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Nuclear Physics and Radiation Physics

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Research fields:

Nuclear Physics
Radiation Physics
Semiconductor Radiation Detectors

Qualifications:

2006 Ph.D., Physics Department, College of Science, Mosul University, Iraq
1990 M.Sc., Physics Department, College of Science, Mosul University, Iraq
1987 B.Sc., Physics Department, College of Science, Mosul University, Iraq

Publications (selected)

1. Liath Ahmed Najam, Hazim Louis Mansour, Nada Fadhil Tawfiq, Mahmood Salim Karim, Measurement of Radon Gas Concentrations in Tap Water Samples for Thi-Qar Governorate Using Nuclear Track Detector (CR-39), *Detection*, 2016, 4, 1-8, 10.4236/detection.2016.41001.
2. Abdalsattar Kareem Hashim, Laith Ahmed Najam, Lordford Tettey-Larbi, A Study of Radon Concentration in Different Brands Tobacco Cigarette in Iraqi Market, Influencing Factors and Lung Cancer Risk, *International Journal of Science and Technology*, Vol.5, Issue 10, 2015.
3. Abdalsattar K. Hashim¹, Laith A. Najam², Alpha Radioactivity in Various Brands of Rice in Iraqi Market, *International Journal of Environmental Monitoring and Protection*, 2015; 2(5): 70-75, Published online September 22, 2015 (<http://www.openscienceonline.com/journal/ijemp>)
4. Hussain A. Al-Jobouri, Mustafa Y. Rajab, Laith A. Najam, Analysis of Nuclear Track Parameters of CN-85 Detector Irradiated to Thermal Neutrons by Using MATLAB Program, *Detection*, Vol.3 No.4, October 2015, PP. 29-36, DOI: 10.4236/detection.2015.34005.

5. Abdalsattar Kareem Hashim, Laith Ahmed Najam, Radium and Uranium Concentrations Measurements in Vegetables Samples of Iraq, *Detection*, Vol.3 No.4, October 2015, PP. 21-28, DOI: 10.4236/detection.2015.34004
6. Laith A. Najam, Shaheer A. Younis, Assessment of Natural Radioactivity Level in Soil Samples for Selected Regions in Nineveh Province (IRAQ), *International Journal of Novel Research in Physics Chemistry & Mathematics*, Vol. 2, Issue 2, pp: (1-9), Month: May - August 2015, Available at: www.noveltyjournals.com
7. Saad N. Abood, Mohamed Bechir Ben Hamida, Laith A. Najim, Structure Evolution in Odd-Even Eu- 155 Nucleus within IBFM-2, *American Journal of Modern Energy*, 2015; 1(1): 17-24, Published online June 18, 2015 (<http://www.sciencepublishinggroup.com/j/fhc>) doi: 10.11648/j.ajme.20150101.12.
8. Abdalsattar K Hashim, Laith A. Najam, Measurement of Uranium Concentrations, Radium Content and Radon Exhalation Rate in Iraqi Building Materials Samples, *International Journal of Physics*, 2015, Vol. 3, No. 4, 159-164. Available online at <http://pubs.sciepub.com/ijp/3/4/4>, Science and Education Publishing, DOI:10.12691/ijp-3-4-4.
9. Laith A. Najam, Nada F. Tawfiq, Fouzey H. Kitah, Estimation of Natural Radioactivity of Some Medicinal or Herbal Plants Used in Iraq, *Detection*, Vol.3 No.1, January, 2015, 1-7.
10. Laith A. Najam, Nada F. Tawfiq, Shaheer A. Younis, A Comparative Study of the Results of Natural Radioactivity and the Associated Radiation Hazards of Na(Tl) and HPGe Detectors, *International Journal of Recent Research and Review*, Vol. VIII, Issue2, June 2015.
11. F. A. Majeed and L. A. Najim, Contribution of high energy configurations to longitudinal and transverse form factors in p- and sd-shell nuclei, *Indian J Phys* (June 2015) 89(6):611-618, DOI 10.1007/s12648-014-0622-3.
12. Laith Ahmed Najam, Nada Fathil Tawfiq, Enas Mohamad Younis, Radon emanation from drinking water samples of Nineveh province (IRAQ), *American Journal of Modern Physics* (<http://www.sciencepublishinggroup.com/j/ajmp>), doi: 10.11648/j.ajmp.20140306.20, 2014; 3(6): 257-260.
13. Laith A. Najam, Shaheer A. Younis, Fouzey H. Kitah, Natural Radioactivity in Soil Samples in Nineveh Province and the Associated Radiation Hazards, *International Journal of Physics*, 2015, Vol. 3, No. 3, 126-132. <http://pubs.sciepub.com/ijp/3/3/6>, DOI:10.12691/ijp-3-3-6.
14. Laith A. Najam, Nada F. Tawfiq and Shaheer A. Younis, Measurement of natural radioactivity in brick samples used in the construction in Iraq, *Scholars Research Library, Archives of Physics Research*, 2015, 6 (1):13-19.

