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**Academic Curriculum Vitae**



**Personal Information:**

Full Name: Ali Hassan Ahmed

Academic Title: Professor

Email: ([ali.ahmed@su.edu.krd](mailto:ali.ahmed@su.edu.krd))

Mobile: 0096407504611899

**Education:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Type of Diploma | University | College | Department | Graduation Year | Country |
| B.Sc. | Salahaddin | Science | Physics | 1988 | Iraq |
| M.Sc. | Salahaddin | Science | Physics | 1992 | Iraq |
| Ph.D | Salahaddin | Science | Physics | 2006 | Iraq |

**Employment:**

##### 1. employment starting on 20/5/1993 as assistant lecturer in Sulaimany Univ. /college of medicine.

##### 2. Scientific supervisor of the college of Science library during 1999 – 2000.

##### 3. Dean Assistance of college of Science since Oct. 2006 till March 2008.

##### 4. Head of Examination committee since Dec. 2006 till Oct. 2008

##### 5. Vice Dean of College of Science for Higher Education and Scientific affairs

##### Since Nov. 2011 till 2015.

6. Head of Nuclear and Radiation physics Research group in department of Physics up to now.

**Qualifications**

* **Teaching qualifications**

|  |  |
| --- | --- |
| **Academic title** | **Date of attainment** |
| Assistant Lecturer | 20/5/1993 |
| Lecturer | 2/10/2002 |
| Assistant Professor | 14/4/2009 |
| Professor | 23/9/2018 |

* **IT qualifications**

|  |
| --- |
| **Name of Program** |
| Windows |
| Microsoft Word |
| Microsoft Excel |
| Microsoft Access |
| MATLAB |

* **Language qualifications**

|  |  |  |  |
| --- | --- | --- | --- |
| **Language** | **Reading** | **Writing** | **Speaking** |
| Kurdish  (mother tongue) | Excellent | Excellent | Excellent |
| Arabic | Excellent | Excellent | Very good |
| English  (IELTS) | Excellent | Excellent | Very good |

* **professional qualification**
* **Postgraduate supervision**
* Sardar Qader Othman, Degree: M.Sc., Project title: Effects of Rn-222 and Progenies Exposure on Oxidative Stress and Hemodynamics in Rats: Roles of Melatonin, 2014-2017, Cosupervisor: Prof. Dr. Ismael Mustafa Maulood, Salahaffin University-Erbil.
* Adeeb Omer Jafar, Degree: Ph.D (Split Site program), Project Title:

Investigating the Radioactivity Levels in the Darbandkhan Lake Drinking

Water Resource in Sulaimany Governorate, Nov. 1 2013-May 2017,

Cosupervisor: Prof. Dr. Wan Muhamad Saridan, UTM university, Johor,

Malyzia.

* Hallo Mahmud Kaka Hama, Degree: M.Sc., Project title: Assessment of Radioactivity levels in Soils, Fertilizers, Vegetables and crops of some Farms in Kurdistan Region-Iraq, 2013-2015.
* Ahmed Ismael Samad, Degree: M.Sc., Project title: Measurement of Radioactivity Levels in Daily Intake Foods of Erbil City Inhabitants, 2012-2013.
* Abdulbast Ali Gafur, Degree: M.Sc., Project title: Natural Radioactivity Measurements of Soil samples from Soran District in Kurdistan Region-Iraq, 2011-2012.

Muhammad Isa Hussein, Degree: M.Sc., Project title: Natural Radioactivity Measurements of Basalt Igneous Rocks in Sidakan District in Northeastern of Kurdistan Region-Iraq, 2009-2011.

