

Personal History



I. PERSONAL DATA:

1. Full Name: Mohamed Hamdy F. M.
Family name First Middle
2. Minia University: <https://staffportal.minia.edu.eg/hamdy.farghal/>
3. ORCID ID: <https://orcid.org/my-orcid?orcid=0000-0003-2547-4520>
4. World Ranking: <https://www.adscientificindex.com/scientist-print/6104716/>
5. Scopus Author: <https://www.scopus.com/authid/detail.uri?authorId=7102602599>
6. ResearchGate: https://www.researchgate.net/profile/Hamdy_Mohamed
7. Google Scholar: <https://scholar.google.com.eg/citations?user=RskGy9wAAAAJ&hl=en>
8. Web of Science: <https://www.webofscience.com/wos/author/record/B-2430-2013>
9. Semantic Scholar: <https://www.semanticscholar.org/me/research>
10. LinkedIn: <https://www.linkedin.com/in/hamdy-f-m-mohamed-b59b6338/>
11. ResearchIDs: [rid95593](https://www.researchid.co/rid95593) & <https://www.researchid.co/rid95593>
12. SciProfile: 1484296 & <https://sciprofiles.com/profile/HamdyFMMohamed>
13. Facebook: <https://www.facebook.com/profile.php?id=100091001370086&mibextid=ZbWKwL>
14. 16. Place & Date of Birth: Mallaway, Minia & 29/11/1965.
15. Nationality: Egyptian
16. Married: Yes
17. Address: Applied Physics and Renewable Energy Research (APRER) Laboratory, Physics Department, Faculty of Science, Minia University, B.O. 61519 Minia, Egypt, Tel./Fax (work): +20-86-2363011, Tel. (home): +20-86-2583181, Mobile: +20-1208281849. E-mails: hamdyfm@gmail.com & hamdy.farghal@mu.edu.eg

II. ACADEMIC QUALIFICATIONS:

Degree	University	Country	Date	Field of Specialization
Ph. D.	Minia	Egypt	29/6/1997	Applied Nuclear Physics
M. Sc.	Minia	Egypt	3/2/1992	Nuclear Physics
B. Sc.	Minia	Egypt	30/5/1987	Physics



Master thesis title:

“Short Lifetime Measurements of Some Excited States in Radioactive Sources”

Ph.D. thesis title:

“Study of Positron and Positronium Interaction with Some Molecular Materials”

Languages/Special Skills:

Arabic	Speaking ■	Reading ■	Writing ■
English	Speaking ■	Reading ■	Writing ■
Japanese	Speaking ■	Reading □	Writing □
Computer Skills	Windows 7, Windows XP, Windows 2000, MS Office 2016, Power Point, Publisher, Various Graphic Software, Internet Explorer, Experience Programmer Calculation for Fit and Communication using FORTRAN, BASIC, and LABVIEW software.		

III. PROFESSIONAL EXPERIENCE

Academic Positions:

Title	From - To	University	Country
Professor of Applied Nuclear Physics, Physics Department, Faculty of Science	26/8/2008– Till Now	Minia	Egypt
Executive manager of the Central Laboratory for Microanalysis and Nanotechnology	27/4/2022- 26/4/2025	Minia	Egypt
Head of the Renewable Energy Science & Engineering Department, Faculty of Postgraduate Studies for Advanced Science	18/8/2015– 31/7/2018	Beni-Suef	Egypt
Associate Professor, Physics Department, Faculty of Science	26/11/2002 –25/8/2008	Minia	Egypt
Assistant Professor, Physics Department, Faculty of Science	29/7/1997– 25/11/2002	Minia	Egypt
Instructor/Post-Doctoral, Physics Department, Faculty of Science	25/2/1992- 28/7/1997	Minia	Egypt
Teaching Assistant, Physics Department, Faculty of Science	22/11/1987 –24/2/1992	Minia	Egypt

Membership of Cultural, Educational and Professional Societies:

Member of	- American Physical Society (USA) (1-2002 to 1-2007) - Positron Science Society (Japan) (3-2007 to 3-2015) - Japanese Society of Radiation Chemistry (Japan) (3-2007 to 3-2015). - Society for Positron Annihilation and Nuclear Probes (India) (1-2015 to 1-2018) - Egyptian Physica Society (Egypt) (1-2016 to 1-2017). - Egyptian Nuclear Physics Association (Egypt) (1-1992 to date). - Egyptian Society of Solid-State Science and Application (Egypt) (1-1992 to date). - Egyptian Society of Polymer Science and Technology (Egypt) (1-1992 to date). - Egyptian Association for Nuclear Safety Experts (Egypt) (2015 to date) - Egyptian Society for Basic Sciences (Egypt) (2023 to date)
Committee	- International Scientific Committee of the International Workshop of Positron and Positronium Chemistry from 2017 till 2027. - International Relation of Faculty of Science, Minia University from 6/2019 to date
Editorial of	- Journal of Solid State Physics, Hindawi Publishing Corporation, UK (2016-2017). - World Journal of Applied Physics, Science Publishing Group, USA (2016). - Fine Chemical Engineering, Universal Wiser Publisher, USA (2019-date) - SCIREA Journal of Physics, Science Research Association, USA (2019-date). https://www.scirea.org/journal/EditorialBoard?JournalID=14000 - Insight – Physics, PiscoMed Publishing, Singapore (2019-date) - Nanoarchitectonics (NAT), Universal Wiser Publisher, Singapore (2019-date). http://ojs.wiserpub.com/index.php/NAT/about/editorialTeam - Current Chinese Science (Electronic and Crystal Structures), Bentham Science, United Arab Emirates, (2020-date) http://currentchinesescience.com/electronic-crystal-structures/editorial-board.php - Egyptian Journal of Physics, Egypt (2019-date).

