

Curriculum Vitae



Assistant Professor Dr. Ali A. Ridha

Nuclear Physics, Radiation and Environment

Personal Statement:

I have more than 12 years of progressive experience as an academic, consultant and researcher. My most recent position as an Assistant Professor and Rapporteur of post-graduate in the Physics Department at AL-Mustansiriyah University (Iraq) has provided me with considerable experience working with faculty, student, staff, an external business advisory board, and many university officials. I have also conducted research that will lead to understand nuclear physics, and have delivered innovative education that has stimulated students to learn. I have actively participated in developing the teaching and research component for undergraduate and post-graduate programs at the college of Science. My professional history also includes positions as a faculty member at Thi-Qar University (Iraq).

Personal Information:

Full Name: Ali Abdulwahab Ridha

Date of birth: 20-2-1976

Gender: Male

Marital status: Married

Home Address: Iraq, Baghdad, Zaionah, 718, 22, 116/8.

Work Address: Physics Department, College of Science, AL-Mustansiriyah University, Baghdad, Iraq.

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Academic Rank: Assistant Professor in Nuclear Physics, Radiation and Environment

Education level:

- 1- **B.Sc.** in Physics, with an Average 72.82 (Good), College of Science, AL-Mustansiriyah University, Iraq, 1-7-1998.
- 2- **M.Sc.** in Nuclear Physics, with an Average 80.80 (Very Good), College of Science, AL-Mustansiriyah University, Iraq, 6-5-2001.
- 3- **Ph.D.** in Nuclear/Radiation Physics, with an average 89.30 (Very Good), College of Science, AL-Mustansiriyah University, Iraq, 9-7-2013.

Work Experience:

2009- Present	Assistant Professor; Physics Department, College of Science, AL-Mustansiriyah University, Baghdad, Iraq.
2014-2016	Assistant Professor, Rapporteur of Postgraduate Committee; Physics Department, College of Science, AL-Mustansiriyah University, Baghdad, Iraq..
2004-2009	Lecturer; Physics Department, College of Science, Thi-Qar University, Thi-Qar, Iraq.
1998-2002	Computer's Manager and Trainer; Future Office for Computer Training, Palestine St.5, Baghdad, Iraq.

Instructional materials:

2004-2016 Methodology Materials in the Physics Department, College of Science, Iraqi Universities, for (*12 years*), as follows:

1- Undergraduate studies:

1. Nuclear Physics, 2. Medical Physics, 3. Radiation Physics, 4. Quantum Mechanic, 5. Mathematics, 6. Computers, 7. Astronomy.

2- Graduate Studies:

1. X-ray devices/ **MSc.** -Medical College, 2. Advance Nuclear Detectors/ **MSc.** -Science College-Physics dept., 3. Advance Nuclear Physics/ **MSc.** -Science College-Physics dept., 4. Interaction of Heavy Charged Particles with Mater/ **PhD.** -Science College-Physics Dept.

Supervision:

Two MSc. Students.

Languages:

Arabic and English

Training Courses:

- 1- Computer software (Windows, Word, Excel, Access, Power Point & Internet) in AL-Mustansiriyah University, Science College, 2001.
- 2- Computer (Photoshop, Premier, 3D-Max, & Hardware (Computer Maintenance)) in the Future office, Baghdad, Palestine st.5, 2000.
- 3- English Language: Baghdad University, College of Education, in July, 11, 1998.
- 4- Teaching Methods Unit: AL-Mustansiriyah University, College of Education, 3/9/2006.
- 5- Radiation Protection Course, Ministry of Environment/Radiation Protection Center from 29 to 31/3/2009.
- 6- Radiation Protection of Radioactive Sources in the Research Uses, Iraqi Radioactive Sources Regulatory Authority (IRSRA), from 12 to 14 May 2014.

Experience Certifications:

- 1- Certificate of participation in the labor market analysis representative survey in July 2016 as a program developed by IREX with the support of the U.S. embassy in Iraq.
- 2- CBRN certification, in AL-Mustansiriyah University, 9-10/12/2015.
- 3- Iraqi Radioactive Sources Regulatory Authority (IRSRA), Iraq, 12-14/5/2014.
- 4- The first winner research in the Annual Competition of the Science College for the year 2013-2014.
- 5- Global Computer Certification (IC³) Online, 25/7/2011
- 6- Teaching Methods Unit: AL-Mustansiriyah University, College of Education, Baghdad, Iraq, 3/9/2006.
- 7- Ministry of Environment, Radiation Protection Center (RPC), Iraq, 29-31/3/2009.
- 8- Iraqi Society of Physics & Mathematics: AL-Saadon Sector, Q.101, St.17, B.25/1, Baghdad, Iraq, 13/8/2002.

