

Curriculum Vitae

Name: Assoc. Prof. Dr. Basim Abd Alhassen Abd Alhussein Abdali Almayahi
(B.A. Almayahi)



Fields of Interest:

- 1- Radiation Biophysics, Radiation Medical physics, Natural Radioactivity of Environmental, and Medical Biophysics
- 2- Prostate cancer treatment using gold nanoparticles.
- 3- Natural Radioactivity of Gamma Ray, Radon, and Alpha Particles in (Tissue, blood, teeth, bones, soil, water, air, food, fertilizer, building materials).
- 4- Radiation Detection and Measurements (Scintillation Detector (Na I (TI))- High Purity Germanium (HPGe) Detector- Exploranium GR-135- Radon Monitor Continues 1029- RAD 7 System-SSNTDs Cr-39.
- 5- Radiation Protection.
- 6- Statistical Physics and Environmental Statistics (GenStat, SPSS, OrginLab, Sigma plot).

Educational Qualification

No	Certificates	University or Institute	College	Department	Field of Specialization	Study of Country	Date of Graduate
1	Secondary	Alkhornak School				Iraq	1993
3	B.Sc.	Babylon University	Science	Physics		Iraq	2000
4	M.Sc.	Babylon University	Science	Physics	Nuclear Physics	Iraq	2004
5	Ph.D.	Universiti Sains Malaysia		School of Physics	Radiation Protection and Environmental Radioactivity - Radiation Bio and Medical Physics- Biomarkers of Radionuclides	Malaysia	2013

LANGUAGES

LANGUAGES	
ARABIC	Mother Tongue
ENGLISH	1. Passing the Proficiency Examination Required for Higher Studies in Iraq (GOOD)-1998 2. Completed Spoken English (LHP 456) In Semester II (2010/2011)- School of Languages, Universiti Sains Malaysia. 2011
MALAY (MALAYSIA)	Passing the Proficiency Examination Required for Higher Studies in Malaysia (Excellent)- School of Languages, Universiti Sains Malaysia, 2013

Training and Courses:

- 1- English Language qualification Training No. 6 in Babylon University 11-7-1998.
- 2- Arabic Font (Quran) Training in Kufa University 7-18/9/1996.
- 3- Qualification Training of Computer Learning in International Computer Central 24-7-1999 to 20-9-1999.
- 4- Qualification Training of Education and Teaching Methods No. 5 in Kufa University 9-23/7/2006.
- 5- Electronic Computers Training in Electronic Computer Central in Kufa University 2-23/9/2007.
- 6- Toefl Training in Toefl Central in Kufa University 25-8-2008.
- 7- English Spoken Training in Languages School Universiti Sains Malaysia 21-12-2010.
- 8- Occupational Safety and Health Committee of Universiti Sains Malaysia (2 July 2011)
- 9- National Graduate Symposium in Universiti Teknologi Petronas in Malaysia 2011.

Working Experience

- Lecturer at Babylon University, College of Science, Department of Physics in Nuclear Lab. and Courses: Health Physics, 2001-2004.
- Lecturer at Qadesiyh University, College of Education in Computer Lab., 2004-2005.
- Teacher at Kufa University, College of Science, Department of Physics, Atomic and Nuclear Lab., 2005-2008.
- Teacher at Kufa University, College of Science, and Department of Environment (Lecturers: Biophysics, General Physics, and Computer 2008-2013.
- Head of Environment Department at Kufa University, College of Science, Department of Environment, 2009-2010.
- Researcher at Nanotechnology and Advanced Materials Research Unit 2013- up to date.
- Lecturer at Kufa University, College of Science, Department of Environment (Radiation protection, Radiotherapy, Biophysics, General Physics, and Computer science, 2013 up to date)

Topics of M.Sc. and Ph.D Thesis

Title of M.Sc. Thesis: A STUDY OF MATERIALS BY BACKSCATTER PEAK FOR GAMMA RAY USING THE SCINTILLATION DETECTOR NAI (TL).