* You could put any professional courses you have attended

|  |  |  |
| --- | --- | --- |
| **Name of course** | **Duration** | **Place** |
| International Brain Research Organization  IBRO course in Neuroscience | March 11th – 19th, 2014 | Department of Biology, College of Science, Salahaddin Univerity Erbil, Kurdistan, Iraq |
| Bottled Water and health concerns Workshop Salahaddin Univerity Erbil, Kurdistan, Iraq | Oct. 22 2013  Nov. 17 2013  Dec. 7 2013 | Facaulty of Science, Zakho University  College of Science, Salahaddin University  Cultural Center, Salahaddin University |
| Communications, Nuclear, and Material Sciences Workshop | 24th – 25th April 2013 | College of Science / University of Sulaimany |
| Staff Development Training for Medium Level Leaders of Universities in Kurdistan/Iraq | August 11-25, 2012 | University of Kassel – Witzenhausen / Germany |
| Follow-up Meeting of the Training in Witzenhausen, | August 2012  November 21 and 22, 2012 | University of salahaddin-Erbil / Kurdistan |
| Workshop of Education and Scientific Instruments | June 18 2010 to June 19 2010 | College of Science/University of Sulaimany |
| Workshop of Nanotechnology, Material Science and Quantum Mechanics | May 18 2010 to May 19 2010 | College of Science/University of Sulaimany |
| Workshop of physics teaching training package development | March 17 2010 to March 19 2010 | UNESCO / Amman / Jordan |
| Training course of Iraqi Academics | Oct. 5 2007 to Oct. 21 2007 | University College of Dublin / Dublin / Ireland |
| English Language | 10/7/2002 to 19/7/2002 | College of literature / University of Salahaddin |
| Teaching Methods | 20/9/1993 to 23/9/1993 | College of Education / University of Salahaddin |

