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RESEARCH

Interests: Renewable Energy · Climate Change · Water Resources · Waste Management · Environment and Health

Areas: Biomedical Engineering · Mechanical Engineering · Renewable Energy, Sustainability and the Environment · Pollution · Energy Engineering and Power Technology · Nutrition and Dietetics

RESEARCH SUMMARY

86	1,908	22	34	0.96	7%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 86 publications listed below, 2011–2026. Field-weighted impact is the mean over the 42 works scored for it; 1.00 is the world average for works of the same field, type and year. 3 of the 42 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 83

1. Wilson Ofori Sarkodie, Stephen Kwaw Awuah, Adwoba Edjah, Emmanuel Amankwah, **Mohammed Takase** (2026). Green waste-to-biogas in Ghana's urban markets: A comprehensive review of energy potential, opportunities, challenges, and policy frameworks. *Next Energy*. https://doi.org/10.1016/j.nxener.2026.100916
2. Richard Kwadzo Asare, Selase Kofi Adanu, **Mohammed Takase**, George Harrison Coffie (2026). Importance of Monitoring and Evaluation as a Tool for Effective Collaborative Forest Management (CFM) in Ghana for Sustainable Development. *International Journal of Forestry Research*. https://doi.org/10.1155/ijfr/4798319
3. **Mohammed Takase**, *3Adwoba Kua–Manza Edjah (2026). Performance Assessment and Preliminary Reuse Suitability of a Hospital-Based Waste Stabilization Pond System in Ghana. *JOURNAL OF GHANA SCIENCE ASSOCIATION*.
4. Wilson Ofori Sarkodie, Felicia Takyi, Emmanuel Amankwah, **Mohammed Takase** (2025). A review on the potential of oil from fish waste as a source for biodiesel production in Ghana. *Next research.*. https://doi.org/10.1016/j.nexres.2025.100427
5. **Mohammed Takase** (2025). Biofuel in Ghana: potentials and strategies for policy implementation. *Fuel Communications*. https://www.sciencedirect.com/science/article/pii/S2666052025000020
6. Wilson Ofori Sarkodie, Stephen Kelly Kissi, **Mohammed Takase**, Emmanuel Amankwah (2025). Commercialization of Algae-Based Biofuels: The Case of Ghana. *International Journal of Chemical Engineering*. https://doi.org/10.1155/ijce/5704048
7. Michael Aboah, **Mohammed Takase**, Christiana Odumah Hood (2025). Fuel Communications. *Fuel*. https://www.researchgate.net/profile/Wilson-Ofori-Sarkodie/publication/388388692_Biofuel_in_Ghana_Potentials_and_strategies_for_policy_implementation/links/69678399abecff2489eb16de/Biofuel-in-Ghana-Potentials-and-strategies-for-policy-implementation.pdf
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9. Rogers Kipkoech, **Mohammed Takase**, Arcadius Martinien Agassin Ahogle, Gordon Ocholla (2024). Analysis of properties of biodiesel and its development and promotion in Ghana. *Heliyon*. https://doi.org/10.1016/j.heliyon.2024.e39078
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11. Rogers Kipkoech, **Mohammed Takase**, Arcadius Martinien Agassin Ahogle, Gordon Ocholla (2024). Opportunities and challenges in Ghana's renewable energy sector. *Discover Applied Sciences*. https://doi.org/10.1007/s42452-024-06148-x
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13. Rogers Kipkoech, **Mohammed Takase** (2024). Production of Biodiesel from Crude Pittosporum resiniferum Oil Using Heterogeneous Solid Base Catalyst. *Nano Select*. https://doi.org/10.1002/nano.202300132
14. **Mohammed Takase**, Rogers Kipkoech (2023). An Overview of Scientific Production of Renewable Energies in Ghana. *Journal of Energy*. https://doi.org/10.1155/2023/7414771
15. Rogers Kipkoech, **Mohammed Takase**, Aminu Aliyu, Joy Kibet, Faith Mugah (2023). Availability and accessibility of toilet facilities among low-income households in selected settlements of Cape Coast Metropolis, Ghana. *Journal of Water Sanitation and Hygiene for Development*. https://doi.org/10.2166/washdev.2023.197
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19. **Mohammed Takase**, Rogers Kipkoech, Dominic Luckee Miller, Evan Kwami Buami (2023). Optimisation of the reaction conditions for biodiesel from Parkia biglobosa oil via transesterification with heterogeneous clay base catalyst. *Fuel Communications*. https://doi.org/10.1016/j.jfueco.2023.100089
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35. George Lutterodt, Michael K. Miyittah, Bright Addy, Ebenezer D.O. Ansa, **Mohammed Takase** (2021). Groundwater pollution assessment in a coastal aquifer in Cape Coast, Ghana. *Heliyon*. https://doi.org/10.1016/j.heliyon.2021.e06751

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