	https://ejphysics.journals.ekb.eg/journal/editorial.board - Aswan University Journal of Science and Technology (AUJST), Aswan University, Egypt, (2020-date) https://journals.aswu.edu.eg/stjournal/editorial-board/ - Journal of the Egyptian Society for Basic Sciences (JESBS), Egypt (2023-date).
Reviewer of	- Egyptian Community for the Promotion of Professor and Associate Professor Degree. - Egyptian MSC thesis. - Project for collaborative research between Egyptian Institute (National Research Center) and Italian (CNR-TAE Institute of Energy Technology) under Academy of Scientific Research and Technology, Egypt. - Indian Ph.D. Thesis - Czech Science Foundation. - Saudi Arabia Projects (Tabuk University). - International Science and Engineering Fair (ISEF) Egypt (2015, 2016, 2017, 2018, 2019, 2020, 2021, 2023, and 2024). - Science, Technology, Engineering, and Mathematics (STEM) Journal for the 3rd grad at Beni-Suef on the Secondary School (2022, 2023, and 2024). - Science, Technology, Engineering, and Mathematics (STEM) Capstone for the 2nd grad at Beni-Suef on the Secondary School (2022 and 2024). - Science, Technology, Engineering, and Mathematics (STEM) Capstone for the 1st grad at El-Minia Secondary School (2022, 2023 and 2024). - Science, Technology, Engineering, and Mathematics (STEM) Capstone for the 2nd grad at El-Minia Secondary School (2023). - Science fiction story, Faculty of Science, Minia University (2017, 2018) - Polymer, Journal of Applied Polymer Science, Industrial & Engineering Chemistry Research, Journal of Physics: Conference Series, Journal of Polymer Engineering, Journal of Molecular Structure, Journal of Research in Environmental Science and Toxicology, Journal of Alloys and Compounds, Egyptian Journal of Physics, Materials Science Forum, Applied Energy, Applied Radiation and Isotopes, and Polymers, Current Nanoscience.
Workshop or	Environmental Physics Conference 24-28/2/2004, (Minia

Conference Organizations	University, Minia). • Workshop on Enhancing Modeling and Simulation Technology in Training and Education of Physics, 8/12/2005 (Minia University, Minia). • 3rd International Conference on Advanced Basic & Applied Sciences (ABASIII), 17-20/11/2015 (Beni-Suef University, Hurghada). • Recent Advances in Renewable Energy Technologies-I, 28/2/2016 (Beni-Suef, Beni-suef University) • Recent Advances in Renewable Energy Technologies-II, 18/3/2017 (Beni-Suef, Beni-Suef University). • The Fourth International Conference on Advanced Sciences (ICAS4), 7-10/11/2017 (Beni-Suef University, Hurghada).
Academic Advisory	• Egyptian Community for the Promotion of Professor and Associate Professor Degree. • For the Physics undergraduate students, Physics Department, Faculty of Science, Minia University (2013 -present). • For the Science Club of the Faculty of Science, Minia University (2013-2017) • As an arbitrator in the Intel International Science and Engineering Fair (Intel ISEF) Egypt (2013-2023). • Children's University (Coordinator of the Energy Program).
Official License	• From the Egyptian Ministry of Health for "Using ionizing radiation" (14-5-1994). • From the Egyptian Ministry of Health in" Record in the list of qualified experts in the prevention of the risk of exposure to ionizing radiation" (24-9-2000). • From Nuclear & Radiological Regulatory Authority, Egypt as "Radiation protection expert for the prevention of exposure to radiation" 26-3-2024 to 25-3-2027.
Attended Courses	• "Computer Training" by the Scientific & Statistical Computer Research Center, Cairo University, Egypt (20/7/1985-29/8/1985). • "Use of Radioactive Materials and Protection from Radiation" by Atomic Energy Authority, Egypt (11/1/1992-5/2/1992). • "International Course and Symposium on Glass Science and Engineering" by The American University in Cairo, Egypt (12/10/1992-22/10/1992) • "Pedagogy" by Education Center humanitarian and Technology Education, Minia University, Egypt (7/11/1993-30/11/1993). • "Use of radioactive materials and protection from Radiation" by Atomic Energy Authority, Egypt (1/1/1994-5/1/1994).

