

Curriculum Vitae (CV)

Name

Abdelmoneim Ahmed Ahmed Saleh Elsaadani



Personal Information:

Academic Rank: Associate professor

Department: Basic Science department

Specialization: Physics

Position: Associate professor

Google Scholar: <https://scholar.google.com/citations?user=wQcjNiIAAAAJ&hl=en>

Research Gate: <https://www.researchgate.net/profile/Abdelmoneim-Saleh>

ORCID Record: <https://orcid.org/0000-0001-9315-9309>

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Education:

Degree	Discipline	Institution	Year
Ph.D.	Nuclear Physics	ZAGAZIG UNIVERSITY	2015
M.Sc.	Nuclear Physics	ZAGAZIG UNIVERSITY	2011
B.Sc.	Special Physics	ZAGAZIG UNIVERSITY	2007

Academic Experience:

Institution: Higher technological institute, 10th of Ramadan city

Rank: Associate professor

Dates: May 2025-till now

Institution: Faculty of Health Sciences, Universiti Sultan Zainal Abidin (UniSZA), Malaysia

Rank: Assistant Professor

Dates: June 2024- June 2025

Institution: Higher technological institute, 10th of Ramadan city

Rank: Lecturer/Assistant professor

Dates: 2015-May 2025

Institution: Higher technological institute, 10th of Ramadan city

Rank: Assistant lecturer

Dates: 2011-2015

Institution: Higher technological institute, 10th of Ramadan city

Rank: Teaching assistant

Dates: 2008-2011

Research interests:

- Monte Carlo Simulation for Nuclear and Medical Applications
- Gamma/X-ray Attenuation Studies
- Radiotherapy Physics
- Radiation Shielding Materials
- Thermal and Epithermal Neutron therapy
- Radiation Detection and Dosimetry
- Structural and Optical Characterization of Radiation-Exposed Materials

Publications:

- ❑ Abdelmoneim Saleh, Anastasiia Kobylukh, N.M. Basfer, S.M. Tajudin, Urszula Szeluga, Comprehensive examination of synthesis, microstructure, and radiation shielding effectiveness of multi-layered polymeric GNP-nanocomposites, Radiation Physics and Chemistry 237 (2025) 113078, <https://doi.org/10.1016/j.radphyschem.2025.113078>
- ❑ Assessing carcinogenic radon levels in water from Er-Rachidia, Morocco using LR-115 nuclear track detectors, Radiochim. Acta 2025; aop, <https://doi.org/10.1515/ract-2024-0323>
- ❑ Abdelmoneim Saleh and Nermin Ali Abdelhakim, Synthesis, physical, structure, mechanical and ionizing radiation shielding properties of some bismuth-based alloys: Comparative investigation, Radiation Physics and Chemistry 229 (2025) 112510, <https://doi.org/10.1016/j.radphyschem.2025.112510>
- ❑ Comprehensive investigation on physical, structural, mechanical and nuclear shielding features against X/gamma-rays, neutron, proton and alpha particles of various binary alloys, Radiation Physics and Chemistry 216 (2024) 111443, <https://doi.org/10.1016/j.radphyschem.2023.111443>
- ❑ Abdelmoneim Saleh, M. I. Sayyed, Anjan Kumar, Fatma Elzahraa Mansour, Synthesis and gamma-ray shielding efficiency of borosilicate glasses doped with Zinc oxide: Comparative study, 2024, Silicon, <http://dx.doi.org/10.21203/rs.3.rs-3925330/v1>

