

# IRAQI JOURNAL OF APPLIED PHYSICS

Volume (10), Issue (3), July-September 2014

## CONTENTS

Instructions to Authors	2
<b>A Novel Secure Digital Watermark Generation from Public Share by Using Visual Cryptography and MAC Techniques</b> Bashar S. Mahdi, Alia K. Abdul Hassan	3-9
<b>Flow Batteries Charge Toward Grid-Scale Energy Storage</b> , Winn Hardin	10
<b>Characterizations of Hydroxyapatite Thin Films Deposited by Spray Pyrolysis on Titanium Substrates for Bone Implant Applications</b> Walid K. Hamoudi, Raid A. Ismail, Hadeel F. Abbas	11-16
<b>Nickel Doping and Annealing Effects on the Structural and Optical Properties of Iron Oxide Thin Films</b> Nidhal N. Jandow	17-22
<b>Structural, Electronic and Gas Sensing Properties of Cu-Doped ZrO<sub>2</sub>-TiO<sub>2</sub></b> Muthafar F. Al-Hilli, Haidar J. Abdul-Ameer, Raad M. S. Al-Haddad	23-28
<b>Influence of Functionalization MWCNTs Using Acid Treatment on Gram Negative and Gram Positive Bacteria</b> Adawiya J. Haider, Mohammed R. Mohammed, Duha S. Ahmed	29-33
<b>World's largest solar farm is up and running in California</b>	34
<b>Correlation Between Kinematics, Optical and Structural Properties of Size Quantized PbS Nano Films Deposited by Spray Pyrolysis</b> Ali M. Mousa	35-39
<b>Fill 'er Up: Building the EV Recharge Infrastructure</b> , Mike Farish	40
<b>Structural Properties of Semiconducting Nanostructures Prepared by DC Plasma Reactive Sputtering Method</b> Noor I. Naji	41-44
IJAP Copyright Release Form	45
Contents	46