	• “Electromagnetic radiation-produce, effect, uses” by Atomic Energy Authority, Egypt (13/5/2000 to 14/5/2000). • “Develop the Skills of Youth Care” by Faculty and Leadership Development Project, Minia University, Egypt (28/12/2004-29/12/2004). • “Development of Effective Presentation Skills” by Faculty and Leadership Development Project, Minia University, Egypt (15/1/2005-17/1/2005). • “Development of Effective Communication Skills” by Faculty and Leadership Development Project, Minia University, Egypt (29/1/2005-31/1/2005). • “Decision-making and Problem-solving” by Faculty and Leadership Development Project, Minia University, Egypt (16/5/2005-19/5/2005). • “Recent Trends in Teaching” by Faculty and Leadership Development Project, Minia University, Egypt (20/5/2005-23/5/2005). • “Standards of Quality in the Teaching Process” by Faculty and Leadership Development Project, Minia University, Egypt (15/7/2008-17/7/2008). • “Submit and Correct Scientific and Practical Report for Students electronically”, Continuous Education Center, University of Fallujah, Iraq (12-7-2020). • “Personal Protective Equipments”, by United Nation Global Marketplace, The International Organization for the Protection of Human Rights Ukraino-Irak, E-Learning Unit (14-7-2020). • “Nanotechnology techniques and applications – 2” by Association of Materials Science and Engineering and Nanotechnology - Iraq Branch, on the platform of the University of Karkh Sciences, Academic Staff Platform (ASP) (14-23/7/2020). • “Activated carbon – Processes and applications in environmental treatment” by Association of Materials Science and Engineering and Nanotechnology - Iraq Branch, on the platform of the University of Karkh Sciences, Academic Staff Platform (ASP) (29/7/2020). • “Advanced Science Research Week” by Arabic Researcher ID (ARID), successfully completed 35 hours of training courses (24-30/7/2020). • “Nanotechnology techniques and applications in oil industry – 3”
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	by Association of Materials Science and Engineering and Nanotechnology - Iraq Branch, on the platform of the University of Karkh Sciences, Academic Staff Platform (ASP) (30/7/2020-3/8/2020). • “Hazard analysis and critical control point (HACCP)” by Association of Materials Science and Engineering and Nanotechnology - Iraq Branch, on the platform of the University of Karkh Sciences, Academic Staff Platform (ASP) (4-6/8/2020). • “Scientific writing and international publication” by Association of Materials Science and Engineering and Nanotechnology - Iraq Branch, on the platform of the University of Karkh Sciences, Academic Staff Platform (ASP) (8-10/8/2020). • “The open program - Entrepreneurship and Scientific Creativity / Intellectual Property” by Association of Materials Science and Engineering and Nanotechnology - Iraq Branch, on the platform of the University of Karkh Sciences, Academic Staff Platform (ASP) (12-13/8/2020). • “Nanotechnology techniques and applications – 4” by Association of Materials Science and Engineering and Nanotechnology - Iraq Branch, on the platform of the University of Karkh Sciences, Academic Staff Platform (ASP) (20-25/8/2020). • “The open program - entrepreneurship and scientific creativity / small and medium enterprises, business and technology incubators” by Association of Materials Science and Engineering and Nanotechnology - Iraq Branch, on the platform of the University of Karkh Sciences, Academic Staff Platform (ASP) (23-29/8/2020). • “AUU Faculty Online Teaching Modular Training” by Association of African Universities (AUU) (28/8/2020). • “Air pollutants and climate change” by Association of Materials Science and Engineering and Nanotechnology - Iraq Branch, on the platform of the University of Karkh Sciences, Academic Staff Platform (ASP) (6-9/9/2020). • “Applications in modern technologies” by Association of Materials Science and Engineering and Nanotechnology - Iraq Branch, on the platform of the University of Karkh Sciences, Academic Staff Platform (ASP) (13-16/9/2020). • “Sustainable development and environmental agreements” by Association of Materials Science and Engineering and Nanotechnology - Iraq Branch, on the platform of the University
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	of Karkh Sciences, Academic Staff Platform (ASP) (17/9/2020). • “In the electronic lecture: Features of the global struggle on gas” by Association of Materials Science and Engineering and Nanotechnology - Iraq Branch, on the platform of the University of Karkh Sciences, Academic Staff Platform (ASP) (18/9/2020). • “The open program: entrepreneurship and scientific creativity/job opportunities in small and medium enterprises” by Association of Materials Science and Engineering and Nanotechnology - Iraq Branch, on the platform of the University of Karkh Sciences, Academic Staff Platform (ASP) (20-23/9/2020). • “Global Institute of Planning and Sustainable Development”, the training mini-course is fully funded and presented by the Association of African Universities (AAU) (12-13/11/2020). • The training program “Foundational Teaching Excellence in Physics Education” by Egyptian Knowledge Bank, Knowledge E, Academy of Science Research & Technology, and IOP Publishing (from March 2022 to October 2022).
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IV. HONORS: (Names and dates of professional honors, awards, fellowships and scholarships)