Publications:

1. **Ridha, A.A.** and Ayyed, H.K. (2018). Using Wall Paints as a Barrier to Radon Gas Emission. *Journal of Physical Studies*, 22(1): 1201(5 p.).
2. **Ridha, A.A.** and Ayyed, H.K. (2017). Effect of Paints on Emanation of Alpha Particles from Natural Radionuclide in the Internal Walls. *Journal of Multidisciplinary Engineering Science Studies (JMESS)*, 3(5): 1721-1728.
3. **Ridha, A.A.**, Ayyed, H.K. and Kadhim, N.F. (2017). Study the Paints as a Shield for Walls from Exhalation of Radon Gas Using CR-39 Nuclear Track Detector. *Nuclear Medicine*, 2(2): 8-15.
4. Abid-Al Ammer, H., Kadhim, N.F., Karim, M.S. and **Ridha, A.A.** (2017). Hazard Indices and Age Group Parameters of Powder Milk Consumed in Iraq. *Higher Education Research*, 2(5): 117-122.
5. Kadhim, N.F., Adnan, O.H. and **Ridha, A.A.** (2017). Studying the Radioactivity of Local and Imported Cars Oil in Baghdad Using High Purity Germanium Detector. *Nuclear Science*, 2(2): 37-43.
6. **Ridha, A.A.** and Hasan, A.H. (2017). Cancer Risk Due to the Radon in Cigarette Tobacco. *Radiochemistry, Springer*, 59(2): 208-214.
7. Kadhim, N.F., **Ridha, A.A.** and Hasan, A.H. (2016). Investigation of Radionuclides in Breast and Uterus Female Human Tissues Using Gamma Ray Spectroscopy. *Iraqi Journal of Physics*, Accepted.
8. **Ridha, A.A.** and Hasan, A.H. (2016). Cancer Risk Due to the Natural Radioactivity in Cigarette Tobacco. *Detection*, 4: 54-65.
9. Kadhim, N.F., Jebur, L.A. and **Ridha, A.A.** (2016). Studying Different Etching Methods Using CR-39 Nuclear Track Detector. *Detection*, 4: 45-53.
10. **Ridha, A.A.**, Salim S.R. and Talib, D.F. (2016). Evaluation of Natural Radioactivity of Soil Samples from Different Regions in Baghdad Governorate. *Journal of college of education*, 3: 1-12.
11. Kadhim, N.F., **Ridha, A.A.**, Hassan, A.H. and Abdulaameer, H.E. (2016). Specific Activities and Radiation Hazard Parameters Calculations of Natural Radionuclides in AL-Mustansiriyah University Soils Using NaI(Tl) Detector. *Iraqi Journal of Physics*, 14(30): 172-179.
12. **Ridha, A.A.** and Kadhim, N.F. (2015). Indoor risk assessment of radon gas in the science college buildings-University of Mustansiriyah using RAD-7 detector. *Iraqi Journal of Physics*, 13(27): 97-101.
13. **Ridha, A.A.**, Mutter, M.M. and Salim, M.D. (2015). Natural Radioactivity of U-238, Th-232 and K-40 in surface soil of Baghdad, Nahrain and AL-Mustansiriyah University in Iraq. *Jurnal Sains Nuklear Malaysia*, 27(2): 7-15.
14. Mutter, M.M., **Ridha, A.A.** and Elttayef, A.K. (2014). Uranium estimation in some toothpaste collected from national market in Iraq. *Elixir Nuclear & Radiation Phys.*, 71: 25028-25030.

