractive Index Coefficients of PbS Quantum Dots using Argon and HeNe lasers.
12:30 - 13:00	Daewook Kim Inflatable Extreme Space Telescope.
13:00 - 15:00	Break
Plenary Session 2	
15:00 - 15:30	Riyadh Mirza How to decide, design, manufacture, and market a new Laser product.

15:30 – 16:00	Mostafa Hassan Enhancing Chiral Optical Element Fabrication Through Polarization-Modified Bessel Beams.
16:00-16:20	Safa Barmany (Online) Measurement of Aluminum plasma Parameters by using Laser- induced Breakdown Spectroscopy.

Day 2: 10 October 2023

Time		
Plenary Session 3 (Room1)		
9:30 – 10:00	Hichem Eleuch High fidelity quantum computer with quantum dots: A blueprint concept.	
10:00 –10:20	Mohammed Zidan Quantum computing algorithm for a Boolean function with an unknown qubit.	
10:20-10:50	Gehad Sadiék Manipulating Entanglement Dynamics in Dephased Interacting Qubits Using a Radiation Field.	
10:50 – 11:10	Rahma Abdelmagid (online) Entanglement Dynamics of XX Spin Model Coupled to a Radiation Field in the Presence of Dissipative Environments.	
11:10 – 11:30	Coffee break	
Parallel Session 1		
	Room 1	Room 2
11:30 – 11.50	Mohamed Mahmoud (Online) Synchronization of Coupled singly resonant Optical Parametric Oscillators.	Ihsan Fathallah (Online) Evaluation of the effect of intravascular blood irradiation with the low level laser irradiation.
11:50 – 12:05	Walaa Elhady (online) Simulation of Lennard-Jones Potential on a Quantum	Wedian Abbas (online) The impact of incorporating Bisocetrizole on certain properties of RTV VST-50 maxillofacial

	Computer.	silicone.
12:05 – 12:20	Walaa Elhady (online) Simulation of multipart quantum clock synchronization.	Humam Burrak (online) Clinical applications of a 940 nm diode laser for soft tissue therapy versus conventional method
12:20 -12:40	Montasir Qasymeh (online) TBA	Maha Babiker The Impact of low level Intensity He-Ne Laser in the Inhibiting Growth of pseudomonas Aeruginosa Bacteria.
12:40 – 14:30	Break	
Parallel Session 2		
	Room1	Room2
14:30 – 14:50	Jassim Mohammed Jassim (online) Coherent backscattering technique to determine the transport mean free path in Silver nanoparticles suspension with different shape.	Tahrir Aldelaimi (Online) Using of Diode Laser (940 nm) in Orofacial Region.
Plenary Session 4 (Room1)		
14:50 – 15:20	Mahmoud Abdel-Hafiez (Online) Quantum Materials for Energy Relevant Technology.	
15:20-15:50	Nadia Boutabba (Online) Magneto-shaped strong cycle pulse in a left-handed optically dense medium.	
15:50 – 16:20	Coffee Break/ poster presentation	

Day 3: 11 October 2023

Time		
Parallel Session 3		
	Room 1	Room2
9:30 – 10:00	Mahdi Al-Farawn The development of laser applications researchers in medicine dentistry and biology from 1997 to 2023: A review.	Khalil Jasim (online) Ultrashort Pulse Generation from Passively Modelocked Extended Vertical Cavity Surface Emitting Laser Diode.
10:00-10:20	Asmaa Jawad (Online) Plasma Surface Modification of PMMA Polymer Characterized by Laser Induced Breakdown Spectroscopy.	Narjis Abdulzahra (Online) Nanosecond Nd: Yag laser Effect on Surface, Structure, and Optical Properties of Diamagnetic and Paramagnetic Metals.
10:20-10:50	Mounir Gaidi (online) Silicon nanowires functionalized silver-gold multilayer nanoparticles as highly efficient plasmonic-assisted photocatalytic platforms for organic dye pollutants.	Mohamed Bejaoui (Online) Laser cooling of Alkaline Earth/ Alkaline diatomic molecules.
10:50 –11:10	Mohamed Abbas Using the femtosecond laser to experimentally investigate the nonlinear optical properties of transition metal oxide (TMO).	Suzan Barsoum The recent trends in physics teaching.
11:10 – 11:30	Coffee break	
Parallel Session 4		
	Room1	Room2
11:30 – 11.50	Shaikha Albedwawi Rapid SERS sensing of environmental water pollutants with flexible low-cost plasmonic paper sensor.	Thill Almusawi (online) Effect of several rods on effective frequencies for SRR negative index refractive designs.
11:50 – 12:10	Marwan Basem	Hebatalrahman (Online)

	Artificial opto-mechanical system for controlling mobile robot.	Nano Indentation Effects on Ti6Al4VELI During Excimer Laser Irradiation.
12:10– 12:25	Hichem Eleuch Light squeezing enhancement by coupling nonlinear optical cavities	Hebatalrahman (Online) Materials with non - linear optical characteristics.
12:25 – 14:30	Break	
14:30 – 15:00	Guidelines for marketing your innovation	
15:00 – 15:30	Discussion and Closing Remarks	