Names	Dates
Egyptian scholarship for two years in University of Tokyo, Japan	From 29/11/1994 to 4/12/1996
Fulbright Postdoctoral Scholarship for five months at Wayne State University, Michigan, USA	From 15/2/2002 to 14/7/2002
The Korean Federation of Science and Technology Societies (KOFST) award me a fellowship under the Brain Pool Program, Korean Atomic Energy Research Institute, Daejeon, Republic of Korea.	From 1/1/2006 to 31/12/2006
Arab Fund for Economic and Social Development scholarship for one year in the National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan	From 1/1/2007 to 31/12/2007
Visiting researcher in Fuel Cell Cutting-Edge Center (FC-Cubic), Technology Research Association, 2-3-26 Aomi, Koto-Ku, Tokyo 135-0064, Japan.	From 1/1/2008 to 31/3/2013

Award of the International Publication for Science Papers from Minia University, Minia, Egypt for the year of 2013.	17/3/2014
Award of the International Publication for Science Papers from Minia University, Minia, Egypt for the year of 2014.	4/5/2015
Award of the International Publication for Science Papers from Minia University, Minia, Egypt for the year of 2017.	8/5/2018
Award of the International Publication for Science Papers from Minia University, Minia, Egypt for the year of 2018.	18/6/2019
Award of the International Publication for Science Papers from Minia University, Minia, Egypt for the year of 2019.	25/8/2020
Award of the International Publication for Science Papers from Minia University, Minia, Egypt for the year of 2020.	18/9/2021
Award of the International Publication for Science Papers from Minia University, Minia, Egypt for the year of 2021.	10/9/2022
Award of the International Publication for Science Papers from Minia University, Minia, Egypt for the year of 2022.	1/10/2023

V. COURSES TAUGHT

Undergraduate Courses

I have taught the following Courses: General Physics (Heat, properties of matter, waves, electricity, alternating electricity), Electronic, Nuclear Physics, Radiation Physics, Atomic Physics, Atomic, Cosmic rays, and Molecular Spectra.

Graduate Courses

I have taught the following Courses: Nuclear Physics, Radiation Physics, Applied Nuclear Physics, Reactor Physics, and Nuclear Techniques for Studying Materials Science. In addition, I have also taught Advanced fuel cells, Advanced Energy and Environment, Semiconductor Converters, and Advanced Polymer membranes for Diploma and Pre-mister students.

VI. PROJECTS:

- 1) I was a co-investigator in the project funded by the Higher Education Enhancement Project Fund (HEEPE) 2005 which is in title, **“Enhancing Modeling and Simulation Technology in Training and Education of Physics at the Minia**

University”.

- 2) I am a co-investigator in the project funded by Science & Technology Development Fund (STDF) under ID. 15113 from the year 2015 which is in title, **“Development of Electrodes using Carbon Nano-fibers for Fuel Cell “**
- 3) I am a co-investigator in the project funding by Beni-Suef University **“Design, Implementation and Performance of 5 kW Rooftop Grid Connected PV System: Faculty of Postgraduates for Advanced Science: as a Case Study”**.
- 4) I am a supervisor in the project funded by the Academy of Scientific Research and Technology, Egypt for undergraduate students in 2017 which is in title **”Synthesis and Characterization of Nano catalyst Materials for Fuel Cell Applications”**.
- 5) I am a co-investigator in the project funding by funded by the Academy of Scientific Research and Technology, Scientists Egypt in 2019, Beni-Suef University which is in title **“Nanotechnological Approach for the Implementation of Fuel Cell for Renewable Energy Production by using Plastic Wastes”**.
- 6) I am an investigator in the project funding by funded by the Academy of Scientific Research and Technology, Science Up, under ID. 6581 from the year 2020, which is in title **“Fabrication and characterization of low-cost nanomembranes for polymer electrolyte membrane fuel cells”**.
- 7) I am a co-investigator in the project funded by the Academy of Scientific Research and Technology, Science Up, under ID. 6432 from the year 2020 which is in title **“Synthesis and Characterization of Low Cost Organic-inorganic Hybrid Membranes for Fuel Cells”**.
- 8) I am a supervisor in the project funded by the Academy of Scientific Research and Technology, Egypt for undergraduate students 2021, which is in title **“Fabrication and Characterization of Electrospun Low-Cost Membranes for Fuel Cell Applications”**.
- 9) I am a supervisor in the project funded by the Academy of Scientific Research and Technology, Egypt for undergraduate students in 2022, which is in title **“Development of Low Cost Layered Double Hydroxide for Water Purification**

and Energy Applications”.

- 10) I am a co-supervisor in the project funded by the Science & Technology Development Fund (STDF), Egypt, for the Post graduate studies MSc in 2024, which is in title “**Synthesis and characterization of membrane electrode assembly for fuel cell applications.**”

VII. RESEARCH EXPERIENCE:

- Study Polymer Electrolyte Membranes for fuel cells as bulk and thin films using many techniques such as slow positron beam spectroscopy, wide angle x-ray, X-ray photoelectron spectroscopy, water uptake, proton conductivity, contact angle, Fourier transform infrared spectroscopy and so on. I worked for this subject for more than 6 years in the biggest center in Japan, Fuel Cell Cutting-Edge Center (FC-Cubic), Tokyo and I continue this subject in my Minia University lab.
- Investigating Materials using Nuclear Technique (Positron Annihilation Lifetime and Coincidence Doppler Broadened of Annihilation Radiation Techniques) and Positron-molecule experiments (Positronium formation cross section in gas).
- Professional in experimental nuclear physics (coincidence spectrometer & Gamma, Beta, and Alpha Spectrometers).

