## IRAQI JOURNAL OF APPLIED PHYSICS Volume (8), Issue (3), July – September 2012

## **CONTENTS**

Instructions to Authors		2
Influence of Magnetic Saturation on Sensorless Rotor Position Estimation in IPMSM Drives Based on HIL Simulator	E.H. Ibrahem H.M. Dawood	3-9
IOP CONFERENCES		10
CERN experiments observe particle consistent with long-sought Higgs boson		11-16
Application of Hydrotropic Solubilization Phenomenon for Estimating Diacerein in Capsule Dosage Form by Spectrophotometry Methods	U.S. Baghel V. Dhiman	17-23
Shaking metallic grains turns them into tunable laser (essay)	Lisa Grossman	24
Characterization of Commercial Al-Si Casting Alloys Reinforced with Nano SiC Composites	A. Mazahery M.O. Shabani	25-30
Effect of Transverse Magnetic Field on Laser Beam Width Parameter	R.A. Khamis	31-34
Iraqi Journal of Applied Physics (IJAP) Copyright Form		35
Contents		36