**Teaching experience:**

* **1. Undergraduate Studies:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Subject | Academic year | Semester | Hours/week | Credit |
| **Biophysics** | 2021-2022 | 2nd | 2 | 2 |
| **Nuclear Physics**  **General Physics**  **Biophysics**  **Nuclear Laboratory** | 2018-2019  2017-2018  2017-2018  2017-2018 | 1st and 2nd  1st  2nd  1st and 2nd | 3  3  2  6 | 6  3  2  2 |
| **Quantum Mechanics**  **General Physics**  **Biophysics**  **Nuclear Laboratory**  General Physics  Biophysics  Quantum Mechanics  Nuclear Laboratory  **Quantum Mechanics** | 2017-2018  2017-2018  2017-2018  2017-2018  2016-2017  2016-2017  2016-2017  2016-2017  2015-2016 | 1st and 2nd  1st  2nd  1st and 2nd  1st  2nd  1st and 2nd  1st and 2nd  1st and 2nd | 3  3  2  9  3  2  3  9  3 | 6  3  2  2  3  2  6  2  6 |
| Nuclear Laboratory | 2015-2016 | 1st and 2nd | 6 | 2 |
| Quantum Mechanics | 2014 -2015 | 1st and 2nd | 3 | 6 |
| Nuclear Laboratory | 2014-2015 | 1st and 2nd | 6 | 2 |
| **Nuclear Physics** | 2013-2014 | 1st and 2nd | 3 | 6 |
| Nuclear Laboratory | 2013-2014 | 1st and 2nd | 9 | 3 |
| Nuclear Physics | 2012-2013 | 1st and 2nd | 3 | 6 |
| Nuclear Laboratory | 2012-2013 | 1st and 2nd | 9 | 3 |
| Nuclear Physics | 2011-2012 | 1st and 2nd | 3 | 6 |
| **Radiation Dosimetry** | 2011-2012 | 1st and 2nd | 3 | 6 |
| Nuclear Laboratory | 2011-2012 | 1st and 2nd | 9 | 3 |
| Nuclear Physics | 2010-2011 | 1st and 2nd | 3 | 6 |
| Nuclear Laboratory | 2010-2011 | 1st and 2nd | 9 | 3 |
| Nuclear Physics | 2009-2010 | 1st and 2nd | 3 | 6 |
| Nuclear Laboratory | 2009-2010 | 1st and 2nd | 9 | 3 |
| **Elementary Particles** | 2008-2009 | 1st | 3 | 3 |
| **Medical Physics** | 2008-2009 | 2nd | 3 | 3 |
| Nuclear Laboratory | 2008-2009 | 1st and 2nd | 9 | 3 |
| Quantum Mechanics | 2007-2008 | 1st | 3 | 3 |
| Elementary Particles | 2007-2007 | 2nd | 3 | 3 |
| Nuclear Laboratory | 2007-2008 | 1st and 2nd | 9 | 3 |
| Quantum Mechanics | 2006-2007 | 1st and 2nd | 3 | 6 |
| Quantum Mechanics | 2005-2006 | 1st and 2nd | 3 | 6 |
| **Atomic Laboratory** | 2004-2005 | 1st and 2nd | 6 | 2 |
| Nuclear Physics | 2003-2004 | 1st and 2nd | 3 | 6 |
| Nuclear Laboratory | 2003-2004 | 1st and 2nd | 9 | 6 |
| Nuclear Physics | 2002-2003 | 1st and 2nd | 3 | 6 |
| **Statistical Mechanics** | 2002-2003 | 1st and 2nd | 3 | 6 |
| Nuclear Laboratory | 2002-2003 | 1st and 2nd | 9 | 3 |
| Atomic Physics | 2001-2002 | 1st and 2nd | 3 | 6 |
| **Statistical Mechanics** | 2001-2002 | 1st and 2nd | 3 | 6 |
| **Atomic Laboratory** | 2001-2002 | 1st and 2nd | 12 | 4 |
| Atomic Physics | 2000-2001 | 1st and 2nd | 3 | 6 |
| Elementary Particles | 2000-2001 | 1st and 2nd | 2 | 4 |
| Atomic Laboratory | 2000-2001 | 1st and 2nd | 12 | 4 |
| Atomic Physics | 1999-2000 | 1st and 2nd | 3 | 6 |
| Elementary Particles | 1999-2000 | 1st and 2nd | 2 | 4 |
| Atomic Laboratory | 1999-2000 | 1st and 2nd | 12 | 4 |
| Atomic Physics | 1998-1999 | 1st and 2nd | 3 | 6 |
| **General Physics** | 1998-1999 | 1st and 2nd | 3 | 6 |
| Atomic Laboratory | 1998-1999 | 1st and 2nd | 12 | 4 |
| **General Physics Lab.** | 1998-1999 | 1st and 2nd | 6 | 2 |
| Atomic Physics | 1997-1998 | 1st and 2nd | 3 | 6 |
| **Mechanics** | 1997-1998 | 1st and 2nd | 3 | 6 |
| **Electricity and Magnetism** | 1997-1998 | 1st and 2nd | 3 | 6 |
| Elementary Particles | 1997-1998 | 1st and 2nd | 2 | 4 |
| Atomic Laboratory | 1997-1998 | 1st and 2nd | 12 | 4 |
| Atomic Physics | 1996-1997 | 1st and 2nd | 3 | 6 |
| Mechanics | 1996-1997 | 1st and 2nd | 3 | 6 |
| Elementary Particles | 1996-1997 | 1st and 2nd | 2 | 4 |
| Medical Physics | 1996-1997 | 1st and 2nd | 3 | 6 |
| Atomic Laboratory | 1996-1997 | 1st and 2nd | 12 | 4 |
| Mechanics | 1995-1996 | 1st and 2nd | 3 | 6 |
| Medical Physics | 1995-1996 | 1st and 2nd | 3 | 6 |
| General Physics Lab. | 1995-1996 | 1st and 2nd | 12 | 4 |
| Medical Physics | 1994-1995 | 1st and 2nd | 3 | 6 |
| General Physics | 1994-1995 | 1st and 2nd | 3 | 6 |
| General Physics Lab. | 1994-1995 | 1st and 2nd | 12 | 4 |
| Medical Physics | 1993-1994 | 1st and 2nd | 3 | 6 |
| General Physics | 1993-1994 | 1st and 2nd | 3 | 6 |
| General Physics Lab. | 1993-1994 | 1st and 2nd | 12 | 4 |