15. Laith A. Najam, Nada F. Tawfiq and Fouzey H. Kitha, Measuring radioactivity level in various types of rice using NaI (TI) detector, *American Journal of Engineering Research (AJER)*, 2015, Volume-4, Issue-3, pp-126-132.
16. Ismail K. Abbas, Laith A. Najam, Abd U. A. Sulaiman, The Effect of Gamma Irradiation on the Structural Properties of Porous Silicon, *International Journal of Physics*, 2015, Vol. 3, No. 1, 1-7.
17. Laith A. Najam, Ismail K. Abbas and Abd U. A. Sulaiman, The influence of gamma irradiation on the chemical and transport properties of porous silicon, *Advances in Applied Science Research*, 2014, 5(6):218-223.
18. R. M. Yousuf, M. M. Husain and L. A. Najam, Measurement of Radon -222 Concentration Levels in Spring Water in Iraq. *Jordan Journal of Physics*, Volume 2, Number 2, 2009. pp. 89-93.
19. R. M. Yousuf and L. A. Najam, Preparation of Domestic Nuclear Detector Using Solutions of the Scintillation Materials (Acridine) and (Eosin) *Jordan Journal of Physics*, Volume 2, Number 3, 2009. pp. 181-188.
20. Laith A. Najam, Firas M. AL-Jomaily and Enas M. AL-Farha. Natural radioactivity levels of limestone rocks in northern Iraq using gamma spectroscopy and nuclear track detector *J. Radioanal Nucl. Chem.* (2011) 289:709–715. DOI:10.1007/s10967-011-1144-5.
21. L. A. Najam, N. Y. Jamil and R. M. Yousif, Fabrication of CdMnTe semiconductor as radiation detector, *Indian J Phys* (April 2012) 86(4):267–272. DOI:10.1007/s12648-012-0051-0.
22. Laith A. Najam, Nawfal Y. Jamil and Rasheed M. Yousif, Comparison in Mobility, Transit Time and Quality Factor Between CdMnTe and CdZnTe Detectors, *The African Review of Physics* (2012) 7:0029.
23. Saad N. Abood and Laith A. Najim, Interacting boson model (IBM-2) calculations of selected even-even Te nuclei, *Pelagia Research Library Advances in Applied Science Research*, 2013, 4(1):444-451.
24. Laith A. Najam, Nada F. Tawfiq and Fouzey Hasan Kitah, Measurement of Natural Radioactivity in Building Materials used in Iraq. *Australian Journal of Basic and Applied Sciences*, 7(1): 56-66, 2013 ISSN 1991-8178.
25. Laith A. Najam, Nada F. Tawfiq and Qabas A. Yassen, Determination of uranium concentrations in some building materials in Iraq. *NUKLEONIKA* 2013;58(2):329–331.
26. Abood, S.N., A.K. Saad and L.A. Najim, 2013. Electromagnetic transitions and structures of even-even $^{76-90}\text{Kr}$ isotopes within interacting Boson model. *Elixir Nucl. Radiat. Phys.*, 64: 19268-19281.

27. Abood, S.N., A.K.S.A. Kader and L.A. Najim, 2013. Nuclear structure of the germanium nuclei in the interacting Boson model (IBM). *Adv. Applied Sci. Res.*, 4: 63-73.
28. Abood, S.N., L.A. Najim and E.M. Younis, 2013. Nuclear structure and electromagnetic transitions of ^{152}Gd nucleus within interacting boson model (IBM) and dynamic deformation model (DDM). *J. Nat. Sci.*, 1: 86-93.
29. Najam, L.A., A.K. Mheemeed and I.M. Hassan, 2014. Using gamma-ray to determine the homogeneity of some building materials. *Int. J. Phys.*, 2: 23-29.
30. Saad N. Abood, Laith A. Najim, Jundi Kh. Yousif, 2014. Nuclear structure of the samarium isotopes $^{152-154}\text{Sm}$ using models of IBM-2 and DDM. *International Journal of Recent Research and Review*, Vol. VII, Issue 2, 1-8.
31. S.N. Abood and A.K.S. Abdul Kader, Najam, L.A., 2013. IBM-2 calculations for even-even Xe isotopes. *Concepts Pure Appl. Sci.*, 1: 28-43.