***Curriculum Vitae***

**Nada Farhan Kadhim**

***Mustansiriyah University – College of Science***

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**Personal Summary:**

* Full Professor.
* Mustansiriyah University / College of Science/Physics department

**Education:**

* Ph.D. #1: radiation physics /Al-Mustansiriyah University/College of Science/ physics department /2005
* M.Sc. #2: physics of laser/ University of Technology/ applied Sciences/1995
* B.Sc. #3:material science/ University of Technology/ applied Sciences/1991

**ACADEMIC /TEACHING EXPERIENCE:**

* #1: radiation physics/ health physics/ medical optics.
* #2: medical physics/ medical instruments/ laboratory instruments.

**COURSES TAUGHT:**

|  |  |
| --- | --- |
| **Undergraduate** | **Graduate** |
| Heath physics | Radiation physics |
| Medical physics |  |
| Medical optics |  |
| Medical instruments |  |
| Laboratory instruments |  |
| General physics |  |

**PROFESSIONAL AFFILIATIONS:**

* Former director of the Division of Quality Assurance

**PUPLICATIONS:**

1. Growth of urea crystal from aqueous and alcohol solutions and study its structural and spectral properties.
2. Study the structural and spectral properties of bismuth germanium oxide crystal.
3. Effect of focal sizes in X-ray tube on radiographic image.
4. Radiation Contamination of soil in Baghdad governorate.
5. Radon concentrations measurement in the air inside the homes.
6. Determine the radioactive elements in some agricultural crops
7. Determination of Radon and Thoron concentration in different kinds of local and imported Tobacco samples.
8. Alpha emitters in local and imported agriculture products.
9. Determination of alpha particles in the blood of smokers.
10. Detection of radionuclides in some samples of human tissues.
11. The study of natural radioactivity in some samples of tobacco imported into Iraq from unknown origins.
12. Measurement of Radon Gas Concentration in Soil and Water Samples in Salahaddin Governorate-Iraq Using Nuclear Track Detector (CR-39).
13. Evaluation of Annual Individual Effective Dose in Soil Samples of Fuel Fabrication Facility (FFF) at Al-Tuwaitha Nuclear Site.
14. Indoor risk assessment of radon gas in the science college buildings-University of Mustansiriyah using RAD-7 detector.
15. Natural radioactivity and associated dose rates in soil samples in the destroyed fuel fabrication facility, Iraq.
16. Measurement of natural radioactivity in Al-Dora refinery by using (HPGe) detector.
17. Studying different etching methods using CR-39 nuclear Track detector.
18. Specific activities and radiation hazard parameters calculations of natural radionuclides in Al-Mustansiriyah university soils using NaI(Tl) detectors.
19. Measurement of natural radioactivity in Al-Dora Refinery by using (HPGe) detector.
20. study and analysis of axes and paragraphs evaluating the performance efficiency of the faculty for the academic year 2011/2012 form and design proposed by the alternative form.
21. Development of alpha tracks measurement with thermal oven as an etching technique for SSNTDs.
22. Optimum heating techniques in etching LR-115 nuclear track detector.
23. Effects of Changing the Exposure Time of CR-39 Detector to Alpha Particles on Etching Conditions.
24. Radiation hazards of the moassel consumed in Baghdad/Iraq using NaI(Tl) gamma spectroscopy.
25. Correlation between the Track Density and Absorbance of Alpha Particles using CR-39 Detectors from UV-Visible Spectrum.
26. Determination of Alpha Rates Emitted from Animal Bones Using CN-85 Nuclear Track Detector.
27. Determination of Track Density of Animal Bones using CN-85 Detector.
28. Radiation hazard of Chemical Fertilizers used in Growing Agriculture Crops in Iraq.
29. Estimation of the Radiation Hazards Indices of Organic Fertilizers Using NaI(Tl) Gamma Spectrometer.
30. Surface Contamination and Dose Rate Verification of Fertilizers common in Iraqi Plantations using Rad-Eye B20 Detector.
31. Transfer factor of natural radionuclides from soil to silhouette plants using gamma spectroscopy.
32. Radiation Hazards Indices of Silhouette Plants in Spring and Summer Seasons.
33. Study the Effect of Gamma Rays on the Spleen and Liver of Albino Male Mice.
34. 31. Effects of External Radiation Exposure on some Hematological Parameters of Hospitals Workers Staff.
35. Safe 241Am–Be Neutron Source from Alpha Point Resource.
36. Investigation of the favorable etching time of CN-85 nuclear track detector.
37. Measurement the natural radioactivity of Chicken meat samples from Karbala governorate.
38. Measurement the natural radioactivity of Sheep meat samples from Karbala governorate.
39. Activity concentration and radiometric hazards in meat and bone cow samples from Karbala governorate.
40. Hazard Indices and Age Group Parameters of Powder Milk Consumed in Iraq.
41. The plant transfer factor of natural radionuclides and the soil radiation hazard of some crops.
42. Determining the natural radioactivity of spices widely used in Iraq.
43. Comparison of Three Techniques for Measuring Radon Gas.