* **2. Post-graduate Studies (M.Sc. Program):**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Subject | Academic year | Semester | Hours/week | Credit |
| **Adv. Quantum Mech.** | 2021-2022 | 1st | 3 | 3 |
| **Adv. Quantum Mech.**  **Adv. Quantum Mech.** | 2017-2018  2014-2015 | 1st  1st | 3  3 | 3  3 |
| **Gamma-Ray Spectroscopy** | 2013-2014 | 2nd | 3 | 3 |
| Adv. Quantum Mech. | 2012-2013 | 1st | 3 | 3 |
| Gamma-Ray Spectroscopy | 2012-2013 | 2nd | 3 | 3 |
| Adv. Quantum Mechanics | 2011-2012 | 1st | 3 | 3 |
| **Adv. Nuclear Physics** | 2010-2011 | 1st | 3 | 3 |
| **Neutron Physics** | 2010-2011 | 2nd | 3 | 3 |

* **3. Post-graduate Studies (Ph.D. Program):**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Subject | Academic year | Semester | Hours/week | Credit |
| **Nuclear Medicine** | 2018-2019 | 2nd | 3 | 3 |
| **Adv. Quantum Mech.** | 2015-2016 | 1st | 3 | 3 |
| **Gamma-Ray Spectroscopy** | 2013-2014 | 1st | 3 | 3 |
| Adv. Quantum Mech. | 2010-2011 | 1st | 3 | 3 |
| **Adv. Nuclear Physics** | 2010-2011 | 1st | 3 | 3 |
| Gamma-Ray Spectroscopy | 2010-2011 | 2nd | 3 | 3 |
| **Radiation Dosimetry** | 2010-2011 | 2nd | 3 | 3 |

**Research and publications**

* State all researches, publication you made.

**a. Boooks**

1. A.Ahmed, Empirical Formulae for Calculating Neutron Yields, Lambert

Academic Publishing LAP, USA, 2012.

**b. Research Papers**

1. **Hallo M. Abdullah and Ali H. Ahmed Study on (n,p) reactions of 58Ni, 99Tc, 99Ru, 131Xe, 133Cs and 186Os radioisotopes used in medicine,**

**Nuclear Engineering and Technology,** [**Volume 55, Issue 1**](https://www.sciencedirect.com/journal/nuclear-engineering-and-technology/vol/55/issue/1)**, January 2023, Pages 304-309**

<https://doi.org/10.1016/j.net.2022.09.014>

1. **Sardar Q. Othman, Ali H. Ahmed, and Sarbaz I. Mohammed, Natural radioactivity and radiological risk assessment due to building materials commonly used in Erbil city, Kurdistan region, Iraq, Environmental Monitoring and Assessment (2023) 195:140**

<https://doi.org/10.1007/s10661-022-10745-x>

1. **R. Gharaei, S. Mohammadi , Dashty T. Akrawy, Ali H. Ahmed, Calculation of α-decay half-lives for isotopes around N = Z using different proximity-type potentials, Eur. Phys. J. A (2022) 58:179**

<https://doi.org/10.1140/epja/s10050-022-00820-9>

1. **Hallo M. Abdullah and Ali H. Ahmed, Semi-empirical formula for (n, α) reaction cross sections at 14–15 MeV neutrons, Applied Radiation and Isotopes, Volume 189, November 2022, 110396.** <https://doi.org/10.1016/j.apradiso.2022.110396>
2. **Sardar Q. Othman, Ali H. Ahmed, and Sarbaz I. Mohammed, Radiological assessment of radon concentration, radon exhalation rate, and annual effective dose of building materials used in Erbil city Kurdistan region, Iraq, International Journal of Environmental Analytical Chemistry, Published online: 03 Nov 2022,**

[**https://doi.org/10.1080/03067319.2022.2140412**](https://doi.org/10.1080/03067319.2022.2140412)

