Daniel Obeng Atuah

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RESEARCH

Interests	Transportation Planning and Policy · Safety and Environmental Sustainability
Areas	Transportation · Safety, Risk, Reliability and Quality · Civil and Structural Engineering · Automotive Engineering · Building and Construction · Management, Monitoring, Policy and Law

RESEARCH SUMMARY

27	329	10	11	1.34	29%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 27 publications listed below, 2013–2026. Field-weighted impact is the mean over the 24 works scored for it; 1.00 is the world average for works of the same field, type and year. 7 of the 24 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Dr. 2011–present
Civil Engineering, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

EDUCATION AND QUALIFICATIONS

Dr. 2011–present
Civil Engineering, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

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. John Bernard Koranteng-Yorke, **Daniel Atuah Obeng**, Emmanuel Dzisi, Emmanuel Quansah (2026). Developing an efficient Road Fund Allocation Model for Sub-Saharan Africa using Ghana's case. *African Transport Studies*. https://doi.org/10.1016/j.aftran.2026.100118
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. Iddrisu Seidu, Emmanuel Komla Dzisi, **Daniel Atuah Obeng** (2026). Who gets left behind? Prioritizing assistive technology for persons with disabilities in low-resource urban transport systems: Evidence from Greater Kumasi, Ghana. *Social Sciences & Humanities Open*. https://doi.org/10.1016/j.ssaho.2026.103427
6. 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

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. **Daniel Atuah Obeng**, John Bernard Koranteng-Yorke, Emmanuel Dzisi (2025). Prospects of Ghana's inland water transport development: An informal transport services delivery perspective. *African Transport Studies*. https://doi.org/10.1016/j.aftran.2025.100038
9. **Daniel Obeng**, AK Danso, J Ayarkwa, EP Tudzi (2024). Barriers to accessibility of urban roads by persons with disabilities: A review of the literature. *Journal of Transport & Health*. https://www.sciencedirect.com/science/article/pii/S2214140524001816
10. Brianna P. Lawton, Shauna L. Hallmark, Guillermo Basulto-Elias, **Daniel Atuah Obeng**, Williams Ackaah (2024). Understanding the relationship between road users and the roadway infrastructure in Ghana. *Accident Analysis & Prevention*. https://doi.org/10.1016/j.aap.2024.107475
11. 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
12. **Daniel Atuah Obeng**, Enoch Bessah, William Amponsah, Emmanuel Komla Dzisi, Wilson Agyei Agyare (2022). Ghana's railway transport services delivery: A review. *Transportation Engineering*. https://doi.org/10.1016/j.treng.2022.100111
13. **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
14. **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
15. 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
16. 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
17. Theresa-Samuelle Adjaidoo, Emmanuel Kofi Akowuah, **Daniel Atuah Obeng**, Emmanuel Dzisi, Williams Ackaah (2021). Passenger counting in minivan-taxis using crowd-sourcing and hierarchical clustering. *Scientific African*. https://doi.org/10.1016/j.sciaf.2021.e00842
18. **Daniel Atuah Obeng** (2021). Pedestrians safety perceptions on midblock crosswalk utilization along urban corridors of developing countries. *International Journal of Injury Control and Safety Promotion*. https://doi.org/10.1080/17457300.2021.1969411
19. **Daniel Obeng**, Daniel Obeng-Atuah, Williams Ackaah, Adubofour Yaw Tuffour, Nimako Eric Aidoo (2021). Uptake in on-demand ride-hailing for intracity long distance trip making during COVID-19. *Urban Planning and Transport Research*. https://doi.org/10.1080/21650020.2021.1872415
20. **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
21. Michael Poku-Boansi, Clifford Amoako, **Daniel Obeng Atuah** (2019). Urban travel patterns and safety among school children around Accra, Ghana. *Journal of Transport & Health*. https://doi.org/10.1016/j.jth.2019.100660
22. 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

23. 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
24. **Daniel Obeng**, Michael Poku-Boansi, Patrick Brandful Cobbinah (2016). Pedestrian crossing in urban Ghana: Safety implications. *Journal of Transport & Health*. https://doi.org/10.1016/j.jth.2016.06.007
25. **DA Obeng** (2013). Characteristics of pedestrian accidents on trunk roads in Ghana. *Int Ref J Eng Sci ISSN*. https://scholar.google.com/scholar?cluster=17306984794497083646&hl=en&oi=scholarr
26. **DA Obeng** (2013). Modelling risk factors of pedestrian accidents on trunk roads in Ghana. *International Refereed Journal of Engineering and Science (IRJES)*. https://www.academia.edu/download/95066127/I255564.pdf

Book chapters 1

1. **Daniel Atuah Obeng**, Emmanuel Komla Junior Dzisi (2022). Exploring Barriers and Prospects of Bicycle Transportation: A Case Study of a Ghanaian University Campus. *The urban book series*. https://doi.org/10.1007/978-3-031-17327-1_17