VIII. SUPERVISING EXPERIENCES:

Eleven MSc. Students and five PhD. students.

IX. CONFERENCES:

I. INTERNATIONAL CONFERENCES

1. 4th Symposium of Research Center for Nuclear Science and Technology, Dec. 4-5, 1995 (the University of Tokyo, Tokyo, Japan).
2. 5th Int. Workshop on Positron and Positronium Chemistry (PPC-5), June 9-14, 1996 (Lillafüred, Hungary, Egypt).
3. 33rd Annual Meeting on Radioisotopes in Physical Science and Industries, July 1-3, 1996 (Tokyo, Japan).
4. 39th Japan Radiation Chemistry Symposium, Oct. 15-17, 1996 (Tsukuba, Japan).

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5. 40th Japan Nuclear Chemistry Symposium, Oct. 22-24, 1996 (Wako, Japan).
 6. Short Workshop in Solid State Physics, Dec. 2-3, 1996 (the University of Tokyo, Tokyo, Japan).
 8. 11th Int. Conference on Positron Annihilation (ICPA-11), May 25-30, 1997 (Kansas City, Missouri, USA).
 9. 6th Int. Workshop on Positron and Positronium Chemistry (PPC-6), June 7-11, 1999 (Tsukuba, Japan).
 10. 12th Int. Conference on Positron Annihilation (ICPA-12), August 6-12, 2000 (München, Germany).
 11. Meeting of the Division of Atomic, Molecular, and Optical Physics (DAMOP 2002), May 28 – June 1, 2002 (Williamsburg, Virginia, USA).
 12. 7th Int. Workshop on Positron and Positronium Chemistry (PPC-7), July 7-12, 2002 (Knoxville, Tennessee, USA).
 13. 13th Int. Conference on Positron Annihilation (ICPA-13), September 7-13, 2003 (Kyoto, Japan).
 14. 7th Arab International Conference of Polymer Science & Technology and the 3rd Arab Conference of Materials Science, Oct. 5-9, 2003 (Cairo-Hurghada, Egypt).
 15. 8th Int. Workshop on Positron and Positronium Chemistry (PPC-8), September 4-9, 2005 (Coimbra, Portugal).
 16. 8th Arab International Conference of Polymer Science & Technology, Nov. 27-30, 2005 (Cairo-Sharm El-Shiekh, Egypt).
 17. International Symposium on Industrial Safety, April 14, 2006 (Chungbuk National University, Chungbuk, South Korea).
 18. 50th Japan Radiation Chemistry Symposium, Oct. 10-12, 2007 (Kyoto, Japan).
 19. International Symposium on Charged Particle and Photon Interactions with Matter, Nov. 6-9, 2007 (Tokai, Japan).
 20. Specialist Meeting on Positron Science and its Application to Science and Engineering, Nov. 16-17, 2007 (Osaka, Japan).
 21. 9th Int. Workshop on Positron and Positronium Chemistry (PPC-9), May 11-15, 2008 (Wuhan, China).
 22. The 2nd Asia Pacific Symposium on Radiation Chemistry (APSRC-2008), August 29-September 1, 2008 (Waseda University, Tokyo, Japan).

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23. 51st Japan Radiation Chemistry Symposium, Oct. 15-17, 2008 (Tsukuba, Japan).
 24. Specialist Meeting on Positron Science and its Application to Science and Engineering, Dec. 5-6, 2008 (Osaka, Japan).
 25. 15th Int. Conference on Positron Annihilation (ICPA-15), Jan. 18-23, 2009 (Kolkata, India).
 26. 58th SPSJ Symposium on Macromolecules, September 16 -18, 2009 (Kumamoto, Japan).
 27. 52nd Japan Radiation Chemistry Symposium, September 24-26, 2009 (Fukui, Japan).
 28. Advanced Science Research Symposium 2009 (ASR2009), November 10-12, 2009 (Tokai, Japan).
 29. 11th Pacific Polymer Conference (PPC11), December 6 -10, 2009 (Cairns, Australia).
 30. 59th SPSJ Annual Meeting, May 26 - 28, 2010 (Yokohama, Japan).
 31. 47th Annual Meeting on Radioisotope and Radiation Research, July 7 - 9, 2010 (Odaiba, Japan).
 32. 53rd Japan Radiation Chemistry Symposium, September 21-23, 2010 (Nagoya, Japan).
 33. 59th SPSJ Symposium on Macromolecules, September 15-17, 2010 (Hokkaido University, Sapporo, Japan).
 34. Specialist Meeting on Positron Science and its Application to Science and Engineering, November 26-27, 2010 (Osaka, Japan).
 35. 60th SPSJ Annual Meeting, May 25 - 27, 2011 (Osaka, Japan).
 36. 48th Annual Meeting on Radioisotope and Radiation Research, July 6-8, 2011 (Odaiba, Japan).
 37. 10th Int. Workshop on Positron and Positronium Chemistry (PPC-10), September 5-9, 2011 (Smolenice Castle, Slovak Republic).
 38. 60th SPSJ Symposium on Macromolecules, September 28-30, 2011 (Okayama, Japan).
 39. Specialist Meeting on Positron Science and its Application to Science and Engineering, December 2-3, 2011 (Osaka, Japan).
 40. The 15th International Symposium, on Batteries, Fuel Cells and Capacitors, October 17-20, 2011 (Tokyo, Japan).
 41. 61st SPSJ Annual Meeting, May 29-31, 2012 (Yokohama, Japan).
 42. 49th Annual Meeting on Radioisotope and Radiation Research, July 9-11, 2012 (Tokyo, Japan).
 43. 61st SPSJ Symposium on Macromolecules, September 19-21, 2012 (Nagoya, Japan).
 44. 55th Japan Radiation Chemistry Symposium, September 26-28, 2012 (Sandi, Japan).

