الدكتور أيمن محمد عبدالمعطي

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| **No.** | **Title of the paper / book** | **Date of publication** | **Journal/publisher** |
| **1** | Detection efficiency of alpha particles using CR-39 nuclear detector- etched with BSW | **2022** | [Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms](https://www.scopus.com/authid/detail.uri?authorId=36450112500#disabled) |
| **2** | An exhaustive study of the efficiency and sensitivity of a radon cell coated with a new scintillation material | **2022** | [Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment](https://www.scopus.com/authid/detail.uri?authorId=36450112500#disabled) |
| **3** | Detection of ionizing radiation using Ag-doped ZnS nanoparticles | **2022** | [Journal of Materials Science: Materials in Electronics](https://www.scopus.com/authid/detail.uri?authorId=36450112500#disabled), |
| **4** | Alpha particles detection using P3HT conducting polymer-coated DAM-ADC | **2022** | [Radiation Physics and Chemistryt](https://www.scopus.com/authid/detail.uri?authorId=36450112500#disabled) |
| **5** | Radon gas build up using alpha scintillation cell: Experimentally and theoretically | **2021** | [Applied Radiation and Isotopes](https://www.scopus.com/authid/detail.uri?authorId=36450112500#disabled) |
| **6** | [Gamma irradiation effect towards photoluminescence and optical properties of Makrofol DE 6-2](https://www.scopus.com/record/display.uri?eid=2-s2.0-85075262723&origin=resultslist&sort=plf-f&src=s&st1=Abdalla&st2=Ayman&nlo=1&nlr=20&nls=count-f&sid=bb065f16008c9ca17186a9d131e99399&sot=anl&sdt=aut&sl=38&s=AU-ID%28%22Abdalla%2c+Ayman+M.%22+36450112500%29&relpos=0&citeCnt=3&searchTerm=) | **2020** | [Radiation Physics and Chemistry](https://www.scopus.com/sourceid/29513?origin=resultslist) |
| **7** | [Soil radon detection using active scintillation cell](https://www.researchgate.net/publication/343303529_Soil_radon_detection_using_active_scintillation_cell?_sg=m_QsB-7xw5oesVaBqlxGV29gSp_hlar12XgPBj4TGODOVMrxGF4vzduOuWaZoawq2BS1y2O2Ht-Nw8bnzUbpCpCz2JQtDjg-omsaBvYC.6K9SQTyFGFIShZtP9dwjvy2MMPTZllUXlLuCcl42tmocuSztboG6olcgaW2Qf9WmLnodIzYwM_DmwZof1kIiGg) | **2020** | * Journal of Radiation Research and Applied Sciences |
| **8** | CPRD Supplied with Native Scintillator for Radon Gas Detection | **2019** | Arab Journal of Nuclear Sciences and Applications |
| **9** | Radon detection using alpha scintillation KACST cell | **2019** | Nuclear Inst. and Methods in Physics Research, A 922 (2019) 84–90 |
| **10** | Characterization and radiation detection application of ZnS(Ag) nanoparticles | **2018** | Physica B: Physics of Condensed Matter (2018) |
| **11** | Measurement of Indoor Radon Concentrations in Different Dwellings in Arar, Saudia Arabia | **2018** | [Nuclear Technology and Radiation Protection](https://www.scopus.com/sourceid/19200157111?origin=resultslist) |
| **12** | Detection capabilities of alpha particles and gamma rays using DAM–ADC scintillator | **2018** | Nuclear Inst. and Methods in Physics Research, A 901 (2018) 99–103 |
| **13** | Radon | **2017** | ISBN 978-953-51-5482-2 |
| **14** | [Study of the optical properties and the carbonaceous clusters in DAM-ADC solid state nuclear track detectors](https://www.scopus.com/record/display.uri?eid=2-s2.0-85021350318&origin=resultslist&sort=plf-f&src=s&st1=abdalla&st2=ayman&nlo=1&nlr=20&nls=count-f&sid=29d48768f90df2a4715ca742b2b75d2f&sot=anl&sdt=aut&sl=38&s=AU-ID%28%22Abdalla%2c+Ayman+M.%22+36450112500%29&relpos=0&citeCnt=0&searchTerm=) | **2017** | Radiation Physics and Chemistry |