1. **Sardar Q. Othman, Ali H. Ahmed, and Sarbaz I. Mohammed, Environmental health risks of radon exposure inside selected building factories in Erbil city, Iraq, International Journal of Environmental Analytical Chemistry, Published online: 14 Aug 2022,** [**https://doi.org/10.1080/03067319.2022.2107923**](https://doi.org/10.1080/03067319.2022.2107923)
2. **Hallo M. Abdullah and Ali H. Ahmed, Empirical formulae for (n, p) reaction cross-sections at 14–15 MeV neutrons, International Journal of Modern Physics E Vol. 31, No. 5 (2022) 2250049 (19 pages)**

[**https://doi.org/10.1142/S0218301322500495**](https://doi.org/10.1142/S0218301322500495)

1. **Hallo M. Abdullah and Ali H. Ahmed, Empirical systematics for (n, p) reaction cross sections at 14–15 MeV neutrons, Indian J Phys, July 2022** [**https://doi.org/10.1007/s12648-022-02405-0**](https://doi.org/10.1007/s12648-022-02405-0)
2. **Dashty T. Akrawy, A. I. Budaca, G. Saxena, Ali H. Ahmed, Generalization of the screened universal α-decay law by asymmetry and angular momentum, Eur. Phys. J. A (2022) 58:145,** [**https://doi.org/10.1140/epja/s10050-022-00789-5**](https://doi.org/10.1140/epja/s10050-022-00789-5)
3. **Dashty T. Akrawy , Dorin N. Poenaru , Ali H. Ahmed , L. Sihver, α-decay half-lives new semi-empirical relationship including asymmetry, angular momentum and shell effects, Nuclear Physics A 1021 (2022) 122419,**

<https://doi.org/10.1016/j.nuclphysa.2022.122419>.

1. Adeeb O. Jafir, Hallo M. Abdullah, Ali H. Ahmed, Assessment of radiological hazards in cooking liquid oil, used in Kurdistan region-Iraq, ZANCO Journal of Pure and Applied Sciences ZJPAS (2022) , 34(1);1-7

<http://dx.doi.org/10.21271/ZJPAS.34.1.1>

1. **K. P. Santhosh, Dashty T.Akrawy, H.Hassanabadi, Ali H. Ahmed, and Tinu Ann**

**Jose, α-decay half-lives of lead isotopes within a modified generalized**

**liquid drop model, PHYSICAL REVIEW C 101, 064610 (2020),**

<https://journals.aps.org/prc/abstract/10.1103/PhysRevC.101.064610>

1. **Dashty T. Akrawy, and Ali H. Ahmed, *α*-Decay Systematics for Superheavy**

**Nuclei, PHYSICAL REVIEW C, 100, 044618 (2019).**

<https://journals.aps.org/prc/abstract/10.1103/PhysRevC.100.044618>

1. **Ali H. Ahmed, Adeeb O. Jafir and Hallo M. Abdullah, Assessment of Natural**

**Radionuclides in Local and Imported Cements in Erbil Governorate, Kurdistan**

**Region- Iraq, Jordan Journal of Physics, Volume 13, Number 1, 2020. pp. 73-77**

<http://journals.yu.edu.jo/jjp/JJPIssues/Vol13No1pdf2020/7.pdf>

1. **Ali Hassan Ahmed,** **Systematics of (n, p) reaction cross-sections for light element**

**target nuclei at 14.5 MeV neutrons, International Journal of Modern Physics E**

**Vol. 27, No. 10 (2018) 1850079,**

<https://www.worldscientific.com/doi/abs/10.1142/S0218301318500799>

1. **Dashty T. Akrawy and Ali H.Ahmed, New empirical formula for a-decay calculations,** **International Journal of Modern Physics Vol. 27, No. 8 (2018) 1850068 World Scientiﬁc Publishing Company,**

<https://www.worldscientific.com/doi/abs/10.1142/S0218301318500684>

1. **Adeeb Omer Jafir, Ali Hassan Ahmed, and Wan Muhammad Saridan, Estimation of radiological parameters from seasonal observations of primordial natural radionuclides in sediments of Darbandikhan Lake water resources at Kurdistan region, Northeastern Iraq, Journal of Environmental Earth Sciences (2018) 77:334, Springer-Verlag GmbH Germany, part of Springer Nature 2018,**

<https://doi.org/10.1007/s12665-018-7511-6>.