**PROFFESSIONAL DEVELOPMENT**

* **Certifications.**

1. Basics of laser and plasma.
2. Run acidification hardware maintenance services.
3. Radiation protection.
4. Tumors, cancer and immunology.
5. How to use the calculator and copyright star word system.
6. Teaching methods to newly appointed.
7. Arab training course in laser applications web design.
8. The basics of networking and networking.
9. Browsing via the Internet and create e-mail.
10. Thirteenth qualifying session in the use of computer.

* **Conferences.**

1. Sixth Conference of the foundation of technical Education.
2. Seventh Conference of the foundation of technical Education.
3. Eighth Conference of the foundation of technical Education.
4. Tenth Congress of the foundation of technical Education.
5. Fifth Conference of the use of nuclear techniques in environmental studies.
6. Sixth Conference of the use of nuclear techniques in environmental studies.
7. Eleven Conference of the foundation of technical Education
8. School cimpa-unisco, recent topics in geometric analysis.
9. Twelfth Conference the foundation of technical Education.
10. Third International Scientific conference on nanotechnology and advanced materials physics conference.

* **Workshops.**

1. School cimpa-unisco, recent topics in geometric analysis.

الاسم الثلاثي واللقب : ا.د.ندى فرحان كاظم الربيعي.

مكان العمل :الجامعة المستنصرية/كلية العلوم / قسم الفيزياء.

البريد الالكتروني :nadaph2020 @yahoo.com.

**الشهادات الجامعية:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **الشهادة** | **الجامعة** | **الكلية** | **القسم** | **تاريخ التخرج** | **الاختصاص العام** | **الاختصاص الدقيق** |
| **بكلوريوس** | التكنولوجية | --- | العلوم التطبيقية | 1991 | فيزياء | فيزياء مواد |
| **ماجستير** | التكنولوجية | --- | العلوم التطبيقية | 1995 | فيزياء | فيزياء ليزر |
| **دكتوراه** | المستنصرية | العلوم | الفيزياء | 2005 | فيزياء | فيزياء اشعاعية |

**الالقاب العلمية:**

|  |  |
| --- | --- |
| مدرس مساعد | 7 /35 / 8887 بتاريخ 27 / 7 / 1995 |
| مدرس | 7 / 35 /3692 بتاريخ 25 / 3 / 1999 |
| استاذ مساعد | 7/35/ 17054 بتاريخ 12 / 9 / 2001 |
| استاذ | 2021 |