| **15** | [The activity concentrations of 222Rn in some groundwater wells, Najran city, Saudi Arabia](https://www.scopus.com/record/display.uri?eid=2-s2.0-85026471356&origin=resultslist&sort=plf-f&src=s&st1=abdalla&st2=ayman&nlo=1&nlr=20&nls=count-f&sid=29d48768f90df2a4715ca742b2b75d2f&sot=anl&sdt=aut&sl=38&s=AU-ID%28%22Abdalla%2c+Ayman+M.%22+36450112500%29&relpos=1&citeCnt=0&searchTerm=) | **2017** | [Nuclear Technology and Radiation Protection](https://www.scopus.com/sourceid/19200157111?origin=resultslist) |
| **16** | Study on the sensitivity of makrofol-e polycarbonate detector | **2016** | journal of nuclear research and development |
| **17** | [Photoluminescence detection of alpha particle using DAM-ADC nuclear detector](https://www.scopus.com/record/display.uri?eid=2-s2.0-84970027585&origin=resultslist&sort=plf-f&src=s&st1=abdalla&st2=ayman&nlo=1&nlr=20&nls=count-f&sid=29d48768f90df2a4715ca742b2b75d2f&sot=anl&sdt=aut&sl=38&s=AU-ID%28%22Abdalla%2c+Ayman+M.%22+36450112500%29&relpos=2&citeCnt=1&searchTerm=) | **2016** | [Nuclear Instruments and Methods in Physics Research, Section A: Accelerators,](https://www.scopus.com/sourceid/29067?origin=resultslist) |
| **18** | [Registration of alpha particles in Makrofol-E nuclear track detectors](https://www.scopus.com/record/display.uri?eid=2-s2.0-84964022187&origin=resultslist&sort=plf-f&src=s&st1=abdalla&st2=ayman&nlo=1&nlr=20&nls=count-f&sid=29d48768f90df2a4715ca742b2b75d2f&sot=anl&sdt=aut&sl=38&s=AU-ID%28%22Abdalla%2c+Ayman+M.%22+36450112500%29&relpos=3&citeCnt=2&searchTerm=) | **2016** | [Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms](https://www.scopus.com/sourceid/29068?origin=resultslist) |
| **19** | [Structural and optical investigation on alpha particle irradiated CR-39surface coated by MEH-PPV conducting polymer](https://www.scopus.com/record/display.uri?eid=2-s2.0-84930958719&origin=resultslist&sort=plf-f&src=s&st1=abdalla&st2=ayman&nlo=1&nlr=20&nls=count-f&sid=29d48768f90df2a4715ca742b2b75d2f&sot=anl&sdt=aut&sl=38&s=AU-ID%28%22Abdalla%2c+Ayman+M.%22+36450112500%29&relpos=8&citeCnt=2&searchTerm=) | **2015** | [Applied Surface Science](https://www.scopus.com/sourceid/28983?origin=resultslist) |
| **20** | [Fast detection of alpha particles in DAM-ADC nuclear track detectors](https://www.scopus.com/record/display.uri?eid=2-s2.0-84910631746&origin=resultslist&sort=plf-f&src=s&st1=abdalla&st2=ayman&nlo=1&nlr=20&nls=count-f&sid=29d48768f90df2a4715ca742b2b75d2f&sot=anl&sdt=aut&sl=38&s=AU-ID%28%22Abdalla%2c+Ayman+M.%22+36450112500%29&relpos=7&citeCnt=5&searchTerm=) | **2015** | Radiation Physics and Chemistry |
| **21** | [Fast neutrons detection in CR-39 and DAM-ADC nuclear track detectors](https://www.scopus.com/record/display.uri?eid=2-s2.0-84911880839&origin=resultslist&sort=plf-f&src=s&st1=abdalla&st2=ayman&nlo=1&nlr=20&nls=count-f&sid=29d48768f90df2a4715ca742b2b75d2f&sot=anl&sdt=aut&sl=38&s=AU-ID%28%22Abdalla%2c+Ayman+M.%22+36450112500%29&relpos=6&citeCnt=2&searchTerm=) | **2015** | [Radiation Physics and Chemistry](https://www.scopus.com/sourceid/29513?origin=resultslist) |
| **22** | [Radon irradiation chamber and its applications](https://www.scopus.com/record/display.uri?eid=2-s2.0-84926202369&origin=resultslist&sort=plf-f&src=s&st1=abdalla&st2=ayman&nlo=1&nlr=20&nls=count-f&sid=29d48768f90df2a4715ca742b2b75d2f&sot=anl&sdt=aut&sl=38&s=AU-ID%28%22Abdalla%2c+Ayman+M.%22+36450112500%29&relpos=5&citeCnt=1&searchTerm=) | **2015** | [Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment](https://www.scopus.com/sourceid/29067?origin=resultslist) |
| **23** | [Dependence of alpha particle track diameter on the free volume holes size using positron annihilation lifetime technique](https://www.scopus.com/record/display.uri?eid=2-s2.0-84938863101&origin=resultslist&sort=plf-f&src=s&st1=abdalla&st2=ayman&nlo=1&nlr=20&nls=count-f&sid=29d48768f90df2a4715ca742b2b75d2f&sot=anl&sdt=aut&sl=38&s=AU-ID%28%22Abdalla%2c+Ayman+M.%22+36450112500%29&relpos=4&citeCnt=0&searchTerm=) | **2015** | [Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms](https://www.scopus.com/sourceid/29068?origin=resultslist) |
