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## RESEARCH

| | |
|---|---|
| Interests | Molecular & Medical Microbiology |
| Areas | Oceanography · Aerospace Engineering · Infectious Diseases · Astronomy and Astrophysics · Epidemiology · Molecular Medicine |

## RESEARCH SUMMARY

| 38 | 476 | 12 | 15 | 2.03 | 10% |
|---|---|---|---|---|---|
| Publications | Citations | h-index | i10-index | Field-weighted impact | World top 10% |

Counted from the 38 publications listed below, 2007–2026. Field-weighted impact is the mean over the 30 works scored for it; 1.00 is the world average for works of the same field, type and year. 3 of the 30 papers scored for it are among the world's most cited tenth for their field, type and year.

## PUBLICATIONS

### Journal articles 38

1. Obed Cudjoe, Fuleyrah Imoro Sidibe, Raymond Owusu Ansah, Jude Djabanor Nanor, Nathaniel Nii Nortey Addo, Richmond Osei, Obed Ntiamoah Nyame, Augustine Boakye Donkor, Abraham Tonny Hagan, Dickson Kofi Wiredu Ocansey, **Isaac Dadzie** (2026). Comparative performance of stool antigen and serum antibody assays relative to stool culture among patients with suspected typhoid fever in Cape Coast, Ghana. *BMC Infectious Diseases*. https://doi.org/10.1186/s12879-026-14398-w
2. Richael O Mills, **Isaac Dadzie**, Thanh Le-Viet, David J Baker, Humphrey P K Addy, Samuel A Akwetey, Irene E Donkoh, Elvis Quansah, Prince S Semanshia, Jennifer Morgan, Abraham Mensah, Nana E Adade, Emmanuel O Ampah, Emmanuel Owusu, Philimon Mwintige, Eric O Amoako, Anton Spadar, Kathryn E Holt, Ebenezer Foster-Nyarko (2024). Genomic diversity and antimicrobial resistance in clinical Klebsiella pneumoniae isolates from tertiary hospitals in Southern Ghana. *Journal of Antimicrobial Chemotherapy*. https://doi.org/10.1093/jac/dkae123
3. Theophilus Osei Gyasi, Kwame Osei Darkwah, Bright Opoku Ahinkorah, Abdul-Aziz Seidu, **Isaac Dadzie** (2024). Knowledge, attitudes, and practices as well as determinant factors regarding urogenital schistosomiasis among school-aged children in rural communities: a cross-sectional study in the Cape Coast Metropolis in Ghana. *Cogent Public Health*. https://doi.org/10.1080/27707571.2024.2446095
4. James Kojo Prah, Samuel Amoah, Cecil Banson, Benjamin Nyane, Rudolf Aaron Arthur, Godfrey Yeboah Amoah, Isaac Derban, Sobre Kwasi Nkrumah, **Isaac Dadzie**, Irene Esi Donkoh (2022). A Comparative Study of the Performance of Typhoid Diagnostic Tests among Suspected Patients at the University of Cape Coast Hospital, Ghana. *Journal of Advances in Medicine and Medical Research*. https://doi.org/10.9734/jammr/2022/v34i2031492
5. Samuel Osah, Akwasi Afrifa Acheampong, **Isaac Dadzie**, Collins Fosu (2022). Comparative evaluation and analysis of different tropospheric delay models in Ghana. *South African Journal of Geomatics*. https://doi.org/10.4314/sajg.v10i2.10
6. Osman Mohammed Abukari, Akwasi Afrifa Acheampong, **Isaac Dadzie**, Samuel Osah (2022). Congruence through repeatability of position solutions by different GNSS survey techniques. *South African Journal of Geomatics*. https://doi.org/10.4314/sajg.v11i2.8
7. Alex Osei-Akoto, Akwasi Afrifa Acheampong, **Isaac Dadzie**, John Ayer, Samuel Osmah (2022).

Determination of position coordinates of the new active CORS in Ghana. *Journal of the Ghana Institution of Engineering (JGhIE)*. https://doi.org/10.56049/jghie.v22i1.25