Title of Ph.D. Thesis: STUDY ON RADIOACTIVITY IN HUMAN TEETH, ANIMAL BONES AND SOIL IN SELECTED AREAS IN NORTHERN REGION OF MALAYSIAN PENINSULAR.

No.	Conference and Presentations	Date	Country
1	2 nd National Conference of Chemical in College of Science In	2002	Iraq

	Babylon University		
2	Conference of College of Science in Babylon University	2003	Iraq
3	2 nd Annual Environmental Conference in College of Science in Babylon University	2007	Iraq
4	Conference of Pure and Applied Sciences	2009	Iraq
5	5 th Science Symposium in College of Science in Qadisiya University	2009	Iraq
6	National Graduate Symposium- The Graduate Journey: Mapping a Smart Route to Successful Completion in Universiti Teknologi Petronas, Perak, Malaysia	2011	Malaysia
7	International Conference on Chemical, Biological and Environmental Sciences (ICCEBS 2011), Pattaya, Thailand	2011	Thailand
8	2012 Asia Pacific Conference on Environmental Science and Technology (APEST), Kuala Lumpur, Malaysia	2012	Malaysia
9	International Conference on Environmental Research and Technology (ICERT 2012) in Penang , Malaysia	2012	Malaysia
10	International Environment and Health Conference, Penang, Malaysia	2012	Malaysia
11	2 nd International Public Health Conference and 19 th National Public Health Colloquium, Kuala Lumpur, Malaysia	2012	Malaysia
12	2 nd International Conference on Ecological, Environmental and Biological Sciences (EEBS'2012), Bali, Indonesia	2012	Indonesia
13	International Conference on Agriculture, Chemical and Environmental Sciences (ICACES'2012), Dubai, (UAE)	2012	United Arab Emirates
14	Advanced Materials Conference (AMC), 2012, Langkawi, Malaysia	2012	Malaysia
15	Workshop Biology Diversity and Bio Safety (International Day of Biology Diversity)	2013	Iraq
16	The Scientific Symposium entitled keep on the environment one requirements the quality in veterinary medicine	2013	Iraq
17	Scientific seminar: Modern technologies in the laboratory diagnosis	24/04/2014	Iraq
18	International Conference on Advances in Applied Science and Environmental Engineering	02-03/08/2014	Malaysia
19	21 st International Conference on Environmental Indicators University of Windsor, August 2-5, 2015, Abstract Volume Journal of Environmental Quality: Special Issue 2015	August 2-5, 2015	Canada
20	Joint ICTP-IAEA Workshop on Radioactive Waste Management - Solutions for Countries without Nuclear Power Programme-Cosponsor(s): International Atomic Energy Agency (IAEA)	2-6 Nov. 2015	Italy

Editorial Board Member

- 1- American Journal of Physical Chemistry (AJPC)

- 2- American Journal of Physics and Applications
- 3- Open Science Journal of Clinical Medicine
- 4- The American Association for Science and Technology, USA
- 5- The Science and Information Organization
- 6- Techno publications

Reviewer Committee Member

1. Asian Journal Of Applied Sciences
2. International Conference On Biological And Environmental Science (BIOES)
3. Universal Researchers in Environmental and Biological Engineering (UREBE)
4. Science of the Total Environment - <http://ees.elsevier.com/stoten/>
5. Environmental Monitoring and Assessment
<http://www.springer.com/environment/monitoring+-environmental+analysis/journal/10661>
6. Journal of Radiation Research- jrr.oxfordjournals.org/
7. Herald Journal of Geography and Regional Planning-
<http://www.heraldjournals.org/hjgrp>
8. Indian Journal of Pure and Applied Physics (IJPAP)-
<http://op.niscair.res.in/index.php/IJPAP>
9. Journal of Hazardous Materials- <http://www.journals.elsevier.com/journal-of-hazardous-materials/>
10. Radioanalytical and Nuclear Chemistry-
<https://www.editorialmanager.com/jrnc/default.asp>
11. Quaternary International- www.sciencedirect.com/science/journal/10406182
12. Advancement in Scientific and Engineering Research
13. Agricultural Research
14. American Journal of Physical Chemistry (AJPC)
15. American Journal of Physics and Applications.
16. Journal of Radiation Research and Applied Sciences. <http://ees.elsevier.com/jrras>
17. Journal of Taibah University for Science.
<http://www.sciencedirect.com/science/journal/16583655>

