Physics Department

Anla Fet Hardi, S.Si., M.Si

Position	Fundamental Physics, Experiment Fundamental Physics, Renewable Energy, Experimental Optic, Experimental wave (Bachelor Degree of Physics Study Programme),

Academic Career	**Magister Course**: Universitas Andalas (UNAND), Indonesia-Physics Department (2014-2020) **Bachelor Course**:Universitas Andalas (UNAND), Indonesia-Physics Department (2021-2023)
Employment	Expert Assistant of Physics Dept., FMIPA, USK (2024 – present)
Research and development projects (last 5 years)	1. Degree's Thesis Research - The effect of Al doping on ZnO layers on the efficiency of dye-sensitized solar cells (DSSC)/2020 2. Master's Thesis Research - Improving the efficiency of MAPbI3 perovskite solar cells (PSC) by adding PHENETHYLAMMONIUM IODIDE (PEAI)/2023
Collaborations (last 5 years)	Development of high-efficiency MAPbI3-based perovskite solar cells/Institute of Microengineering and nanoeelectronics, Universiti Kebangsaan Malaysia (2022-2023)
Patents and proprietary rights	-
Selective Publications (last 5 years)	1. Amrulloh, Y., Syukri, S., Emriadi, E., Hardi, A. F., & Arief, S. (2025, April). Uncaria gambir Roxb Leaf Extract Mediated Hydrothermal Synthesis of Magnetite Nanoparticles. In *Proceeding International Conference on Religion, Science and Education* (Vol. 4, pp. 1355-1358). 2. Anla, A.F.H. *et al.* (2023) 'Particle Size Improvement and Layer Absorption of Metil Halida MAPbI3 Perovskite Doping Phenethylammonium Iodide (PEAI)', *Jurnal Ilmu Fisika | Universitas Andalas*, 16(1), pp. 13–21. Available at: https://doi.org/10.25077/jif.16.1.13-21.2024. 3. Dahlan, D. *et al.* (2023) 'Improving the optoelectrical properties of humid stable, hexamined perovskite lattice by phenetylammonium cation additive', *Optical Materials*, 145. A 4. Fet Hardi, Anla, and Erin Ficrah Huda. "Organic solar cells: materials design, technology and commercialization: edited by Liming Ding, Weinheim, Wiley, 2022, 720 pp., $156.00 (hardback), ISBN 978-3-527-83366-5. Scope: textbook. Level: advanced undergraduate, postgraduate, researcher, scientist, engineer." (2022): 331-332. 5. Hardi, A.F. and Dahlan, D. (2020) 'Pengaruh Doping Al Pada ZnO Menggunakan Metode LPD Terhadap Efisiensi Dye Sensitized Solar Cells (DSSC)', *Jurnal Fisika Unand*, 9(3), pp. 360–367.
Membership	members of the Indonesian Society of Scientists and Technologists, student cluster