1. **Adeeb Omer Jafir, Ali Hassan Ahmed, and Wan Muhammad Saridan, Seasonal**

**measurement and dose assessment of natural radionuclides in sediments of**

**Darbandikhan Lake in Kurdistan-Iraq, Journal of Radiation Physics and**

**Chemistry, 140 (2017) 150–160,**

<https://doi.org/10.1016/j.radphyschem.2017.02.010> **.**

1. Adeeb Omer Jafir, Ali Hassan Ahmed, and Wan Muhammad Saridan, Seasonal

measurements of natural radionuclides in drinking waters of Darbandikhan Lake

water resources at Kurdistan Region-Northeastern of Iraq, Zanco Journal of Pure

and Applied Sciences, Salahaddin University-Erbil, Jan. 19 2017.

<https://ui.adsabs.harvard.edu/abs/2017RaPC..140..150O/abstract>

1. Ali H. Ahmed, Habbib H. Mansour, Saman K. Ezzulddin and Ahmed I. Samad

Radon (222) Content in Bottled Water of Kurdistan Region using Active and

Passive Methods, ZANCO Journal of Pure and Applied Sciences, Salahaddin

University-Erbil, ZJPAS (2017), 29 (3); 152-158,

<http://dx.doi.org/10.21271/ZJPAS.29.3.17>.

1. **Saman Khabbat Ezzulddin, Ali Hassan Ahmed, Ahmed Ismael Samad, Sardar**

**Qader Othman, Radioactivity Measurement of Nuts and Seeds Available in Erbil**

**City Markets, Journal of American Institute of Physics, AIP Conference**

**Proceedings 1888, 020022 (2017).** [**http://dx.doi.org/10.1063/1.5004299**](http://dx.doi.org/10.1063/1.5004299)**.**

1. **Ahmed I. Samad, Ali H. Ahmedand Saman K. Ezzulddin, Assessment of Natural Radioactive Concentration Levels in the Oil Drilling Wells in Erbil Governorate Blocks, Jordan Journal of Physics, Volume 10, Number 1, 2017. pp. 25-34,**

[**http://journals.yu.edu.jo/jjp/JJPIssues/Vol10No1pdf2017/4.pdf**](http://journals.yu.edu.jo/jjp/JJPIssues/Vol10No1pdf2017/4.pdf)**.**

1. **Adeeb Omer Jafir, Ali Hassan Ahmed, and Wan Muhammad Saridan, Seasonal**

**radon measurements in Darbandikhan Lake water resources at Kurdistan**

**region-northeastern of Iraq, AIP Conference Proceedings 1718, 050001 (2016).**

<http://repository.unair.ac.id/90972/9/C.20.%20Fulltext%20%28Karya%20Ilmiah%29.pdf>

1. Ismail Mustafa. Maulood, Ali H. Ahmed and Hawzeen K. Othman, Hemodynamic and oxidative stress effects of gamma-radiation both male and female rats, Journal of Zankoy Sulaimani – Part A, vol. 18, No. 3, (2016). Kamal O. Abdullah, Ali H.

25.  **رشيد محمود يوسف, علي حسن احمد،, صفوه وليد احمد**

**خريطة مبسطة للنشاط الاشعاعي الطبيعي لمدينة الموصل** A simplified map of natural

radioactivity for Mosul city, Journal of Kirkuk University, Feb. 2016.

