

# ARAB JOURNAL OF NUCLEAR SCIENCE AND APPLICATIONS

Vol. 51 No.2 April 2018

Web site:esnsa-eg.com

Coden-Ajady-3211350/ISSN 1110-0451

## CONTENTS

**Title** : Characterization of Electrical Breakdown for Low and High Pressure Hydrogen Gas in Coaxial Virtual Cathode Device.

**Authors:** A.M. Shagar, F. A. Ebrahim, M. A. Abd Al-Halim and M. E. Abdel-kader.

**Volume :** *vol. 51, No.2 , (1-9), (2018), Arab J. Nuc. Sci. Appl.*

**Title** : Leaching and Precipitation of Thorium Ions from Cataclastic Rocks, Abu Rusheid Area, South Eastern Desert, Egypt.

**Authors:** S. Y. Afifi, M. Z. Saad, L. A. Yousef and A. H. Ismail.

**Volume :** *vol. 51, No.2 , (10-19), (2018), Arab J. Nuc. Sci. Appl.*

**Title** : The Influence of Fire Retardant (Aluminum Hydroxide) Concentrations on EPDM Rubber Under  $\gamma$  Irradiation.

**Authors:** Samaa. A. Wasfy, Elham M. Hegazi, A.A. Abd El-megeed, T. S. Mahmoud, E.Y.El-Kady

**Volume :** *vol. 51, No.2 , (20-28), (2018), Arab J. Nuc. Sci. Appl.*

**Title** : Recovery of Yttrium and Dysprosium from the Rare Earth Concentrate, Southwestern Sinai, Egypt.

**Authors:** Mohamed M. Fawzy and Saleh M. Elhady.

**Volume :** *vol. 51, No.2 , (29-41), (2018), Arab J. Nuc. Sci. Appl.*

**Title** : Production of Lightest Neutral MSSM Higgs Boson in Association with Neutralinos at Electron Positron Colliders.

**Authors:** Ibrahim S. Mahmoud, T. A. El-Azim.

**Volume :** *vol. 51, No.2 , (42-50), (2018), Arab J. Nuc. Sci. Appl.*

**Title** : A Comparative Study of Volumetric Brain Tumor Measurements Using Different Manual Methods.

**Authors:** Mohammed Elywa.

**Volume :** *vol. 51, No.2 , (51-57), (2018), Arab J. Nuc. Sci. Appl.*

**Title** : Evaluation of Potential Hazards Associated With Qattara Depression as a National Hydropower Project in Egypt.

**Authors:** W.M. Moustafa, R.A. Hussien and N. Nassar.

**Volume :** *vol. 51, No.2 , (58-67), (2018), Arab J. Nuc. Sci. Appl.*

**Title** : Environmental Impact of Conventional Power Plant in Normal and Accidental Conditions.

**Authors:** F.S. Tawfik, N. Nassar and M.A.H. Abdel Aziz.

**Volume** : *vol. 51, No.2 , (68-81), (2018), Arab J. Nuc. Sci. Appl.*

**Title** : Performance of the Secondary Townsend Emission through the Electric Discharge Characteristics in Coaxial Vircator.

**Authors:** A.M. Shagar, S.T. Abd El-Latif and F. A. Ebrahim

**Volume** : *vol. 51, No.2 , (82-88), (2018), Arab J. Nuc. Sci. Appl.*

**Title** : Experimental Work for Minimizing Transmission Power Losses Using Nanotechnology.

**Authors:** Amal F. Abdel Gawad, Mohamed Taalab, A. ElSebaei, and N. S. Ali.

**Volume** : *vol. 51, No.2 , (89-94), (2018), Arab J. Nuc. Sci. Appl.*

**Title** : Improvement of Nitrogen Fertilization Practices for Efficient Use by Wheat Irrigated With Saline Water under Mulching Using 15N Technique.

**Authors:** M.F.Kassab, Y. G. M.Galal, A.M. El-Gindy, K. F. El-Bagoury, Sh. K. El-Tohory.

**Volume** : *vol. 51, No.2 , (95-99), (2018), Arab J. Nuc. Sci. Appl.*

**Title** : Parameters Affecting  $^{137}\text{Cs}$  Migration within Soil Profile.

**Authors:** S.M. SEFIEN, A.S. IBRAHIM, W.E.W. ABDELMALIK.

**Volume** : *vol. 51, No.2 , (100-106), (2018), Arab J. Nuc. Sci. Appl.*

**Title** : Radioiodination and Biological Evaluation of Tizanidine as a Potential Brain Imaging Agent.

**Authors:** M.A. Mourada, H. Abd El-Azizb, A.M. Aminb, G.G. Mohamedc and S.A. Abo El-Eneind.

**Volume** : *vol. 51, No.2 , (107-115), (2018), Arab J. Nuc. Sci. Appl.*

**Title** : Neutronic Analysis of Heavy Water Application in HPLWR Emergency Core Cooling System.

**Authors:** S. Tashakor.

**Volume** : *vol. 51, No.2 , (116-123), (2018), Arab J. Nuc. Sci. Appl.*

**Title** : Creep Behavior of  $\beta$  Cu-Zn Alloys

**Authors:** Mohammed A.Z., Abd El-Aziz El.Z., Attia A.M, and Mahmoud O.F.

**Volume** : *vol. 51, No.2 , (124-136), (2018), Arab J. Nuc. Sci. Appl.*