**البحوث المنشورة:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ت** | **عنوان البحث** | **جهة النشر** | **المجلد** | **العدد** | **التاريخ** |
| **1** | انماء بلورة اليوريا من المحاليل المائية والكحولية ودراستها تركيبيا | مجلة الهندسة والتكنولوجيا |  |  | 1994 |
| **2** | دراسة طيفية وتركيبية لبلورة اوكسيد البزموث جرمانيوم | مجلة الهندسة والتكنولوجيا |  |  | **1995** |
| **3** | تأثير الاحجام البؤرية في انابيب الاشعة على الصورة الشعاعية | وقائع المؤتمر السادس للهيئة | البحوث الطبية |  | 1998 |
| **4** | تلوث تربة محافظة بغداد بالاشعاعات | مجلة التقني | البحوث التقنية | 71 | 2000 |
| **5** | قياس تراكيز الرادون في الهواء داخل الدور السكنية | وقائع المؤتمر السابع للهيئة | البحوث الطبية |  | 2000 |
| **6** | تحديد العناصر المشعة في بعض المحاصيل الزراعية | وقائع المؤتمر السابع للهيئة | البحوث الطبية |  | 2000 |
| **7** | حساب مطلقات الفا في دماء المدخنين | وقائع المؤتمر السابع للهيئة | البحوث الطبية |  | 2000 |
| **8** | الكشف عن النويدات المشعة في بعض العينات لانسجة بشرية | مجلة جامعة النهرين | **11** | **2** | **2008** |
| **9** | دراسة النشاط الاشعاعي الطبيعي في بعض عينات التبغ المستورد الى العراق من مناشيء مجهولة | المجلة الطبية الاردنية | 43 | 2 | **2009** |
| **10** | Determination of Radon and Thoron concentration in different kinds of local and imported Tobacco samples | Fondazione Giorgio Ronchi | 64 | 4 | **2010** |
| **11** | Alpha emitters in local and imported agriculture products | مجلة كلية التربية/  الجامعة المستنصرية |  | 6 | **2001** |
| **12** | دراسة وتحليل محاور وفقرات استمارة تقييم أداء كفاءة أعضاء الهيئة التدريسية للعام الدراسي 2011/2012 وتصميم استمارة مقترحة بديلة عنها | وقائع المؤتمر الرابع لضمان الجودة و الاعتماد الاكاديمي  جامعة الكوفة |  |  | 2013 |
| **13** | Measurement of Radon Gas Concentration in Soil and Water Samples in Salahaddin Governorate-Iraq Using Nuclear Track Detector (CR-39) | *Civil and Environmental Research* | 6 | 1 | ***2014*** |
| 15 | Evaluation of Annual Individual Effective Dose in Soil Samples of Fuel Fabrication Facility (FFF) at Al-Tuwaitha Nuclear Site | (IJAIEM*)* | 4 | 4 | **2015** |
| **16** | Indoor risk assessment of radon gas in the science college buildings-University of Mustansiriyah using RAD-7 detector | Iraqi journal of physics | 13 | 27 | 2015 |
| **17** | Natural radioactivity and associated dose rates in soil samples in the destroyed fuel fabrication facility, Iraq. | International journal of physics | 4 | 3 | **2016** |
| **18** | Measurement of natural radioactivity in Al-Dora refinery by using (HPGe) detector. | Advances in applied science research | 7 | 4 | **2016** |
| **19** | Studying different etching methods using CR-39 nuclear Track detector | Detection | 4 |  | **2016** |
| **20** | Specific activities and radiation hazard parameters calculations of natural radionuclides in Al-Mustansiriyah university soils using NaI(Tl) detectors | المجلة العراقية للفيزياء |  |  | **2016** |
| **21** | Studying the Radioactivity of Local and Imported Cars Oil  in Baghdad Using High Purity Germanium Detector | Nuclear Science | (2): 37-43 | 2 | 2017 |
| **22** | Investigation of Radionuclides in Breast and Uterus Female Human Tissues Using Gamma Ray Spectroscopy | وقائع المؤتمر العلمي النسوي الثالث |  |  | 7- 8 2016 |
| **23** | Investigation of the favorable etching time of CN-85 nuclear track detector | **Applied Radiation and Isotopes** | **Vol.135 ,**  **(28-32)** |  | **2018** |
| **24** | Radiation hazards of the moassel consumed in Baghdad/Iraq using NaI(Tl) gamma spectroscopy | **International Journal of Environmental Science and Technology** | **Vol.16, Issu 12 ,pp.8209-8216, December 2019** |  | 2019 |
| **25** | **S**afe 241Am-Be neutron source from alpha point resource | **Iranian Journal of Science and Technology Transactions A: Science** | **Vol.43 , No.5, pp.2673-2677, June** |  | 2019 |
| **26** | **Correlation between the Track Density and Absorbance of Alpha Particles using CR-39 Detectors from UV-Visible Spectrum** | **journal of physical science** | **Vol.30 , No.2, pp.37-49 , August** |  | **2019** |