Scientific Program Committee (Technical Committee)

1. International conference on substantial environmental engineering and renewable energy (SEERE).
2. Emirates Association of Chemical, Biological and Environment Engineers (EACBEE).
3. International Conference on Waste Management, Ecology and Biological Sciences (WMEBS-2015), Emirates Research Publishing.
4. 2015 International Conference on Biological and Environmental Science (BIOES-15), Phuket (Thailand).

5. 2015 International Conference on Chemical, Metallurgy and Material Science Engineering (CMMSE-2015) August 10-11, 2015 Pattaya, Thailand

Technical Editor

1. Journal of Environmental Science and Technology, **Science Alert**, 244, 5th Avenue, No. 2218, NY 10001, New York, USA
2. Current Research in Physics, **Science Alert**, 244, 5th Avenue, No. 2218, NY 10001, New York, USA

Membership

1. The Institute of Research Engineers and Doctors- IRED. USA
2. Scientific Board of Chemical, Civil, Agricultural and Environmental Engineers

Publications

1. Almayahi, B. A., Tajuddin, A. A., Jaafar, M. S. Radiation hazard indices of soil and water samples in Northern Malaysian Peninsula. *Applied radiation and isotopes*, 2012, 70 (11), 2652–60.
2. Almayahi, B. A., Tajuddin, A. A., Jaafar, M. S. (2012). Effect of the natural radioactivity concentrations and $^{226}\text{Ra}/^{238}\text{U}$ disequilibrium on cancer diseases in Penang, Malaysia. *Radiation Physics and Chemistry*, 81(10), 1547–1558.
3. Almayahi, B. A., Tajuddin, A. A., Jaafar, M. S. (2011). In-Situ Radon Level Measurement for a Tropical Country. *International Conference on Chemical, Ecology and Environmental Sciences (ICCEES'2011) Pattaya Dec. 2011* (pp. 415–417). Malaysia.
4. Almayahi, B. A., Tajuddin, A. A., Jaafar, M. S. (2012). ^{210}Pb , ^{235}U , ^{137}Cs , ^{40}K and ^{222}Rn Concentrations in Soil Samples After 2010 Thai and Malaysian Floods. *Advances in Biomedical Engineering*, 6, 593–598.
5. Almayahi, B. A., Tajuddin, A. A., Jaafar, M.S., (2012). Measurements of alpha emission rates in bones using CR-39 track detector. Proceedings of 2nd International Conference on Ecological, Environmental and Biological Sciences (EEBS'2012), October 13-14, 2012 at Bali (Indonesia), 18-19.
6. Almayahi, B. A., Tajuddin, A. A., Jaafar, M. S. (2012). ^{238}U , ^{232}Th and ^{40}K Concentrations Evaluation For Soil and Water Samples in Northern Malaysian Peninsular. 3rd International Conference on Environmental Research and Technology (ICERT 2012), 30 May-1 June, 2012, Penang, Malaysia. 1-6
7. Almayahi, B. A., Tajuddin, A. A., Jaafar, M. S. (2012). Measurements of Naturally Occurring ^{210}Pb Concentration in Animals Bones of Northern Malaysian Peninsula. *International Conference on Agriculture, Chemical and Environmental Sciences (ICACES'2012) Oct. 6-7, 2012 Dubai (UAE)* (pp. 189–191). Malaysia.
8. Almayahi, B. A., Tajuddin, A. A., Jaafar, M. S. (2012). Measurements of Natural Radionuclides and Elemental Concentrations in Chicken and Mice Bones in Penang, Malaysia. *Health and the Environment Journal*, 3(3), 17–22.
9. Almayahi, B. A., Tajuddin, A. A., Jaafar, M. S. (2013). In situ soil ^{222}Rn and ^{220}Rn and their relationship with meteorological parameters in tropical Northern Peninsular Malaysia. *Radiation Physics and Chemistry*, 90 (2013)11–20

