Mr. Peter Oppong Tawiah

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RESEARCH

Interests	Product Design · Energy · Mechanics · Maintenance
Areas	Mechanical Engineering · Pollution · Building and Construction · Electrical and Electronic Engineering · Environmental Engineering · Plant Science

RESEARCH SUMMARY

17	83	5	3	0.33	0%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 17 publications listed below, 2014–2026. Field-weighted impact is the mean over the 8 works scored for it; 1.00 is the world average for works of the same field, type and year. 0 of the 8 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 16

1. Yen A. Sokama-Neuyam, Emperor Amedeka, Emmanuel O. Ofori, Stephen Adjei, Patrick Boakye, **Peter O. Tawiah**, Francis Kemausuor (2025). Predictive Modelling of the Energy and Climate Cost of Ghana's Economic Growth. *Greenhouse Gases Science and Technology*. https://doi.org/10.1002/ghg.2373
2. Godwin Kafui Ayetor, Anthoinette Ativor, Martin Appiah Kesse, **Peter Oppong Tawiah**, Boucar Diouf, Samuel Opare, Ephraim Bonah Agyekum, Prince Yaw Andoh (2025). Realistic assessment of electric vehicle policies in Africa: a case study of Ghana. *Case Studies on Transport Policy*. https://doi.org/10.1016/j.cstp.2025.101500
3. S Boahen, KO Amoabeng, R Opoku, **PO Tawiah** (2025). The prospect of using borehole water for space cooling in ghana: A numerical study. *Scientific African*. https://www.sciencedirect.com/science/article/pii/S2468227625003564
4. Joseph Nyumutsu, Anthony Agyei-Agyemang, Prince Yaw Andoh, **Peter Oppong Tawiah**, Benjamin Atribawuni Asaaga (2023). The Potential of Sawdust and Coconut Fiber as Sound Reduction Materials. *Journal of Applied Engineering and Technological Science (JAETS)*. https://doi.org/10.37385/jaets.v4i2.624
5. Michael Kweku Commeh, Anthony Agyei-Agyemang, **Peter Oppong Tawiah**, Benjamin Atribawuni Asaaga (2022). CFD analysis of a flat bottom institutional cookstove. *Scientific African*. https://doi.org/10.1016/j.sciaf.2022.e01117
6. Anthony Agyei-Agyemanga, **Peter Oppong Tawiaha**, John K. Afriyieb, Michael K. Commehc (2022). Effects of roof angle, inlet gap size and drying time on dryer mass flow rate and moisture content in a chimney-dependent solar crop dryer using design of experiments (DOE). *Al-Qadisiyah Journal for Engineering Sciences*. https://doi.org/10.30772/qjes.v15i1.802
7. Anthony Agyei-Agyemang, Michael Kweku Commeh, **Peter Oppong Tawiah**, Benjamin Atribawuni Asaaga (2022). Numerical Modeling of a Hot Plate Stove for Peanut Roasting. *Journal of Engineering*. https://doi.org/10.1155/2022/9523767
8. Anthony Agyei-Agyemang, **Peter O. Tawiah**, John K. Afriyie, Michael K. Commeh (2022). The Effects of roof angle, inlet gap size and drying time on dryer mass flow rate and moisture content in a chimney-

dependent solar crop dryer using design of experiments (DOE). *Al-Qadisiyah Journal for Engineering Sciences*. https://doi.org/10.30772/qjes.v15i1.821

9. Prince Yaw Andoh, Anthony Agyei-Agyemang, **Peter Oppong Tawiah**, Charles Kofi Kafui Sekyere, Charles McCarthy Asante (2021). Development of Composite Material for Wind Turbine Blades. *Journal of Applied Engineering and Technological Science (JAETS)*. https://doi.org/10.37385/jaets.v2i2.211
10. PY Andoh, A Agyei-Agyemang, **PO Tawiah** (2021). OPTIMIZAING THE WEIGHT CLOGGED OF A VIBRATING SCREEN DURING MINING OPERATIONS. *Journal of Science and Technology*. https://journal.knust.edu.gh/index.php/just/article/view/1236
11. **Peter Oppong Tawiah**, A Agyemang (2017). Impact of noise in the industry and commercial areas in ghana: case study of the Kumasi metropolis. *Int. J. Eng. Res. Appl.* https://scholar.google.com/scholar?cluster=16258197377288281083&hl=en&oi=scholarr
12. PY Andoh, A Agyei-Agyemang, **PO Tawiah** (2017). Model for the Prediction and Optimization of Flaws and Material Removal Rate during Machining of Shafts in Ghana. *Journal of Science and Technology (Ghana)*. https://www.researchgate.net/profile/Michael-Kwabena-Boadu-2/publication/361616712_Model_for_the_Prediction_and_Optimization_of_Flaws_and_Material_Removal_Rate_during_Machining_of_Shafts_in_Ghana/links/62bca649f9dee438e8cbcd0a/Model-for-the-Prediction-and-Optimization-of-Flaws-and-Material-Removal-Rate-during-Machining-of-Shafts-in-Ghana.pdf
13. **PO Tawiah**, PY Andoh, A Agyei-Agyemang, F Nyarko (2016). Characterization of Recycled Plastics for Structural Applications. *International Journal of Science and Technology*. https://www.academia.edu/download/55808500/3379145761289.pdf
14. PY Andoh, **PO Tawiah**, A Agyei-Agyemang (2016). Characterization of the Mechanical Properties of Ghanaian Bamboo for Structural Applications. *International Journal of Science and Technology*. https://scholar.google.com/scholar?cluster=22533788608939640 90&hl=en&oi=scholarr
15. PY Andoh, **PO Tawiah** (2016). Designing a Mechanical System that will be used to Extract and Separate Lemon Grass Oil. *International Journal of Science and Technology*. https://scholar.google.com/scholar?cluster=12624948065847653589&hl=en&oi=scholarr
16. F Agyei-Agyemang, **PO Tawiah**, F Nyarko (2014). Efficient charcoal stoves: enhancing their benefits to a developing country using an improved design approach. *International Journal of Engineering Trends and Technology*. https://scholar.google.com/scholar?cluster=6639243214729803857&hl=en&oi=scholarr

Book chapters 1

1. S Boahen, KO Amoabeng, **PO Tawiah** (2026). Life cycle assessment and design optimization for deconstructibility of green buildings. *Research Companion on Circularity, Deconstruction and Adaptability in Green Buildings*. https://www.elgaronline.com/abstract/book/9781035348732/chapter16.xml