

CURRICULUM VITAE

PERSONAL DATA

Name	Lutfi Mohammed Abd Algadir Mahmoud
Nationality	Sudanese.
Position	Assistant professor
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EDUCATION

Year	Academic Degree	Institution
2011	Ph.D. Physics	Alzaiem Alazhari University
2006	M.Sc. Physics	Sudan University of Science and Technology
2000	B.Sc. Physics	Sudan University of Science and Technology

WORK EXPERIENCE

Period	Position	Address
2023 – recent	Assistant Professor of Physics	Department of Physics, College of Science, Imam Mohammad Ibn Saud Islamic University (IMSIU), Saudi Arabia.
2012 – 2023	Assistant Professor of Physics	Department of Physics, College of Science and Humanities at Hurrymilla, Shaqra University, Saudi Arabia.
2011 – 2012	Assistant Professor of Physics	Department of Physics, College of Education, Alzaiem Alazhari University, Sudan.
2006 – 2011	A lecturer of Physics	Department of Physics, College of Education, Alzaiem Alazhari University, Sudan.
2001 - 2006	Teaching Assistant	Department of Physics, College of Education, Alzaiem Alazhari University.

RESEARCH INTERESTS



Theoretical Physics, Mathematical Physics.

PUBLICATIONS

- HassabAlla MA Mahmoud, S Khan, [L.M. Abdalgadir](#), Anisotropic stellar fluids with zero complexity factor in torsion-inspired gravity, Physics of the Dark Universe, Volume 49, September 2025, 101974.
- Fadwa Alshaeer, Mohammed Zorah, HassabAlla MA Mahmoud, [L. M. Abdalgadir](#), et al, Bandgap-engineered MXene-g-C3N4 interfacial layer for enhanced charge carrier dynamics in perovskite solar cells, Journal of Alloys and Compounds, Volume 1011, 15 January 2025, 178247.
- Asma M. Elhussien HassabAlla M. A. Mahmoud, Elharam A. E. Mohammed, L. M. Abdalgadir, Faten A. M. Abd Elaziz, Faiz M. B. Elshafia, The Behavior of Nanoelectronics Chip Acting as a Nano Inductor and Capacitor for Laser Beam Using Klein Gordon Equation, Journal of Electric System, Volume 20, 5006-5012.
- [L.M. Abdalgadir](#), HassabAlla M. A. Mahmoud, Lasing conditions for Polarized Medium and a free Electron Lasing Using Maxwell's Equations, Optik - International Journal for Light and Electron Optics 272(Issue 4):170327, February 2023.
- HassabAlla M.A. Mahmoud, Muhanad Elfadil Mohamed, [L.M. Abdalgadir](#), Effective non-singular quantum thin films electronic components coefficient based on relativistic energy to explain nano tube behavior, Optik - International Journal for Light and Electron Optics 269(1):169844, November 2022.
- HassabAlla M.A. Mahmoud, [L.M. Abdalgadir](#), Nano Quantum Computing thin films electronic components to act as rectifier and amplifier in simulation theory, Optik - International Journal for Light and Electron Optics 269(1):169843, November 2022.
- Elharam Ali Eltahir Mohammeda, HassabAlla M.A. Mahmoud, [L.M. Abdalgadir](#), Mariam Abdalla Alshekh, H.S. Bush, Material properties for absorption, lasing, micro capacitors and inductors using Maxwell's equations, Materials Today: Proceedings, Volume 65, Part 5, 2022, Pages 2515-2519.