10. Almayahi, B. A., Tajuddin, A. A., Jaafar, M.S., (2012). Measurements of soil and water radon from Northern region of Malaysian Peninsular. Proceedings of 2nd International Public Health Conference and 19th National Public Health Colloquium which will be held in Kuala Lumpur, Malaysia from 3rd-4th October 2012. (Abstract).
11. Almayahi, B. A., Tajuddin, A. A., Jaafar, M.S., (2012). Measurements of naturally occurring ²¹⁰Pb in human teeth in selected areas in Malaysia using the CR-39 detector. Proceedings of Advanced Materials Conference (AMC), 12–13 December 2012, Langkawi, Malaysia. (Abstract).
12. Hussein, A.K., Alshamarti, H.A., Almayahi, B.A., 2013. Comparison of the Regression Equations in Different Places using Total Station, International Journal of Engineering Trends and Technology (IJETT), 5: 32-35.
13. B.A. Almayahi, A.A. Tajuddin, M.S. Jaafar, 2014. Measurements of natural radionuclides in human teeth and animal bones as markers of radiation exposure from soil in the Northern Malaysian Peninsula. Radiation Physics and Chemistry, 56–67.
14. Talib A. Abdulwahid, Imad K. Alsaabery, Ali A. Abojassim, B.A. Almayahi, 2013. The enhancement of prostate cancer treatment using gold nanoparticles and high energy photons. Advances in Physics Theories and Applications, 25, 76-81.
15. B.A. Almayahi, A.A. Tajuddin, M.S. Jaafar, 2014. Radiobiological long-term accumulation of environmental alpha radioactivity in extracted human teeth and animal bones in Malaysia, Environmental Radioactivity, 129, 140–147, (2014).
16. Arif S. Baron, B.A. Almayahi. Modeling of the Geomagnetic Field at Lake Tharthar and Neighboring Regions. International Journal of Computer Trends and Technology (IJCTT), 1, 5, 2013.
17. M.J. Albermani, Arif S. Baron, H.A. Alshamarti, B.A. Almayahi . Magnetic Anomaly at Selected Region in Kufa City, Iraq. Asian Journal of Applied Sciences. 1, 5, 2013.
18. Ali K. Hussein, H. A. Alshamarti, B.A. Almayahi. Different Places using Comparison of the Regression Equations in Total Station. International J. of Engineering Trends and Technology (IJETT), Vol. 5 No.1, 32-35, 2013.
19. Nahlah F. Makki, Shaymaa A. Kadhim, A.H. Alasadi, B.A. Almayahi. International Journal of Computer Trends and Technology (IJCTT). Natural Radioactivity Measurements in different regions in Najaf city, Iraq, 9, 286–289, 2014.
20. B.A. Almayahi, A.A. Tajuddin, M.S. Jaafar, 2014. Calibration technique for a CR-39 detector for soil and water radon exhalation rate measurements. Journal of Radioanalytical and Nuclear Chemistry, 301, 133-140.