- ❑ Abdelmoneim Saleh, Fatma Elzahraa Mansour, Nermin Ali Abdelhakim, An appropriate balance of mechanical and ionized radiation shielding performance across some tin binary alloys: A comparative investigation, 2024, <https://doi.org/10.1016/j.radphyschem.2024.111726>
- ❑ Rapid fabrication, magnetic, and radiation shielding characteristics of NiFe₂O₄ nanoparticles, Optical Materials Express, Vol. 14, No. 5, 2024 / 1170, <https://doi.org/10.1364/OME.521679>
- ❑ Experimental examination on physical and radiation shielding features of boro-silicate glasses doped with varying amounts of BaO, 2024, Nuclear Engineering and Technology, <https://doi.org/10.1016/j.net.2024.03.038>
- ❑ Abdelmoneim Saleh, N.A. Harqani, Wafaa Al-Ghamdi, Khalda T. Osman, A. Sh.M. Elshoukrofy, The role of MoO₃ on the physical, elasto-mechanical and nuclear shielding efficiency of barium-boro-bismuthate glass system: Comparative investigation, *Materials Chemistry and Physics*, Volume 322, 1 August 2024, 129574, <https://doi.org/10.1016/j.matchemphys.2024.129574>
- ❑ EPR studies and radiation shielding properties of silver aluminum phosphate glasses, Applied physics A (2023) 129:410, <https://doi.org/10.1007/s00339-023-06681-3>
- ❑ Role of Al₂O₃, WO₃, Nb₂O₅, and PbO on the physical, elasto-mechanical and radiation attenuation performance of borotellurite glasses, *J Mater Sci: Mater Electron* (2023) 34:191, <https://doi.org/10.1007/s10854-022-09604-9>
- ❑ Abdelmoneim Saleh, Comparative shielding features for X/Gamma-rays, fast and thermal neutrons of some gadolinium silicoborate glasses, 2022 *Progress in nuclear energy*,. <https://doi.org/10.1016/j.pnucene.2022.104482>
- ❑ Effect of 0.3 wt.% TiO₂ nanoparticle on the thermal, structural, and mechanical properties of Sn_{3.8}Ag_{0.7}Cu_{1.0}Zn solder alloy, *Physica scripta* 97(2022) 105709. <https://doi.org/10.1088/1402-4896/ac90fb>
- ❑ A. Saleh, Rizk Mostafa Shalaby, Nermin Ali Abdelhakim, Comprehensive study on structure, mechanical and nuclear shielding properties of lead free Sn–Zn–Bi alloys as a powerful radiation and neutron shielding material, *Radiation Physics and Chemistry*, Volume 195, 2022, 110065, <https://doi.org/10.1016/j.radphyschem.2022.110065>.
- ❑ The Impact of CdO on the Radiation Shielding Properties of Zinc-Sodium-Phosphate Glass Containing Barium, *Arab J. Nucl. Sci. Appl.*, Vol. 55, 1, 116 -126 (2022). <https://doi.org/10.21608/ajnsa.2021.80370.1478>
- ❑ Comprehensive study on structure, mechanical and nuclear shielding properties of lead free Sn-Zn-Bi alloys as a powerful radiation and neutron shielding material, *Radiation physics and chemistry* 195 (2022) 110065. <https://doi.org/10.1016/j.radphyschem.2022.110065>.

- ❑ Experimental and theoretical investigation on physical, structure and protection features of TeO₂-B₂O₃ glass doped with PbO in terms of gamma, neutron, proton and alpha particles, *Radiation physics and chemistry* 202 (2022) 110586. <https://doi.org/10.1016/j.radphyschem.2022.110586>
- ❑ A new focus on the role of iron oxide in enhancing the structure and shielding properties of Ag₂O–P₂O₅ glasses, *Eur. Phys. J. Plus* (2021) 136:947. <https://doi.org/10.1140/epjp/s13360-021-01948-1>
- ❑ Neutron transmission through bulk imperfect single crystals. 'Journal of Nuclear and Radiation Physics.' (2014) 9.
- ❑ M. Adib, N. Habib, I. Bashter, H.N. Morcos, M. Fathallah, M.S. El-Mesiry, A. Saleh, Neutron characteristics of single-crystal magnesium fluoride, *Annals of Nuclear Energy*, Volume 60, 2013, Pages 163-171, ISSN 0306-4549, <https://doi.org/10.1016/j.anucene.2013.04.024>.
- ❑ Neutron transmission through pyrolytic graphite crystal II : 'Annals of Nuclear Energy journal' (2011) 38, 802–807. <http://dx.doi.org/10.1016/j.anucene.2010.11.018>
- ❑ MgO single-crystal as an efficient thermal neutron filter. 'Annals of Nuclear Energy journal' (2011) 38, 2673–2679. <http://dx.doi.org/10.1016/j.anucene.2011.08.001>
- ❑ Neutron characteristics of single-crystal magnesium fluoride. 'Annals of Nuclear Energy journal' (2013) 60, 163-171. <http://dx.doi.org/10.1016/j.anucene.2013.04.024>
- ❑ M. Adib, N. Habib, I. Bashter, A. Saleh, Neutron transmission through pyrolytic graphite crystal II, *Annals of Nuclear Energy*, Volume 38, Issue 4, 2011, Pages 802-807, <https://doi.org/10.1016/j.anucene.2010.11.018>.
- ❑ 2KeV Filters of quasi-mono-energetic neutrons. 'International Journal of Engineering Science and Innovative Technology' (2014) 3, 630-636. <https://inis.iaea.org/search/searchsinglerecord.aspx?recordsFor=SingleRecord&RN=46069160>
- ❑ M. Adib, N. Habib, I. Bashter, M. Fathallah, A. Saleh, MgO single-crystal as an efficient thermal neutron filter, *Annals of Nuclear Energy*, Volume 38, Issue 12, 2011, Pages 2673-2679, ISSN 0306-4549, <https://doi.org/10.1016/j.anucene.2011.08.001>.