8. Ernest Biney, Nathaniel Biney, **Isaac Dadzie**, Emmanuel Harris, Gladys Ama Quartey, Yaw Mensah Asare, Enoch Bessah, Eric Kwabena Forkuo (2022). Impact of mining on vegetation cover: A case study of Prestea Huni-Valley municipality. *Scientific African*. https://doi.org/10.1016/j.sciaf.2022.e01387
9. **I Dadzie** (2021). Assessment of Groundwater Quality Using GIS: A Case Study of Ahafo Kenyasi. *South African Journal of Geomatics*. http://www.sajg.org.za/index.php/sajg/article/view/788
10. S. Osah, A. A. Acheampong, C. Fosu, **I. Dadzie** (2021). Comparative analysis of blind tropospheric correction models in Ghana. *Journal of Geodetic Science*. https://doi.org/10.1515/jogs-2020-0104
11. Samuel Osah, Akwasi A. Acheampong, Collins Fosu, **Isaac Dadzie** (2021). Deep learning model for predicting daily IGS zenith tropospheric delays in West Africa using TensorFlow and Keras. *Advances in Space Research*. https://doi.org/10.1016/j.asr.2021.04.039
12. Samuel Osah, Akwasi A. Acheampong, Collins Fosu, **Isaac Dadzie** (2021). Evaluation of Zenith Tropospheric Delay Derived from Ray-Traced VMF3 Product over the West African Region Using GNSS Observations. *Advances in Meteorology*. https://doi.org/10.1155/2021/8836806
13. Samuel Osah, Akwasi A. Acheampong, Collins Fosu, **Isaac Dadzie** (2021). Regression models for predicting daily IGS zenith tropospheric delays in West Africa: Implication for GNSS meteorology and positioning applications. *Meteorological Applications*. https://doi.org/10.1002/met.2030
14. Abass Inusah, Elvis Quansah, Kwabena Fosu, **Isaac Dadzie** (2021). Resistance Status of Bacteria from a Health Facility in Ghana: A Retrospective Study. *Journal of Pathogens*. https://doi.org/10.1155/2021/6648247
15. **Isaac Dadzie**, Shaibu Adams Avorgbedo, Regina Appiah-Opong, Obed Cudjoe (2020). Cytotoxic and Antioxidant Effects of Antimalarial Herbal Mixtures. *International Journal of Microbiology*. https://doi.org/10.1155/2020/8645691
16. Abubakari Sisu, James Abugri, Richard K.D. Ephraim, **Isaac Dadzie**, Samuel Essien-Baidoo, Joseph Kyei-Mensah, Rebecca P. Storph, Emmanuel Toboh (2020). Intestinal parasite infections in diabetes mellitus patients; A cross-sectional study of the Bolgatanga municipality, Ghana. *Scientific African*. https://doi.org/10.1016/j.sciaf.2020.e00680
17. Kwabena Fosu, Elvis Quansah, **Isaac Dadzie** (2019). Antimicrobial Profile and Asymptomatic Urinary Tract Infections among Pregnant Women Attending Antenatal Clinic in Bolgatanga Regional Hospital, Ghana. *Microbiology Research Journal International*. https://doi.org/10.9734/mrji/2019/v28i330132
18. Eben Godsway Dzodanu, Justice Afrifa, Desmond Omane Acheampong, **Isaac Dadzie** (2019). Diagnostic Yield of Fluorescence and Ziehl-Neelsen Staining Techniques in the Diagnosis of Pulmonary Tuberculosis: A Comparative Study in a District Health Facility. *Tuberculosis Research and Treatment*. https://doi.org/10.1155/2019/4091937
19. Elvis Quansah, Prince Amoah Barnie, Desmond Omane Acheampong, Dorcas Obiri-Yeboah, Richael Odarkor Mills, Ebenezer Asmah, Obed Cudjoe, **Isaac Dadzie** (2019). Geographical Distribution of β-Lactam Resistance among Klebsiella spp. from Selected Health Facilities in Ghana. *Tropical Medicine and Infectious Disease*. https://doi.org/10.3390/tropicalmed4030117
20. **I Dadzie** (2019). Modelling Uncertainties in Differential Global Positioning System Dataset. *Journal of Geomatics*. https://isgindia.org/wp-content/uploads/2019/07/Pap_03_Modelling-uncertainties-in-differential-global-positioning-system-dataset.pdf
21. Emmanuel K. Dadzie, Richard K.D. Ephraim, Justice Afrifa, Richard Quaicoe, Benjamin S. Bediako, Benedict I. Duku, Townshed Adjetey, **Isaac Dadzie** (2019). Persistent exposure to wood smoke is associated with variations in biochemical and hematological indices among regular wood burners in the Cape Coast metropolis, Ghana. *Scientific African*. https://doi.org/10.1016/j.sciaf.2019.e00100
22. **Isaac Dadzie**, Nicholas Quansah, Emmanuel Kingsley Dadzie (2019). Profile and Antimicrobial Susceptibility Pattern of Bacterial Isolates from Infected Wounds of Patients Attending Berekum Holy Family Hospital in Ghana. *Journal of Advances in Medicine and Medical Research*. https://doi.org/10.9734/jammr/2018/v28i1230042