45. 1st China-Japan Joint Workshop on Positron Annihilation, October 16-18, 2012 (Wuhan University, China).
46. The 16th International Symposium, on Batteries, Fuel Cells and Capacitors, November 14-16, 2012 (Fukuoka, Japan).
47. 2nd International Conference on Advanced Basic & Applied Sciences (ABAS II), April 2-4, 2014 (Sokhna, Egypt).
48. The 5th Asian Pacific Symposium on Radiation Chemistry (APSRC 2014), September 8-11, 2014 (Tokyo, Japan).
49. The 11th Int. Workshop on Positron and Positronium Chemistry (PPC-11), November 9-14, 2014 (Cidade de Goa, Goa, India).
50. 3rd International Conference on Advanced Basic & Applied Sciences (ABAS III), Nov. 17-20, 2015 (Hurghada, Egypt).
51. The 1st International Conference of Environmental Security and Global Climate Change (ESGCC-1) April 10-12, 2016 (Beni-Suef University, Egypt).
52. The Annual Meeting of the International Nuclear Security Education Network, August 22-26, 2016 (International Atomic Energy Agency, IAEA's Headquarters, Vienna, Austria).
53. Italian-Egyptian Workshop on Energy & Related Materials, Oct. 17-19, 2016 (Pyramisa Hotel, Dokki, Egypt).
54. The 1st International Conference on Natural Resources and Renewable Energy (ICRRE-1), April 17-20, 2017 (Hurghada, Egypt).
55. The Annual Meeting of the International Nuclear Security Education Network, July 24-28, 2017 (International Atomic Energy Agency, IAEA's Headquarters, Vienna, Austria).
56. The 12th Int. Workshop on Positron and Positronium Chemistry (PPC-12), August 28-September 1, 2017 (Lublin, Poland).
57. The Fourth International Conference on Advanced Sciences (ICAS4), Nov. 7-10, 2017 (Hurghada, Egypt).
58. The Annual Meeting of the International Nuclear Security Education Network, July 9-13, 2018 (International Atomic Energy Agency, IAEA's Headquarters, Vienna, Austria).
59. The First International Conference on Particles, Materials and Energy: Advanced Medical and Industrial Applications (FICPME-2018), Dec. 2-6, 2018 (Luxor, Egypt).
60. The Fifth International Conference on Advanced Sciences (ICAS5), Nov. 9-12, 2019 (Hurghada, Egypt).

61. The Fourth International Science Symposium entitled “The importance of Teaching Management Skills in Engineering Disciplines”, Organized by the International Academy of Leadership and Development (IALD) with Northern Technical University, Iraq. That was held online on the ZOOM platform on July 12, 2020 (Online).
62. International Conference on Distance Education: Challenges and Opportunities, Integrated Thebes Academy for Science & Technology, July 25-27, 2020 (Online).
63. The 34th Egyptian Material Research Society International Conference”, In Association with the Nanotechnology Research Center, Aug. 29-30, 2020 (Online).
64. Meeting on Electrochemical Energy Conversion and Storage Devices (ECHEMCONSTORE I), Universidad Carlos iii Madrid Leganes, Spain (2021).
65. 9th Environmental Physics Conference (EPC”216), March 26-29, 2021 (Aswan-Luxor, Egypt).
66. The Annual Meeting of the International Nuclear Security Education Network, (International Atomic Energy Agency, IAEA’s Headquarters, Vienna, Austria), which was held online at the Cisco Webex platform, August 16-20, 2021.
67. The 12.5th Int. Workshop on Positron and Positronium Chemistry (PPC-12.5), which was held online at the Big Blue Button platform, August 30 - September 3, 2021.
68. The 5th International Conference on New Horizons in Basic and Applied Sciences (ICNHBAS2021), Sep. 26-29, 2021 (Hurghada, Egypt).
69. The Annual Meeting of the International Nuclear Security Education Network, July 18-22, 2022 (International Atomic Energy Agency, IAEA’s Headquarters, Vienna, Austria).
70. 19th Int. Conference on Positron Annihilation (ICPA-19), August 22-26, 2022 (University of Helsinki, Finland, online).
71. The Annual Meeting of the International Nuclear Security Education Network, July 17-21, 2023 (International Atomic Energy Agency, IAEA’s Headquarters, Vienna, Austria).