Certifications or Professional Registrations:

Ph.D. in Nuclear and Radiation Physics

- Institution: Faculty of Science, Zagazig University, Egypt
- Year: 2015

□ M.Sc. in Nuclear Physics

- Institution: Faculty of Science, Zagazig University, Egypt
- Year: 2011

□ B.Sc. in Special Physics

- Institution: Faculty of Science, Zagazig University, Egypt
- Year: 2007

Grade: Very Good with Honors (1st Honor Class)

- Effective teaching and learning strategies for colleges and institutes of higher education
- Exam systems and student assessment for colleges and institutes of higher education
- Description of programs and courses and evaluation of learning outcomes for colleges and institutes of higher education
- Promoting your research capabilities - The modern knowledge cycle
- TOEFL: American University in Cairo and Zagazig University).
- ICDL (UNISCO) – Latex - SPSS - Matlab – FORTRAN.

Teaching Experience:

1. Assistant Professor of Radiation Physics (Post-doctoral)

Institution: Faculty of Health Sciences, Universiti Sultan Zainal Abidin (UniSZA), Malaysia

Duration: June 2024 – June 2025

Responsibilities:

- Conduct independent and collaborative research; design and perform experiments or simulations; analyze data and stay updated with relevant literature.
- Prepare manuscripts for peer-reviewed journals; present research at conferences and contribute to academic reports or institutional outputs.

- Manage daily operations of research projects; coordinate with team members; ensure accurate documentation of progress and results.
- Mentor undergraduate and postgraduate students; support training of junior researchers in experimental design, analysis, and writing.
- Assist in writing research proposals and fellowship applications; support budget management for funded projects.
- Deliver lectures, lead tutorials, supervise lab sessions or student projects, and contribute to curriculum development when required.
- Develop research expertise and professional skills; engage in networking; ensure compliance with ethical, institutional, and safety standards.

2. Lecturer / Assistant Professor of Physics

Institution: Higher Technological Institute (HTI), Basic Science Department, Egypt

Duration: 2015 – June 2024

Responsibilities:

- Deliver undergraduate and postgraduate courses in radiation physics and related disciplines (e.g., nuclear physics, health physics, radiation protection).
- Develop course syllabi, lectures, laboratory manuals, and assessment tools in alignment with program outcomes.
- Implement blended learning approaches and integrate simulations and modern teaching technologies.
- Supervise research projects with a focus on impactful and applicable outcomes in radiation science.
- Supervise undergraduate and postgraduate students in academic projects and thesis work.
- Guide students in experimental design, data interpretation, and scientific writing.
- Provide academic advising and support career development.
- Serve on departmental, faculty, and university committees contributing to academic governance.

- Participate in curriculum review, quality assurance processes, and accreditation efforts.
- Organize seminars, workshops, and scientific outreach activities within the university and community.
- Ensure strict compliance with radiation safety regulations in teaching and research laboratories.
- Train students and staff on the safe use of radioactive materials and radiation-emitting equipment.
- Oversee calibration, maintenance, and safety documentation for radiation instruments.
- Develop research proposals for national and international funding bodies.
- Manage research projects, budgets, and reporting obligations to funding agencies.
- Contribute to institutional strategies for research growth and innovation.
- Engage in continuous professional development through training, certifications, and workshops.
- Build academic networks through research collaborations and participation in professional societies.
- Promote the advancement of radiation physics through active contribution to the scientific community.
- Taught a wide range of undergraduate physics courses including:
 - Physics C (Optics, Atomic, Nuclear & Radiation Physics)
 - Modern Physics
 - Quantum Physics
 - Physics I (Properties of Matter, Fluids, Thermodynamics)
 - Physics II (Electricity and Magnetism)
 - *Research and Analysis Skills
- Developed teaching materials and assessments.
- Contributed to quality assurance and exam systems for higher education.

Integrated interactive simulation programs and blended learning approaches in physics education