

IRAQI JOURNAL OF APPLIED PHYSICS

Volume (19) Issue (4B) November 2023

CONTENTS



About Iraqi Journal of Applied Physics (IJAP)	1
Instructions to Authors	2
Technical and Economic analysis criteria for optimal configurations in PV Battery Systems Meriem Andam, Jamila El Alami, Younes Louartassi, Rabie Zine	83-92
Adsorption, Kinetics, Thermodynamics, and Isothermal Studies of Phenol Red Dye Adsorption Using Activated Charcoal Prepared from Khestawi Dates Luma A. Jassim, Layla A. Jabor	93-102
Effect of Polyimide Layer on Surface Dielectric Barrier Discharge Characteristics Studied for the Air Flow Improvement Fouzi Bouanaka, Amira Boudjadar, Saida Rebiai	103-112
Characterization and Antibacterial Activity of Copper Oxide Nanoparticles Prepared Using Nd:YAG Pulsed-Laser Ablation Mays W. Skakir, Awatif S. Jasim	113-120
Investigation of Sensitivity of Silver-doped Tin Oxide Nanostructures to Nitrogen Dioxide Gas Muhannad Sami Jalil, Ahmed T. Hassan, Yaqoob M. Jawad	121-126
Fine Control of Refractive Index in Large-Size Magnetic Fluids for Photonics Applications Zainab A. Kadem, Ahmed B. Sharba, Jassim M. Jassim	127-132
Thermoelectric Performance of Metallophthalocyanine Molecular Junctions with CIP and CPP Configurations Asala R. Lafta, Mohammed D. Noori	133-138
Nonlinear Control Back Stepping Controllers for Max Power Point Tracking in Photovoltaic Systems under Variable Environmental Situations Raghad H. Ahmed, Seham A. Hashem, Entidhar M. Zghair	139-144
Thickness-Dependent Optical and Topographical Characteristics of Ferric Oxide Thin Films prepared by Spray Pyrolysis Houra'a K. Hussein, Kawkab D. Salim	145-150
Initial Characterization of the Prepared Au-Decorated TiO₂:Fullerene Films Using Electrospray Method Heba H. Ali, Mazin A. Alalousi	151-156
Structural, Morphological and Mechanical Characteristics of Ni55-Cu45 Alloy Prepared by Powder Technology Lisa M. Ghazi Rasha H. Ahmed	157-161
Iraqi Journal of Applied Physics (IJAP): Performance Indicators on Scopus Database	162
Characterization of Nickel-doped PVA Gas Sensors Fabricated by Electrospinning Method Naba H. Al-Ahbab, Nadim K. Hassan	163-166
Preparation and Characterization of Fullerene/AuNPs Composite Films Lara S. Khalil, Mazin A. Alalousi	167-170
Nano Nigella Sativa Used as Free Radicals Scavenger Sara M. Ahmed, Asia H. Al-Mashhadani, Hussain S. Akbar	171-174
Iraqi Journal of Applied Physics (IJAP) Copyright Release Form	175
Contents	176