| **24** | [Etching characteristic studies for the detection of alpha particles in DAM-ADC nuclear track detector](https://www.scopus.com/record/display.uri?eid=2-s2.0-84899839057&origin=resultslist&sort=plf-f&src=s&st1=abdalla&st2=ayman&nlo=1&nlr=20&nls=count-f&sid=29d48768f90df2a4715ca742b2b75d2f&sot=anl&sdt=aut&sl=38&s=AU-ID%28%22Abdalla%2c+Ayman+M.%22+36450112500%29&relpos=10&citeCnt=7&searchTerm=) | **2014** | Radiation Physics and Chemistry |
| **25** | [The use of CH3OH additive to NaOH for etching alpha particle tracks in a CR-39 plastic nuclear track detector](https://www.scopus.com/record/display.uri?eid=2-s2.0-84899091909&origin=resultslist&sort=plf-f&src=s&st1=abdalla&st2=ayman&nlo=1&nlr=20&nls=count-f&sid=29d48768f90df2a4715ca742b2b75d2f&sot=anl&sdt=aut&sl=38&s=AU-ID%28%22Abdalla%2c+Ayman+M.%22+36450112500%29&relpos=9&citeCnt=6&searchTerm=) | **2014** | Radiation Physics and Chemistry |
| **26** | High resolution for low energy alpha particle spectroscopy using cr-39 solid state nuclear track detectors | **2014** | Journal of nuclear research and development |
| **27** | Physics Activities & Exercises Book | **2013** | ISBN: 978 – 977- 705- 007- 4 |
| **28** | Physics First year secondary | **2013** | ISBN :978-977-493-154-1 |
| **29** | DAM-ADC Nuclear track detector: And It's Applications | **2013** | ISBN :3659313017 |
| **30** | New approach for alpha particle residual energy calibration | **2013** | journal of nuclear research and development |
| **31** | [A nuclear tester for micro-hardness measurement](https://www.scopus.com/record/display.uri?eid=2-s2.0-84868096280&origin=resultslist&sort=plf-f&src=s&st1=abdalla&st2=ayman&nlo=1&nlr=20&nls=count-f&sid=29d48768f90df2a4715ca742b2b75d2f&sot=anl&sdt=aut&sl=38&s=AU-ID%28%22Abdalla%2c+Ayman+M.%22+36450112500%29&relpos=11&citeCnt=5&searchTerm=) | **2012** | [Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms](https://www.scopus.com/sourceid/29068?origin=resultslist) |
| **32** | [Measurement of radon permeability through polyethylene membrane using scintillation detector](https://www.scopus.com/record/display.uri?eid=2-s2.0-78650818557&origin=resultslist&sort=plf-f&src=s&st1=abdalla&st2=ayman&nlo=1&nlr=20&nls=count-f&sid=29d48768f90df2a4715ca742b2b75d2f&sot=anl&sdt=aut&sl=38&s=AU-ID%28%22Abdalla%2c+Ayman+M.%22+36450112500%29&relpos=12&citeCnt=7&searchTerm=) | **2011** | [Radiation Measurements](https://www.scopus.com/sourceid/29512?origin=resultslist) |
| **32** | Factors affecting upon the calibration factor of radon dosimeter: Theoretical and experimental study | **2010** | [Advanced Science Letters](https://www.scopus.com/sourceid/19700181106?origin=resultslist) |
| **34** | [Airborne 222Rn concentration in an Egyptian village](https://www.scopus.com/record/display.uri?eid=2-s2.0-0035983546&origin=resultslist&sort=plf-f&src=s&st1=abdalla&st2=ayman&nlo=1&nlr=20&nls=count-f&sid=29d48768f90df2a4715ca742b2b75d2f&sot=anl&sdt=aut&sl=38&s=AU-ID%28%22Abdalla%2c+Ayman+M.%22+36450112500%29&relpos=15&citeCnt=4&searchTerm=) | **2002** | [Health Physics](https://www.scopus.com/sourceid/13374?origin=resultslist) |
| **35** | [Temperature and humidity consideration for calculating airborne 222Rn using activated charcoal canisters](https://www.scopus.com/record/display.uri?eid=2-s2.0-0036286669&origin=resultslist&sort=plf-f&src=s&st1=abdalla&st2=ayman&nlo=1&nlr=20&nls=count-f&sid=29d48768f90df2a4715ca742b2b75d2f&sot=anl&sdt=aut&sl=38&s=AU-ID%28%22Abdalla%2c+Ayman+M.%22+36450112500%29&relpos=14&citeCnt=10&searchTerm=) | **2002** | [Health Physics](https://www.scopus.com/sourceid/13374?origin=resultslist) |