23. Fareed Majeed, **Isaac Dadzie**, Gordon Foli, Kwaku Tekyi Kyeremeh (2019). Structurally Controlled Prospectivity Map of the Sefwi Volcanic Orogenic Belt of Ghana.
24. **Isaac Dadzie**, Elvis Quansah, Mavis Puopelle Dakorah, Victoria Abiade, Ebenezer Takyi-Amuah, Richmond Adusei (2019). The Effectiveness of Dipstick for the Detection of Urinary Tract Infection. *Canadian Journal of Infectious Diseases and Medical Microbiology*. https://doi.org/10.1155/2019/8642628
25. Desmond Acheampong, Richard Opoku, Alex Boye, Daniel Agyirifo, **Isaac Dadzie**, Prince Barnie, Godwin Kwakye-Nuako, Francis Nyandzi (2018). Diagnosis and Treatment Outcome of Smear Positive Pulmonary Tuberculosis: Retrospective study in Kpando Municipal, Ghana. *Journal of Advances in Medicine and Medical Research*. https://doi.org/10.9734/jammr/2018/40156
26. Bernard Konadu Amoah, **Isaac Dadzie**, Kwaku Takyi-Kyeremeh (2018). Integrating gravity and magnetic field data to delineate structurally controlled gold mineralization in the Sefwi Belt of Ghana. *Journal of Geophysics and Engineering*. https://doi.org/10.1088/1742-2140/aaa7b2
27. **Isaac Dadzie**, Shemau Muniru, Patatrick Adu, Obed Cudjoe (2018). Nucleic Acid Amplification Testing Detects HIV Transmission Risk in Serologically-Tested Blood Donor Units. *JOURNAL OF CLINICAL AND DIAGNOSTIC RESEARCH*. https://doi.org/10.7860/jcdr/2018/36141.12056
28. Deasmond O. Acheampong, Christian K. Adokoh, Paulina Ampomah, Daniel S. Agyirifor, **Isaac Dadzie**, Francis A. Ackah, Ernest A. Asiamah (2017). Bispecific Antibodies (bsAbs): Promising Immunotherapeutic Agents for Cancer Therapy. *Protein and Peptide Letters*. https://doi.org/10.2174/0929866524666170120095128
29. **Isaac Dadzie** (2015). 5′-UTR of malS Increases the Invasive Capacity of Salmonella Enterica Serovar Typhi by Influencing the Expression of Bax. *Future Microbiology*. https://doi.org/10.2217/fmb.15.12
30. **Isaac Dadzie** (2012). Fis Is Essential for the Stability of Linear Plasmid pBSSB1 and Affects the Motility of Salmonella enterica Serovar Typhi. *PLoS One*. https://doi.org/10.1371/journal.pone.0037462
31. DNA Tagoe, SE Baidoo, **I Dadzie**, D Tengey, C Agede (2011). Potential sources of transmission of hospital acquired infections in the volta regional hospital in Ghana. *Ghana Medical Journal*. https://doi.org/10.4314/gmj.v45i1.68918
32. Samuel Essien Baidoo, **I Dadzie** (2010). A study of bacterial contamination of Ghanaian currency notes in circulation. *The Internet Journal of Microbiology*. https://www.academia.edu/download/49475132/A_study_of_bacterial_contamination_of_Gh20161009-19258-4cmzyj.pdf
33. S Baidoo, **I Dadzie**, H Nyarko (2009). A comparison of the antimicrobial (antifungal) properties of garlic, ginger and lime on Aspergillus flavus, Aspergillus niger and Cladosporium herbarum using organic and water …. *The Internet Journal of Tropical Medicine*. https://www.academia.edu/download/91405035/7275.pdf
34. **I Dadzie** (2008). Geoid Determination for Effective Integration of GPS-Derived Data into Ghana National Coordinate System. *Integrating Generations FIG Working Week, Stockholm, Sweden*. https://scholar.google.com/scholar?cluster=13993807209159481618&hl=en&oi=scholarr
35. Yonghai Chu, Jiancheng Li, Weiping Jiang, Xiancai Zou, Chunbo Fan, Xinyu Xu, **Isaac Dadzie** (2008). Monitoring Level Fluctuations of the Lakes in the Yangtze River Basin from Radar Altimetry. *Terrestrial Atmospheric and Oceanic Sciences*. https://doi.org/10.3319/tao.2008.19.1-2.63(sa)
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37. **Isaac Dadzie** (2008). 根据多卫星高度计海面高数据推算南中国海及菲律宾海域重力异常 (英文). *Geo-Spatial Information Science*. https://scholar.google.com/scholar?cluster=10862363945262685592&hl=en&oi=scholarr
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