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RESEARCH

Areas: Civil and Structural Engineering · Transportation · Automotive Engineering · Safety, Risk, Reliability and Quality · Ecology, Evolution, Behavior and Systematics · Global and Planetary Change

RESEARCH SUMMARY

26	326	10	10	0.86	8%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 26 publications listed below, 2007–2026. Field-weighted impact is the mean over the 26 works scored for it; 1.00 is the world average for works of the same field, type and year. 2 of the 26 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 26

1. Phodie Musa Kamara, **Yaw Adubofour Tuffour**, Frank Baffour-Ata, Daniel Atuah Obeng (2026). An assessment of climate risks and vulnerabilities of unpaved secondary roads and resilient enhancement strategies in Sierra Leone. *Climatic Change*. https://doi.org/10.1007/s10584-026-04149-w
2. Daniel Atuah Obeng, Ernest Osei Bonsu, **Yaw Adubour Tuffour**, Michael Osei Asibey, Emmanuel Komla Dzisi (2026). Determining tailpipe emissions along Ghana's major arterials and the policy implications. *African Transport Studies*. https://doi.org/10.1016/j.aftran.2026.100112
3. Opeyemi Antoinette Gbadewole, Kenneth Adomako Tutu, Ahmed Kudu Mohammed, Michael Suma Appiah, Martina Francisca Baidoo, **Yaw Adubofour Tuffour** (2026). Performance characterization of asphalt mixtures containing steel slag, palm oil clinker and high-density polyethylene. *Discover Civil Engineering*. https://doi.org/10.1007/s44290-026-00604-w
4. Michael S. Appiah, Kenneth A. Tutu, Opeyemi A. Gbadewole, Ahmed K. Mohammed, **Yaw A. Tuffour**, Daniel A. Obeng (2026). Rheological benchmarking of GTR-modified asphalt binder as a sustainable alternative to SBS modification. *Discover Civil Engineering*. https://doi.org/10.1007/s44290-026-00607-7
5. Phodie Musa Kamara, **Yaw Adubofour Tuffour**, Frank Baffour-Ata, Daniel Atuah Obeng (2025). Assessing local community perspectives on climate change and variability: Implications for unpaved secondary roads in Sierra Leone. *Sustainable Futures*. https://doi.org/10.1016/j.sftr.2025.100785
6. Veronica Gayflor, Kenneth Tutu, Collins Nketiah, **Yaw Tuffour** (2025). Development of superpave binder performance grade selection guide for Liberia. *Journal of the Ghana Institution of Engineering (JGhIE)*. https://doi.org/10.56049/jghie.v25i2.240
7. Phodie Musa Kamara, **Yaw Adubofour Tuffour**, Frank Baffour-Ata, Daniel Atuah Obeng (2025). Framework for assessing the climate vulnerability of unpaved roads in Sierra Leone. *Frontiers in Climate*. https://doi.org/10.3389/fclim.2025.1608176
8. Simon Ntramah, Kenneth A. Tutu, **Yaw A. Tuffour** (2024). Development of Asphalt Pavement Temperature Prediction Models for Sub-Saharan Tropical Climate: The Case of Ghana. *International Journal of Pavement Research and Technology*. https://doi.org/10.1007/s42947-024-00451-x
9. Bala Musa, Kenneth Tutu, **Yaw Tuffour** (2024). Re-use of COVID-19 waste facemasks for modification of

Nigeria's naturally occurring bitumen for road construction. *Journal of Construction Project Management and Innovation*. https://doi.org/10.36615/jcpmi.v14i2.3072

