CONTENTS

Chemistry

Title : Liquid-Liquid Extraction and Separation of Pr (III), Nd (III), Sm (III) from Nitric Acid Medium by CYANEX 923 in Kerosene.

Title : Extraction of Cobalt (II) from Sulphate Medium and Possible Separation from Nickel (II)

Physics

Title : Theoretical Investigation of Spectral-Interferences of Cadmium Isotopes in ICP-MS
Author : A. M. Rashad

Title : Investigation of Carbon Nanostructures Prepared by Thermolysis of Poly Acrylamide
Author : E. K. Elmaghraby, A. M. Rashad and W. A. Ghaly

Title : Assessment of Aquifer Age and Replenishment Rate by Utilizing 36Cl-Pulse
Author : Mohsen B. Challan and Atteyat.A.Labib

Title : Occupational Dose Inside NCNSRC Laboratories Due to Building Materials
Author : Kh. A. Allam and Amal Moslah
Title : Effect of Gamma Irradiation on the Structural and Color Properties of CR 6-2 Polycarbonate
Author : M.M. Abutalib

Title : Probing B − L Heavy Neutrinos and Neutral Gauge Boson Z′ at the LHC
Author : A.A.Abdelalim,A.Hammad,S.Khalil and R.A.M.Rizk

Title : Electromagnetic Wave Propagation through a High Temperature Superconductor-Dielectric Photonic Crystal
Author : Mohamed Ismail ,Z.M.Badawy and Ehab Abdel-Rahman

Title : Studying The Effect of Various Parameters on The Characteristics of The Dielectric and Metallic Photonic Crystals
Author : Mohamed Ismail ,Z.M.Badawy and Ehab Abdel-Rahman

Title : A Systematic Study of Fast Target Protons Emitted in Relativistic Heavy Ion Collisions with AgBr Target Nuclei
Author : S. Kamel and N. Rashed

---

**Engineering**

Title : Validation of CITVAP Power Distribution via the IAEA 3-D PWR Benchmark Problem
Author : H. M. Omara , E. H. Amin and A.M. Khalaf

Title : Specific Considerations in the Safety Assessment of Predisposal Radioactive Waste Management Facilities in Light of the Lessons Learned from the Accident at the Fukushima-Daiichi Nuclear Power Plant
Author : A. M. Shokr

Title : A Design concept for Interior Architecture of Scientific LaboratoriesMerges "Sustainability" And "Flexibility"
Author : Ahmed Aly-Kamel ElDib
Title : Determination of Television Surveillance Camera’s Parameters For a Research Nuclear Facility
Author : A. A. Wadoud

**Biology**

Title : Effectiveness of Gamma Irradiated Chitosan for Fresh Meat Preservation
Author : Dalia A. Zahran