II. INTERNAL CONFERENCES

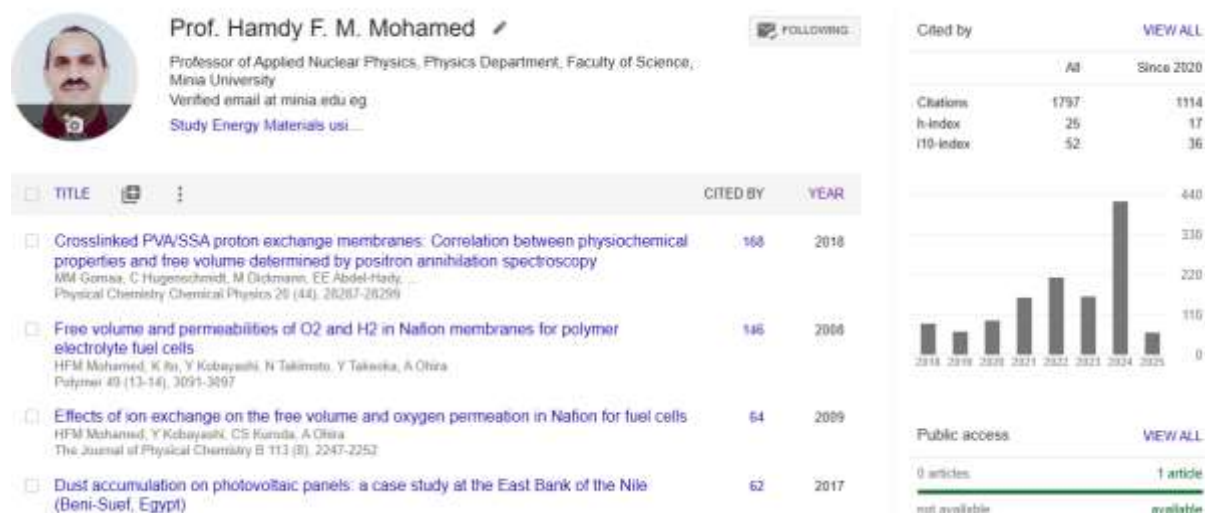
1. 1st Radiation Physics Conference, Nov. 15-19, 1992 (Qena).
2. 5th Conference on Nuclear Science and Application, Nov. 28 – Dec. 2, 1992 (Cairo).
3. 16th Conference on Solid State Science, Jan. 9-14, 1993 (Minia).
4. 1st Conference on Nuclear and Particle Physics Nov. 15-19, 1997 (Cairo).

5. 4th Radiation Physics Conference, Nov. 15-19, 1998 (Alexandria).
6. 2nd Conference on Nuclear and Particle Physics Nov. 13-17, 1999 (Cairo).
7. 5th Radiation Physics Conference, Nov. 5-9, 2000 (Cairo).
8. 3rd Conference on Nuclear and Particle Physics Oct. 20-24, 2001 (Cairo).
9. 6th Radiation Physics Conference, Oct. 27-30, 2002 (Assiut).
10. 4th Conference on Nuclear and Particle Physics Oct. 11-15, 2003 (Fayoum).
11. 1st Environmental Physics Conference, Feb. 24-28, 2004 (Minia).
12. 7th Radiation Physics Conference, Nov. 29-30, 2004 (Ismailia, Suez Canal).
13. The XXV Conference on Solid State Physics and Materials Science & Workshop on Photonic Materials and Optoelectronic Devices (II), March 6-10, 2005 (Luxor).
14. 7th Environmental Physics Conference (EPC'16), Sep. 24-27, 2016 (Sharm el-Sheikh).
15. 10th Conference on Nuclear and Particle Physics, Oct. 7-10, 2017 (Hurghada).
16. The First National Conference of the Children's University, Jan. 27-28, 2019, (Cairo).

