



[\(SCOPUS\)](#) [\(SINTA\)](#)

<b>Name</b>	Prof. Dr. Sunaryo, M.Si
<b>Position</b>	Lecturer in Physics Education
<b>Educational Background</b>	<ol style="list-style-type: none"> <li>1. Bachelor's degree (Physics Education), IKIP Jakarta.</li> <li>2. Master's degree (Physics), UGM Yogyakarta.</li> <li>3. Doctoral degree (Environmental education), IKIP Jakarta.</li> </ol>
<b>Academic Career (Employment)</b>	Lecturer, Master of Physics Study Program, Faculty Mathematics and Natural Sciences, Jakarta State University, Jakarta 13220, Indonesia.
<b>Research and Development project over the last 5 years</b>	<ol style="list-style-type: none"> <li>1. 2021 - Sustainable Environmental Physics E-Module In The Era Of Pandemic Covid 19.</li> <li>2. 2020 - Development Of Electric Field Interaction Experiment Set For Active Learning Of Physics In High School.</li> <li>3. 2018 – Development of Multirepresentational and Contextual Based Web Based Learning for Physics Education Programs.</li> </ol>
<b>Industry collaboration/ Community Services over the last 5 year</b>	<ol style="list-style-type: none"> <li>1. 2021 - Training In The Making Of Astronomy Media For Learning At Open Schools In Ciracas Sub-District, East Jakarta.</li> <li>2. 2021 - Ppm Improvement Of The Quality Of Learning Smas Kartika Viii-1 In Kel. Srengseng Sawah Kec. Jagakarsa City Of Jakarta Selatan Through The Implementation Of Wopi (Website Of Physics Instructional).</li> <li>3. 2021 - Ppm Assistance Of State High School Teacher M.H. Thamrin Cipayung East Jakarta In Using Microsoft Teams To Optimize Learning Activities And Boarding Development In The Pandemi Period.</li> <li>4. 2021 - Training In The Making Of Astronomy Media To Observe The Changing Of Seasons In Parung Area, Bogor District, West Java Province.</li> </ol>

	<ol style="list-style-type: none"> <li>5. 2020 - Training On Making Micro Hydro For Low Power Power Plants In The Parung Area, Bogor Regency, West Java Province.</li> <li>6. 2019 - Microhydro Manufacturing Training For Low Power Power Plant In Pandeglang Area.</li> </ol>
<b>Patents and Intellectual Property Right (IPR)</b>	<ol style="list-style-type: none"> <li>1. 2020 - E-Module Global Warming.</li> </ol>
<b>Important publications over the last 5 years</b>	<ol style="list-style-type: none"> <li>1. 2022 - Structure Evolution Due To Heat Treatment Of Aluminum Nanoparticle With Different Sizes: A Molecular Dynamics Study</li> <li>2. 2022 - Influence Of Heating And Cooling Rates On Thermodynamic Properties Of Aluminum Thin Film From 300 To 1100 K</li> <li>3. 2021 - The Effect Of Voltage And Electrode Types On Hydrogen Production From The Seawater Electrolysis Process</li> <li>4. 2021 - E-Book Static Fluid And Dynamic Fluid Web-Based With A Problem-Based Learning Model To Improve Students Physics Problem-Solving Skills</li> <li>5. 2021 - The Effect Of The Use Of Harmonic Movement Phet Interactive Simulation In Online Learning Process On Mastering The Concept Of High School Students</li> <li>6. 2021 - Development Of E-Module With A Scientific Approach To Improve The Student's Critical Thinking Skills At Class XI Student High School In Optical Tools Material</li> <li>7. 2021 - The Video-Based STEM Experiment: An Observation Of The Momentum Of A Bouncing Ball</li> <li>8. 2021 - Preliminary Study On The Effect Of Time On Hydrogen Production From Electrolysis Of The Seawater</li> <li>9. 2021 - The Dynamics Of A Hockey Player Body On Passing The Ball</li> <li>10. 2021 - Investigating The Groundwater Usage For Environmental Education: Case Study At 35 High School In Jakarta</li> <li>11. 2021 - Leaf Flakes For Learning Electric Fields In Senior High School</li> <li>12. 2021 - Imposed Conditions To Make Gauge Invariance In Gross-Pitaevskii Equation With Time-Dependent Potential</li> <li>13. 2020 - Development Of Electronic Modules By Scientific Approach To Train Science Process Skills</li> <li>14. 2019 - Melting Of Gold Nanoparticle: Study On Structural Evolution</li> <li>15. 2019 - Development Of Web Based Massive Open Online Course On Fundamental Physics Subject To Increase Students' Higher Order Thinking Skill</li> <li>16. 2019 - Using Car Toys With Videos To Introduce Kinematics In Physics</li> <li>17. 2019 - Identification Of Fault Components In Diesel Engine Sounds On Train Using Neural Network</li> </ol>

	<p>18. 2019 - Unveil Of Virtual Physics Laboratory (VPL) With Battery Microscopic Simulation (BMS) To Promote Of Problem Solving Activity</p> <p>19. 2019 - Distribution Of Seismic Wave Velocity Beneath Sunda-Banda Arc Transition Zone Using Local Earthquake Tomography</p> <p>20. 2019 - Mini Photovoltaic System Project: Physics Laboratory Activities Through A Technology-Rich Learning Environment</p> <p>21. 2019 - Feasibility Of Based Augmented Reality Devices Discovery Learning On Students Learning Outcomes In Morphology Of Wijaya Kusuma Flower (<i>Epiphyllum Anguliger</i>)</p> <p>22. 2019 - Developing E-Module For Fluids Based On Problem-Based Learning (PBL) For Senior High School Students</p> <p>23. 2019 - Moment Tensor Analysis Using Regional And Temporary Deployment 2008 Data For Sumatran Active Fault Zone Earthquakes.</p>
<p><b>Activities in Professional organizational over the last 5 years</b></p>	