



Position Material science, Material Characterization, Semiconductor, Thermodynamic (Bachelor Degree of Physics Study Programme)

Academic Career	Magister Course: Institut Teknologi Bandung (ITB), Indonesia- Physics Department (1997-1999) Bachelor Course: Institut Teknologi Sepuluh Nopember (ITS), Indonesia - Physics Department (1987- 1993)
Employment	Assistant Professor of Physics Dept., FMIPA, USK (1993 – present), Head of Material and energy laboratory at Physics Dept., FMIPA, USK (2024- present)
Research and development projects (last 5 years)	<ol style="list-style-type: none"> 1. Karakterisasi Lapisan Paleotsunami Aceh dengan Laser Induced Breakdown Spectroscopy (LIBS) (2021) 2. Pengembangan Nano-Silika (SiO₂) dari Batu Giok Aceh untuk Bahan Baku Baterai Sekunder Berbasis Magnesium (2016)
Collaborations (last 5 years)	<ol style="list-style-type: none"> 1. Kalibrasi Alat Ukur, Timbangan Dan Alat Takar. Internship program Metrologi Legal Kota Banda Aceh, 2025 2. Analisis Korosi Pada Alat Local Control Panel di Unit 72: Identifikasi, Pencegahan, dan Solusi. Intensif program PT. Perta Arun Gas, Lhok Seumawe. Aceh 2025
Patents and proprietary rights	<ol style="list-style-type: none"> 1. Adi Rahwanto, Fauzi, Zulkarnain (2011). <i>Preparasi Serbuk Nanokristal MgH₂ melalui Teknik Mechanical Alloying</i>. Menteri Hukum dan Hak Asasi Manusia. No. Paten P00200900765. Tanggal Pemberian 7 Juli 2011 2. Zulkarnain, Adi Rahwanto, Fauzi (2016). <i>Metode Preparasi Serbuk Nano-Magnetite dari Pasir Besi Pantai untuk Katalis Material Penyimpan Hidrogen Sistem MgH₂</i>. Menteri Hukum dan Hak Asasi Manusia No. Paten P00201507725. Tanggal Pemberian 16 Desember 2016
Selective Publications (last 5 years)	<ol style="list-style-type: none"> 1. Ismail Ismail, Zakiul Fuady, Fauzi Fauzi, Zulfian Zulfian (2025). <i>Acoustic properties of gypsum-palm panel and foam concrete-palm panel</i>. Journal of Aceh Physics Society 14 (1), 1-8, 2025 2. K Lahna, R Mitaphonna, M Ramli, F Isbah, E Yusibani, F Fauzi (2024). <i>Identification ratio of Si/Ti and Ca/Ti content by X-Ray Fluorescence in tsunami soil samples</i>, Jurnal Natural 24 (1), 35-42, 2024 3. I Irhamni, E Juliana, Z Zulfalina, F Fauzi, Z Jalil (2024). <i>Utilization of oyster shell waste (crassostrea gigas) as a source of calcium in hydroxyapatite synthesis</i>. Jurnal Geuthèè: 7 (2), 96-104, 2024 4. AV Prasetyo, MM Sukman, A Vahreza, R Mitaphonna, Fauzi, Rajibussalim (2023). <i>Investigation of possible Paleo tsunami deposit in Seubadeh Village in the Southern part of Aceh</i>. AIP Conference Proceedings 2858 (1), 050002, 2023 5. Z Husen, Z Albarra, K Suhud, F Fauzi, E Yusibani, I Irhamni (2023). <i>Realtime instrumentation system towards blood oxygen saturation level monitoring with Liquid Crystal Display (LCD) and smartphone</i>. Journal of Aceh Physics Society 12 (2), 8-11, 2023 6. Malahayati, Syarifah Fathmiyah, Irhamni, Fauzi (2022). <i>Pengaruh Waktu Milling Terhadap Sifat Magnetik Pasir Besi Pantai Lampanah Aceh Besar</i>. Hadron Jurnal Fisika dan Terapan 4 (01), 31-36. 2022. 7. I Irhamni, I Salsabila, F Fauzi, Z Zulfalina, Z Jalil (2021). <i>Study of hydroxyapatite based on Aceh's bovine bone coating on 314L stainless steel as a candidate for coating dental implant materials</i>. Journal of Syiah Kuala Dentistry Society 6 (1), 6-11, 2021 8. Z Zakaria, F Fauzi, I Irhamni, E Iswardy (2021). <i>Rancang Bangun Sistem Pengontrolan Lampu Berbasis Komputer Dan Arduino Untuk Aplikasi Smart Home</i>. Jurnal Komputer, Informasi Teknologi, Dan Elektro 6 (1), 2021 9. Y Yuliani, K Suhud, D Satria, L Lelifajri, B Ginting, Y Aisyah, F Fauzi (2021), <i>Instrumentation of realtime monitoring system towards level of C₆H₁₂O₆, C₂H₅OH, CO₂, temperature in tapai fermentation process</i>. Journal of Aceh Physics Society 10 (3), 60-65, 2021 10. Nurmalita, Zuraini, Evi Yufita, dan Fauzi (2015) Synthesis And Microstructure Properties Of (Bi,Pb)₂Sr₂Ca₁Cu₂O_y Ceramic Superconductor, <i>Journal of Aceh Physics Society</i> (JAcPS), Vol. 4, 4-7.. 11. U Ulfa, S Syahreza, I Irhamni, MS Surbakti, F Fauzi (2021). <i>Aplikasi Sensor SHT-11 Sebagai Alat Pendeteksi Kadar Air pada Biji Kopi</i>. Jurnal Komputer, Informasi Teknologi, dan Elektro 6 (2), 2021 12. A Rahwanto, MN Machmud, I Irhamni, Z Zulfalina, Z Jalil (2021). <i>High purity hematite (Fe₂O₃) from beach sands for soft ferrite magnetic materials application</i>. IOP Conference Series: Earth and Environmental Science 869 (1), 012059, 2021 13. F Fauzi, Z Zulfalina (2020). <i>The Enhancement and Study of Sintering Time Effect Toward Content of Fe and Ti Compounds in Mineral Sand</i>. Journal of Aceh Physics Society 9 (2), 55-58, 2020 14. Nurmalita, Nailul Amani, dan Fauzi (2013) XRD Analysis Of Bi-2212 Superconductors: Prepared By The Self-Flux Method, <i>Jurnal Natural</i>, 23(2) 1411 - 8513. 15. Zulkarnain Jalil, Adi Rahwanto, Ismail AB, Fauzi (2012) Addition of Fe₂O₃ and SiC in MgH₂ Materials for Fuel Cell Vehicle Hydrogen Storage Tank Applications, <i>Indonesian Journal of Applied Physics</i>, Vol. 2, 205, 2089 - 0133. 16. Adi Rahwanto, Mustanir Mustanir, Fauzi Fauzi, Zulkarnain Jalil (2012) Fabrication of SiC Nanocrystal Material as a Catalyst in Hydrogen Storage Materials, <i>Jurnal Sains MIPA Universitas Lampung</i>, 7: 71 - 74.
Membership	Physical Society of Indonesia (PSI) (2024/2025)
External Link	https://fisika.usk.ac.id/fauzi-s-sim-si/