15. **Ridha, A.A.**, Karim, M.S. and Kadhim, N.F. (2014). Measurement of Radon gas concentration in soil and water samples in Salahaddin governorate-Iraq using nuclear track detector (CR-39). *Journal of Civil and Environment Research*, 6(1): 24-30.
16. AL-Alawy, I.T., Rashid, J.M. and **Ridha, A.A.** (2013). Radioactivity of ^{238}U , ^{232}Th , ^{40}K and ^{137}Cs in Granite Building Materials in Iraq using (HPGe) Detector. *Journal of Thi-Qar Science*, (Accepted).
17. AL-Alawy, I.T. and **Ridha, A.A.** (2013). Natural Radioactivity in some Porcelain Building Materials using (HPGe) Detector. *Scientific Journal of Education College for Pure Sciences*, (Accepted).
18. AL-Alawy, I.T., Mahdi, K.H. and **Ridha, A.A.** (2013). Natural Radioactivity in Ceramics Building Material in Iraq Using High Purity Germanium Detector. *AL-Mustansiriyah J. Sci.*, 24(3): 95-106.
19. **Ridha, A.A.** (2009). Deformation parameters and nuclear radius of Zirconium (Zr) isotopes using the Deformed Shell Model. *Wassit Journal for Science & Medicine*, 2(1): 115-125.
20. **Ridha, A.A.**, Salman, E.A. and Ghazai A.J. (2009). Energy levels and B(E2) values for ^{26}Mg isotope of O(6) dynamical symmetry using IBM-1. *Journal of Thi-Qar University*, 5(2): 2-10.
21. Salman, E.A., **Ridha, A.A.** and Ghazai A.J. (2008). E2 transition in ^{17}O . *Journal of college of education*, 3: 450-457.
22. **Ridha, A.A.** (2008). A Few Unclear Properties for $^{68,70,72}\text{Ge}$ Isotopes- Dynamical Symmetric U(5) by using IBM-1 Model. *Wassit Journal for Science & Medicine*, 1(1): 82-98.
23. Flaeh, A.H., Neemah, M.H.T., **Ridha, A.A.** and Abbas, A.M. (2008). Calculating the percentage decline in population centers, plants and water in southern Iraq for the image in ways classified Category orientated. *AL-Mustansiriyah Journal of Science*, 19(1): 25-31.
24. **Ridha, A.A.** (2007). Nuclear structure of $^{74,76}\text{Ge}$ isotopes which have gamma unstable O(6) dynamical symmetry using interacting boson model. *Basrah Journal of Science*, 25(1): 47-59.
25. **Ridha, A.A.** (2007). Nuclear structure of ^{112}Cd isotope using interacting boson model. *Journal of University of Thi-Qar*, 3(2): 25-32.
26. Ibraheim, K.S., AL-Alawy, I.T. and **Ridha, A.A.** (2001). Deformation Parameters for Vibrational Nuclei (A=20-50) using IBM-1. *Journal of college of education*, 7: 165-193.
27. **Ridha, A.A.**, Ibraheim, K.S. and AL-Alawy, I.T. (2001). Deformation Parameters for Even-Even Nuclei (A=20-50) for the Dynamical Symmetry U(5) using IBM-1. *Mathematics and Physics Journal*, 16(2): 1-19.

Committees:

Member of the following committees:

1. Board of the Physics Department.
2. Scientific Committee,
3. Graduate Studies Committee,
4. Examination committee,
5. Purchases committee,
6. Certification Committee for graduate studies,
7. Maintenance Committee for the nuclear laboratories.

Certifications:

Minister of Higher Education and Scientific Research.

President of Thi-Qar University.

President of AL-Mustansiriyah University.

Dean of Science College/ AL-Mustansiriyah University.

Dean of Science College/ Baghdad.

Dean of Science College/ AL-Nahrain University.

Dean of Science College/ Kufa University.

Dean of Education College/ Baghdad University.

Professional References:

- 1- Dr. Ali A. Al-Zuky, (Professor), Head of Physics Department, Science College, AL-Mustansiriyah University, Baghdad, Iraq, E-mail: dr.alialzuky@yahoo.com, Tel. 964-7702-732705.
- 2- Dr. Khalid H. Mahdi (Professor), Physics Department, Ibn AL-Haitham Education College, Baghdad University, Baghdad, Iraq, E-mail: khalidhm_61@yahoo.com, Tel. 964-7901781471.
- 3- Dr. Nada Farhan Kadhum (Assistant Professor) Physics Department, Science College, AL-Mustansiriyah University, Baghdad, Iraq, E-mail: nadaph2020@yahoo.com, Tel. 964-7704-448993.
- 4- Dr. Laith N. AL-Sabha (Professor) Physics Department, Science College, University of Mosul, Mosul, Iraq, E-mail: prof.lai2014@gmail.com, Tel. 964-7701-649765.
- 5- Dr. Khalid A. Ahmed (Professor), Physics Department, Science College, AL-Mustansiriyah University, Baghdad, Iraq, E-mail: mkawo4@yahoo.com, Tel. 964-7711-371387.