26. Ahmed, Salahaddin A. Ahmed, Measurement of Rn-222 Concentrations in the

Air of Qaysery Naqeeb Bazaar Located in Sulaimani Governorate of Kurdistan

Region- Iraq, Journal of Zankoy Sulaimani – Part A, vol. 17, No. 2, (2015).

27. A.H. Ahmed and A.I. Samad, Measurement of Radioactivity Levels in Daily

Intake Foods of Erbil City Inhabitants, Journal of Zankoy Sulaimani – Part A,

vol. 16, No. 4, (2014).

28. A.H. Ahmed, S.O. Haji, H.H. Azeez, Radon Dosimetry in Erbil City Hospitals,

International Journal of Physical Science and Application, 2 (7) (2012) 240-244.

29. A.H. Ahmed, S.O. Haji, Measurement of Radon Exhalation rate from Pottery

Meal Dishes in Erbil City by Using Passive and Active Techniques, Journal of

Kirkuk University, (2011).

**30. A. A. Ahmed, M. I. Hussein, Natural Radioactivity Measurements of Basalt**

**Rocks in Sidakan District Northeastern of Kurdistan Region-Iraq, World**

**Academy of Science, Engineering and Technology WASET, 50 (2011) 129-136.**

31. A.H. Ahmed, A.H. Rahem, Analysis of Gamma-Ray Spectra Using

Levenberg-Marquardt Method, World Academy of Science, Engineering and

Technology, vol. 73, (2011).

**32. A.H. Ahmed, D.S. Ali, Investigation of Chemical and Radioactive Contamination**

**Level of the Drinking Water Resources in Erbil City, Journal of Environmental**

**Studies (JES) SohaJ University / Egypt, Vol.1 (2009) p. 8-18**

33. A.H. Ahmed, Calculation of 22Na(n,α)19F Cross Sections from the

19F(α,n)22Na Cross Sections Using the Principle of Detailed Balance, Journal

of Tikret University, (2009).

34. A.H. Ahmed, Empirical Formula for calculating Stopping Power of Light

Elements for Protons in the Energy Range up to 10 MeV, Journal of Kirkuk

University, 4 No.3, (2008) p.p. 153-157.

**35. A.H. Ahmed and H.M. Yohanna, Empirical Formulae to Calculate n-Yields**

**from (α,n) Reactions for 9Be, 19F, 23Na, and 27Al Light Element Thick Targets,**

**Nuclear Instruments and Methods in Physics Research A, 582 Issue 2 (2007) pp.**

**287-293.**

<https://www.sciencedirect.com/science/article/pii/S0168900207018220>

36. A.H. Ahmed and H.M. Yohanna, Evaluation of the Total Neutron Yields for

3H(p,n)3He and 7Li(p,n)7Be Reactions from Threshold to 10 MeV Using

Empirical Formulae, Journal of Zanko, Univ. of Salahaddin, 18 No.3 (2006)

p.74.

37. A.H. Ahmed and H.M. Yohanna, Empirical Formulae of Neutron Yields for

9Be(α,n)12C and 19F(α,n)22Na Reactions from Threshold to 10 MeV, Journal

of Zanko, Univ. of Salahaddin, 18 No.2 (2006) p.122.

38. A.H. Ahmed, K.A. Abdullah, and R.H. Abdullah, Radioactivity

Measurement of Different Drinking Water Resources in a number of

Governorates in Kurdistan Region, Journal of Zanko, Univ. of Salahaddin,

18 No.1, (2006) p.69.

39. A.H. Ahmed, A.H. Rahem, Automatic Singlet Peak Analysis of HP(Ge)

Gamma-Ray Spectrum, Journal of Zankoy Sulaimany, vol. 6, April 2003.

40. A.H. Ahmed, The Radioactivity of Shielding Design of a Gamma-Ray

Spectroscopy, Journal of Zankoy Sulaimany, vol. 4, Dec. 2001.