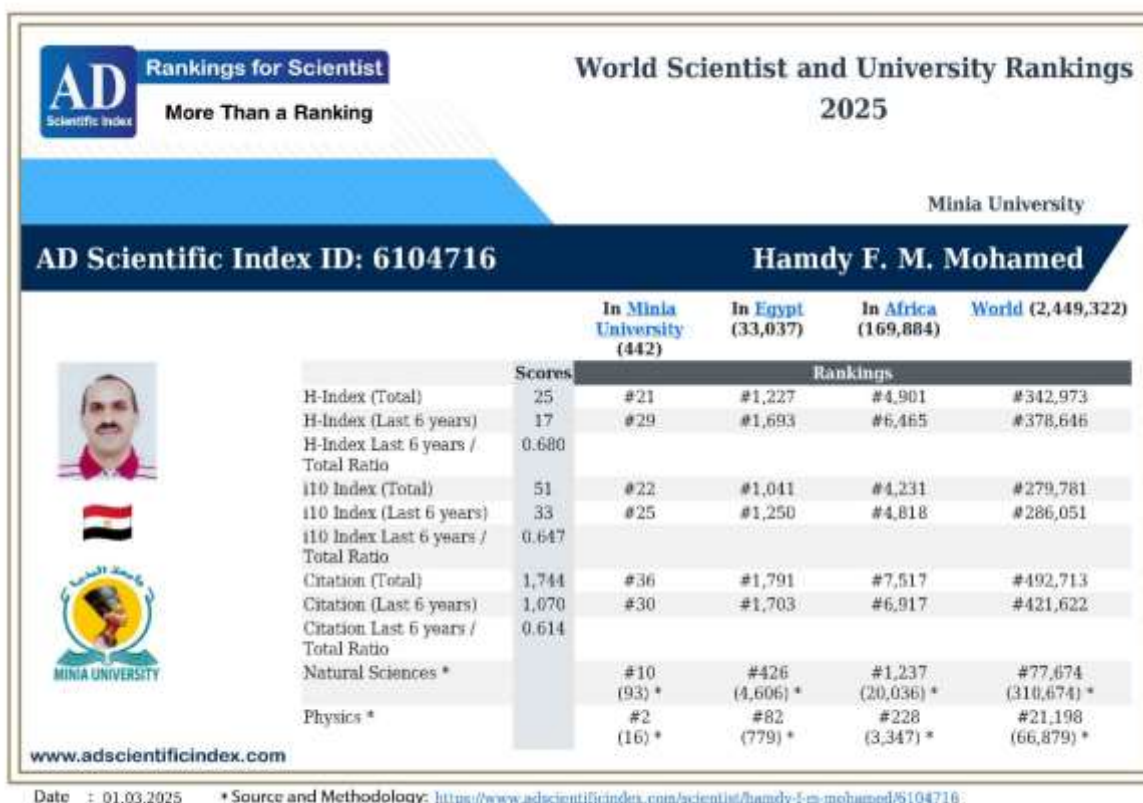
X. CITATION and h-index

Citation: 1797

h-index: 25



XI. World Scientist and University Rankings



XII. LIST OF INVITED TALKS AND PUBLICATIONS:

A. Invited Talk:

1. "Positron Annihilation Spectroscopy in Materials Structure Studies", International Symposium on Industrial Safety, April 14, 2006 (Chungbuk National University, Chungbuk, Republic of Korea).
2. "Positron Annihilation Study of Polymer Membranes for Polymer Electrolyte Fuel Cells", Korean Atomic Energy Research Institute, November 14, 2007 (Daejeon, Republic of Korea).
3. Positron annihilation study of Nafion membrane for fuel cells", presented in the Specialist Meeting on Positron Science and its Application to Science and Engineering, Nov. 16-17, 2007 (Osaka, Japan).

4. “Positron Annihilation Study of Ion-exchanged Nafion® Membrane for Fuel Cells”, Specialist Meeting on Positron Science and its Application to Science and Engineering, Dec. 5-6, 2008 (Osaka, Japan).
5. “Positron annihilation study of ion-exchanged forms of Nafion® membrane”, 15th Int. Conference on Positron Annihilation (ICPA-15), Jan. 18-23, 2009 (Kolkata, India).
6. “Free Volume and Oxygen Permeability in Polymers Related to Polymer Electrolyte Full Cells”, 9th Int. Workshop on Positron and Positronium Chemistry (PPC-9), May 11-15, 2008 (Wuhan, China).
7. “Application of Positron Annihilation to the Characterization of Polymer Electrolyte Membranes for Fuel Cell”, Korean Atomic Energy Research Institute, September 28, 2010 (Daejeon, Republic of Korea).
8. “Free volume of thin films of Nafion for fuel cells obtained from energy variable slow positron annihilation spectroscopy”, Specialist Meeting on Positron Science and its Application to Science and Engineering, November 26-27, 2010 (Osaka, Japan).
9. “Positron annihilation spectroscopy study of nanostructure in Nafion® thin films” presented in the 1st China-Japan Joint Workshop on Positron Science, October 16-18, 2012 (Wuhan University, Wuhan, China).
10. “Nuclear safety and awareness of means and methods of safety from various radiations in the environment and life”, Faculty of Science, Minia University, Jan. 1, 2024 (Minia, Egypt).

B. Book Chapters:

1. Rehab Mahmoud, E. E. Abdel-Hady, **Hamdy F. M. Mohamed**, Mohamed Ibrahim, Gehad Abd El-Fatah, Amal Zaher, Yasser Gadelhak, “Nanomaterials for electrochemical sensing of heavy metals in wastewater streams”, Chapter 35, in “Handbook of Nanosensors: Materials and Technological Applications”, G. A. M. Ali, K. F. Chong, A. S. H. Makhlof (Eds.), Springer Nature Switzerland AG 2024, pp. 1219-1242 (ISBN10: 3031471792 & ISBN13: 9783031471797).

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2. Isra H. Ali, Hany Abd El-Raheem, Ahmed F. A. Youssef, Ahmed Farghali, Sarah H. M. Hafez, Amal Zaher, **Hamdy F. M. Mohamed**, E. E. Abdel-Hady, Maha B. Abd Elhaleem, Rehab Mahmoud, "Nanofibers for Medical and Healthcare Applications", Chapter 11 in "Technical Organic and Inorganic Fibres from Natural Resources", I. H. Mondal (Ed.) Elsevier, UK, 2025, pp. 313-352 (Paperback ISBN: 9780443154591 & eBook ISBN: 9780443154607).

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