10. Emmanuel Dzisi, Daniel Atuah Obeng, **Yaw Adubofour Tuffour**, Williams Ackaah (2023). Digitalization of the paratransit (trotro) using mobility as a service: What are the adoption intentions of operators and operator unions in Ghana? *Research in Transportation Business & Management*. https://doi.org/10.1016/j.rtbm.2023.100968
11. Simon Ntramah, Kenneth A. Tutu, **Yaw A. Tuffour**, Charles A. Adams, Emmanuel Kofi Adanu (2023). Evaluation of Selected Empirical Models for Asphalt Pavement Temperature Prediction in a Tropical Climate: The Case of Ghana. *Sustainability*. https://doi.org/10.3390/su152215846
12. Kwadwo A. Boateng, **Yaw A. Tuffour**, Stephen Agyeman, Fred Boadu (2022). Potential improvements in montmorillonite-nanoclay-modified Cold-Mix Asphalt. *Case Studies in Construction Materials*. https://doi.org/10.1016/j.cscm.2022.e01331
13. Kenneth Adomako Tutu, Simon Ntramah, **Yaw Adubofour Tuffour** (2022). Superpave performance graded asphalt binder selection for asphalt mixture design in Ghana. *Scientific African*. https://doi.org/10.1016/j.sciaf.2022.e01348
14. Daniel Atuah Obeng, **Yaw Adubofour Tuffour**, Michael Poku-Boansi, Clifford Amoako (2022). The effectiveness of rumble strips installations in speed reduction along major highways in Ghana – The case of N1 highway. *Scientific African*. https://doi.org/10.1016/j.sciaf.2022.e01215
15. Daniel Atuah Obeng, Victor Owusu, **Yaw A. Tuffour** (2021). Degradation of retro-reflectivity of thermoplastic pavement markings on trunk roads in Ghana. *Transportation Engineering*. https://doi.org/10.1016/j.treng.2021.100082
16. Emmanuel Komla Junior Dzisi, Daniel Atuah Obeng, Williams Ackaah, **Yaw Adubofour Tuffour** (2021). MaaS for paratransit minibus taxis in developing countries: A review. *Travel Behaviour and Society*. https://doi.org/10.1016/j.tbs.2021.09.001
17. Emmanuel Dzisi, Daniel Atuah Obeng, **Yaw Adubofour Tuffour** (2021). Modifying the SERVPERF to assess paratransit minibus taxis trotro in Ghana and the relevance of mobility-as-a-service features to the service. *Heliyon*. https://doi.org/10.1016/j.heliyon.2021.e07071
18. Kwadwo Appiah Boateng, **Yaw Adubofour Tuffour**, Daniel Obeng-Atuah, Stephen Agyeman (2021). Quality of cold-mix asphalt in bituminous pavement maintenance in Ghana: Preliminary indications. *Case Studies in Construction Materials*. https://doi.org/10.1016/j.cscm.2021.e00769
19. Daniel Atuah Obeng, **Yaw A. Tuffour** (2020). Prospects of alternative funding sourcing for maintenance of road networks in developing countries. *Transportation Research Interdisciplinary Perspectives*. https://doi.org/10.1016/j.trip.2020.100225
20. Victor Owusu, **Yaw A. Tuffour**, Daniel A. Obeng, Mohammed Salifu (2018). Degradation of Retro-Reflectivity of Thermoplastic Pavement Markings: A Review. *Open Journal of Civil Engineering*. https://doi.org/10.4236/ojce.2018.83023
21. Edmund Obeng, **Yaw A. Tuffour**, Daniel A. Obeng, Bernard Koranteng-Yorke (2017). Preliminary k-Values of Unbound Natural Quartzitic Gravels for Mechanistic-Empirical Pavement Design. *Open Journal of Civil Engineering*. https://doi.org/10.4236/ojce.2017.74034
22. **Yaw Adubofour Tuffour** (2016). Premature Failure of Apedwa-Bunsu Junction Section of N6 in Ghana: Some Notes for Consideration. *American Journal of Civil Engineering*. https://doi.org/10.11648/j.ajce.20160403.14
23. Kenneth A. Tutu, **Yaw A. Tuffour** (2016). Warm-Mix Asphalt and Pavement Sustainability: A Review. *Open Journal of Civil Engineering*. https://doi.org/10.4236/ojce.2016.62008
24. **Yaw Adubofour Tuffour** (2014). Motorcycle Taxis in Public Transportation Services within the Accra Metropolis. *American Journal of Civil Engineering*. https://doi.org/10.11648/j.ajce.20140204.12
25. **Y. A. Tuffour** (2014). Suitability of Natural Gravels in Ghana for Otta Seal Construction. *IOSR Journal of Engineering*. https://doi.org/10.9790/3021-04714653
26. **Yaw A. Tuffour**, J. Asare-Bediako (2007). Driver Compliance with Traffic Signal Indications in Two

Ghanaian Cities. *Journal of Civil Engineering Research and Practice*. https://doi.org/10.4314/jcerp.v4i2.29177