41. O.M. Mustafa and A. H. Ahmed, The Radioactivity of Uranium series

radionuclide in Barsarin Formation, Journal of Zanko, Univ. of Salahaddin,

Special volume of the third scientific conference, 1997.

42. O.M. Mustafa and A. H. Ahmed, The Radioactivity of Thorium series

radionuclide in Barsarin Formation, Journal of Zanko, Univ. of Salahaddin,

Special volume of the third scientific conference, 1997.

**Conferences and courses attended**

1. Adeeb O. jafir, Ali Hassan Ahmad, Wan Muhammad Saridan,Seasonal measurements of natural radionuclides in drinking waters of Darbandikhan Lake water resources at Kurdistan Region-Northeastern of Iraq, 3rd International Conference on Energy, Environment and Applied Science, by Ishik University and Salahaddin University-Erbil 10-11 April, 2016.
2. Adeeb O. jafir, Ali Hassan Ahmad, Wan Muhammad Saridan, Seasonal radon measurements in Darbandikhan Lake water resources at Kurdistan region-northeastern of Iraq, 5th International Conference and Workshop on Basic and Applied Sciences (5th ICOWOBAS), Universitas Airlangga, Surabaya,

Indonesia from 16th to 17th October 2015.

1. A. A. Ahmed, M. I. Hussein, Determination of 40K Concentration in Imported Milk Powders in Erbil City Local Markets, 5th International Conference and Workshop on Basic and Applied Sciences (5th ICOWOBAS), Universitas Airlangga, Surabaya, Indonesia from 16th to 17th October 2015.
2. A.H. Ahmed, Naturally Occurring Radioactive Materials in Oil Drilling Wells

in Kurdistan RegionFirst International Symposium on Urban Development, Koya University-Kurdiatan, Dec. 18-20 2013.

1. A.H. Ahmed and A.A. Gafur, Natural Radioactivity Measurements of Soil samples from Soran District in Kurdist an Region-Iraq 4TH International Conference and Workshops on Basic and Applied Sciences and 11TH Regional Annual Fundamental Science Symposium 2013 (ICOWOBAS-RAFSS 2013), Grandeur Palm Resort, Senai, Johor, Malaysia from 3rd to 5th September 2013.
2. A. A. Ahmed, M. I. Hussein, Natural Radioactivity Measurements of Basalt Rocks in Sidakan District Northeastern of Kurdistan Region-Iraq, International Conference on Nuclear Physics and Astrophysics Peneng/Malyzia Feb. 22-24 201.
3. 1A.H. Ahmed, M.I. Hussien, S.H. Mohammad, L.F. Talhat, Activity Concentration of 40K-Radionuclide in the Kurdistan Region Tobacco Products, 4th International Scientific Conference of Salahaddin University-Erbil Kurdistan, Iraq, October 18-20, 2011.
4. A.H. Ahmed, A.H. Rahem, Analysis of Gamma-ray Spectrum using Non-Linear Least-Square Fitting

(Stepest) Method. Tenth Arab Conference on the Peaceful Uses of Atomic Energy, Republic of Iraq**,** Dec. 12-14 2010.

**Funding and academic awards**

Awarding a grant of (4000 USD) from The American Academic Research Institute in Iraq (TAARII) for the research project

**Investigation the Chemical and Physical Contamination Level of Drinking Water Resource in Erbil City**

**Submitted on** 5-1-2008

**Professional memberships**

1. Committee of Physics and Mathematics / Baghdad.

2. Committee of Physics / Kurdistan Region of Iraq-Erbil

3.Member in the consultant council of the ministry of Environment since April

2007 till now.

**Professional Social Network Accounts:**

Research gate: <https://www.researchgate.net/profile/Ali-Ahmed-79>

Google Scholor: <https://scholar.google.com/citations?user=5WGht3cAAAAJ&hl=en>

Facebook: <https://www.facebook.com/profile.php?id=100011786525330>

Linkedin: <https://www.linkedin.com/feed/?trk=>

ORCID : <https://orcid.org/0000-0002-9561-6224>