Mr. Issahaku Sontaa Jakalia

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RESEARCH

Interests	Physics education · Non-destructive testing · Electromagnetic Waves · Control science · Machine learning
Areas	Education · Civil and Structural Engineering · Computational Mechanics · Computer Networks and Communications · General Agricultural and Biological Sciences · Modeling and Simulation

RESEARCH SUMMARY

6	43	2	2	0.54	0%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 6 publications listed below, 2014–2025. Field-weighted impact is the mean over the 4 works scored for it; 1.00 is the world average for works of the same field, type and year. 0 of the 4 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Student 2024–present
Electrical and Information Engineering, Jiangsu University, Zhenjiang, China

Lecturer 2021–present
Department of Physics Education, University of Education, Winneba, Winneba, Ghana

PUBLICATIONS

Journal articles 6

1. Stephen Bani, Evans K. Quaye, Sydney Lloyd Abbey, Benjamin Addo-Mensah, Douglass Ayittey, **Issahaku Sontaa Jakalia**, Emmanuel Ogyadu Lartey (2025). Analysis and Optimization of Heat Enhancement for Hydrogen Fueled Micro-Pin-Fin Planar Combustor for Thermophotovoltaic Application Using Response Surface Methodology. *International Journal of Energy Research*. https://doi.org/10.1155/er/9854622
2. Anthony Babategremine Yuoni, **Issahaku Sontaa Jakalia**, Victor Antwi, Isaac Kwesi Acquah, Cynthia Jebuni-Adanu (2025). Exploring the factors influencing undergraduate students' decision to pursue physics at the University of Education, Winneba. *Research in Science & Technological Education*. https://doi.org/10.1080/02635143.2025.2510404
3. Anthony Babategrimine Yuoni, Uthman Amadu, **Issahaku Sontaa Jakalia** (2024). Examining the Impact of Knowledge of Mathematics on Academic Achievement in Physics, Among Students at Mawuli Senior High School, Ghana. *Journal of Education and Practice*. https://doi.org/10.47941/jep.2236
4. Cynthia Jebuni-Adanu, Victor Antwi, Isaac Kwesi Acquah, Desmond Appiah, Michael Gyan, Fortune Addo Wuver, **Issahaku Sontaa Jakalia**, Bernard Sarkyi (2023). Utilizing Physics Education Technology (PhET) for Improving Students' Understanding of Energy Conversion and Conservation in a Senior High Technical School. https://doi.org/10.7176/jep/14-8-06
5. **IS Jakalia**, AA Aning, K Preko, SK Danuor (2015). Implications of soil resistivity measurements using the electrical resistivity method: a case study of A maize farm under different soil preparation modes at knust agricultural …. *International Journal of Scientific and Technology Research*. https://www.researchgate.net/profile/Akwasi-Aning/publication/306264655_Implications_Of_Soil_Resistivity_Measurements_Using_Th

e_Electrical_Resistivity_Method_A_Case_Study_Of_A_Maize_Farm_Under_Different_Soil_Preparation_Modes_At_KNUST_Agricultural_Research_Station_Kumasi/links/57b5b48a08aede8a665baa72/Implications-Of-Soil-Resistivity-Measurements-Using-The-Electrical-Resistivity-Method-A-Case-Study-Of-A-Maize-Farm-Under-Different-Soil-Preparation-Modes-At-KNUST-Agricultural-Research-Station-Kumasi.pdf

6. AA Aning, **IS Jakalia**, D Appiah (2014). Electrical resistivity as a geophysical mapping tool; a case study of the new art department, Knust-Ghana. *International Journal of Scientific and Research Publications*. https://www.academia.edu/download/36978652/ijsrp-p2529.pdf