21. B.A., Almayahi. Gamma spectroscopic of soil samples from Kufa in Najaf governorate. *World Applied Sciences Journal*, (9): 1582-1588, 2014.
22. H.A. Alshamarti, Ali K. Hussein, B.A. Almayahi. Application of median filter with the threshold Technique to reduce and remove Gaussian noise on the Iraq. Image edges produced by Sobel operator. *International Journal of Computer Engineering and Technology (IJCET)*, Volume 4, Issue 6, November - December (2013), pp. 121-126.
23. Ali K. Alsaedi, B.A. Almayahi, A.H. Alasadi. Cement ^{222}Rn and ^{226}Ra concentration measurements in selected samples from different companies. *Asian journal of natural and applied sciences*, Vol. 2 No. 4, 2013:95-100
24. B.A. Almayahi, Asaad K. Alsaedi, Ali K. Alsaedi, A.H. Alasadi, Azhar S. Ali, Raad. O. Hussein, Hayder. H. Hussain, 2014. Ceramic Rn^{222} exhalation rates from different countries. *International Journal of Scientific and Engineering Research*, Volume 5, Issue 1, January-2014
25. B.A. Almayahi, Asaad K. Alsaedi, Ali K. Alsaedi, A.H. Alasadi, Azhar S. Ali, Raad. O. Hussein, Hayder. H. Hussain. Bricks Rn^{222} Exhalation Rates in Some Samples from Different Countries. *World Applied Sciences Journal*, 29 (6): 706-709, 2014.
26. B.A. Almayahi. Radiation dose assessment due to ^{222}Rn of some soil samples in Dywaniya city, Iraq. *International Journal of Environmental Engineering– IJEE*, 1(4), 2014: 100-102.
27. Almayahi B. A., Hakeem E., Faris jawad Alduhaidahawi, Aqeela H. Heavy Metals Concentration in Different Soil Samples in Najaf City, Iraq. *International Journal of Engineering Trends and Technology (IJETT)*, 16, 2014: 69-71.
28. Almayahi B. A. Backscattering factor measurements of gamma rays of the different thickness of pure concrete. *Radiation Research and Applied Sciences*, 2015: 1-4.
29. Almayahi B. A. NaI (Tl) Spectrometry to Natural Radioactivity Measurements of Soil Samples in Najaf City. *Iranica Journal of Energy Environment*, 2015, 6 (3): 207-211.
30. Almayahi B. A. Quantification of Alpha Particle Emission in Human Blood Samples in the City of Najaf, Iraq. *Journal of Environmental Indicators*, 9 : 26, 2015.
31. Faris jawad Alduhaidahawi, Almayahi B. A., Kifah Saleh Alasadi, Kasim Alasadi. Gases Pollutants and Trace Element Concentrations in the Air of Najaf City, Iraq. *International Journal of Environmental Monitoring and Protection* 2015; 2(4): 47-51.
32. B. A. Almayahi, A. H. Alasadi. ^{222}Rn and ^{226}Ra Concentrations in Some Global Fertilizer Samples. *American Journal of Modern Physics and Application* 2015; 2(4): 58-61.

33. Entisar Farhan S., B. A. Almayahi. Investigation of the Atomic Properties for Helium-Like. *Open Science Journal of Modern Physics* 2015; 2(5): 80-82.
34. Aseel Fadel Ayoub Alfarhad, B. A. Almayahi. Effect of Geographic Factors on the Establishment of Ghadeer Village with Geometric Scheme Models in Najaf, Iraq. *American Journal of Engineering, Technology and Society* 2015; 2(5): 96-104.
35. B. A. Almayahi. Diabetes Mellitus and Its Complications in Najaf City, Iraq. *American Journal of Biology and Life Sciences* 2015; 3(5): 181-186.
36. B. A. Almayahi, Faris J. Alduhaidahawi, Kasim Kadhim Alasedi, 2015. Hydrocarbon and trace elements concentrations in Najaf city, Iraq. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*.
37. Laith B Alhusseini, Ali S Kadhim, Maytham M Alabassi, B A Almayahi. A Study of Some Immunological and Biochemical Indicators for Patients with Osteoporosis. *Electronic Journal of Biology*, 2016, 12 (1): 8-11.