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RESEARCH

Areas: Civil and Structural Engineering · Public Health, Environmental and Occupational Health · Atmospheric Science · Global and Planetary Change · Orthopedics and Sports Medicine · Waste Management and Disposal

RESEARCH SUMMARY

13	135	5	4	1.21	23%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 13 publications listed below, 2013–2025. Field-weighted impact is the mean over the 13 works scored for it; 1.00 is the world average for works of the same field, type and year. 3 of the 13 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 13

1. Holali Kwami Apevienyeku, **Joshua Ampofo**, James Amankwaa Amoako, Fabian Jodeit, Keredin Temam Siraj, Markus Eblenkamp, Petra Mela (2025). Implementation of medical plastic waste segregation and decontamination for sustainable recycling in healthcare. *Journal of Material Cycles and Waste Management*. https://doi.org/10.1007/s10163-025-02192-w
2. David Kofi Oppong, **Joshua Ampofo**, Eunice Akyereko Adjei, Anthony Agyei-Agyemang, Kwasi Kete Bofah, God'sable Sitsofe Koku Aidam, Mary Korkor Teye, Charulatha Siva, Samuel Vivek Williams (2024). A method for determining the attitude of a small unmanned aerial vehicle using sensor error information and a neural network. *Indian Journal of Engineering and Materials Sciences*. https://doi.org/10.56042/ijems.v31i6.10367
3. Holali Kwami Apevienyeku, **Joshua Ampofo**, James Amankwaa Amoako (2024). Recycling potential of medical plastic waste. *Discover Environment*. https://doi.org/10.1007/s44274-024-00109-2
4. Denis E.K. Dzebre, **J. Ampofo**, Muyiwa S. Adaramola (2021). An assessment of high-resolution wind speeds downscaled with the Weather Research and Forecasting Model for coastal areas in Ghana. *Heliyon*. https://doi.org/10.1016/j.heliyon.2021.e07768
5. G.K. Ayetor, Innocent Mbonigaba, **Joshua Ampofo**, Albert Sunnu (2021). Investigating the state of road vehicle emissions in Africa: A case study of Ghana and Rwanda. *Transportation Research Interdisciplinary Perspectives*. https://doi.org/10.1016/j.trip.2021.100409
6. Denis E.K. Dzebre, Akwasi A. Acheampong, **Joshua Ampofo**, Muyiwa S. Adaramola (2019). A sensitivity study of Surface Wind simulations over Coastal Ghana to selected Time Control and Nudging options in the Weather Research and Forecasting Model. *Heliyon*. https://doi.org/10.1016/j.heliyon.2019.e01385
7. Matthias Brönner, **Joshua Ampofo**, Dominik Fries, Markus Lienkamp (2019). Configuration Parameters within Electric Vehicle Production Strategies in Sub-Saharan Africa - the aCar mobility Case. *Procedia CIRP*. https://doi.org/10.1016/j.procir.2020.01.025
8. Emmanuel Akowuah, Prince Yaw Andoh, **Joshua Ampofo** (2019). Development of Biomechanical Model and FEA Modal Analysis of the Gravid Human Uterus Exposed To Ramp-Induced Vibration.
9. Emmanuel Akowuah, **Joshua Ampofo**, Prince Yaw Andoh (2019). Evaluation of Ramp-Induced Vibration

Exposure Level for a Pregnant Woman Commuting Along Urban Roads in Ghana.

10. A. T. Larbie, Prince Yaw Andoh, **Joshua Ampofo** (2017). An Evaluation of The Impact of Public-Private Partnership on Vehicle Inspection in The Greater Accra Region of Ghana. *African Journal Of Applied Research*.
11. Emmanuel Akowuah, **Joshua Ampofo** (2016). Computational Modelling of Movement of Water Soluble Pollutants Through Soil.
12. Emmanuel Akowuah, **Joshua Ampofo**, Prince Yaw Andoh (2015). Effect of Speed Ramps on Pregnant Women: A Case Study of Travellers Along Kumasi-Cape Coast Highway.
13. **Joshua Ampofo**, Emmanuel Ofori, Ajani Adetunji Ibrahim (2013). Mechanical properties of plantain pseudostem and implications for susceptibility to lodging. *DOAJ (DOAJ: Directory of Open Access Journals)*. https://doi.org/10.12895/jaeid.20131.95