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RESEARCH

Areas: Modeling and Simulation · Public Health, Environmental and Occupational Health · Education · Applied Mathematics · Biomedical Engineering · Computational Mechanics

RESEARCH SUMMARY

278	4,940	41	109	2.11	29%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 278 publications listed below, 2014–2026. Field-weighted impact is the mean over the 278 works scored for it; 1.00 is the world average for works of the same field, type and year. 80 of the 278 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 273

1. Kwame Osei, Ebenezer Kwesi Lotey, **Ebenezer Bonyah**, Yarhands Dissou Arthur (2026). An Error Analysis of Students' Algebraic Problem-Solving among Senior High School Students in Ghana. *EIKI Journal of Effective Teaching Methods*. https://doi.org/10.59652/fz3sdg72
2. Muhammad Sajjad Shabbir, Nayyab Arif, Rehan Rahim, **Ebenezer Bonyah**, Afraz Hussain Majeed (2026). Bifurcation analysis and chaos control in discrete chemical systems: Co-Dimension one and two insights from the Degn-Harrison model. *Measurement and Control*. https://doi.org/10.1177/00202940261446465
3. Sudirman Sudirman, **Ebenezer Bonyah**, Jenisus O. Dejarlo, Runisah Runisah, Nandang Nandang, Rosyadi Rosyadi, Mochammad Taufan, Anzzal Ibrahim (2026). Connection ethnomathematics and ethnomodeling in the bocah sukerta traditional ceremony, Indonesia. *Journal of Education and Learning (EduLearn)*. https://doi.org/10.11591/edulearn.v20i2.21872
4. Meri Meri, Endang Wahyuningrum, Sudirman Sudirman, **Ebenezer Bonyah** (2026). Contextual teaching and learning assisted by E-modules: Enhancing mathematical communication ability and learning motivation on the Pythagorean Theorem. *Panicgogy International Journal*. https://doi.org/10.59965/pij.v4i1.313
5. Korsi K. Agbozo, **Ebenezer Bonyah** (2026). Developing Problem-Posing Efficacy in Preservice Mathematics Teachers: A Competency Intervention Study. *INTERNATIONAL JOURNAL OF MATHEMATICS AND COMPUTER RESEARCH*. https://doi.org/10.5281/zenodo.19466598
6. Mine Yurtoğlu, Dilara Yapışkan, **Ebenezer Bonyah**, Beyza Billur İskender Eroğlu, Derya Avcı, Delfim F. M. Torres (2026). Dynamic Analysis and Optimal Prevention Strategies for Monkeypox Spread Modeled via the Mittag–Leffler Kernel. *Fractal and Fractional*. https://doi.org/10.3390/fractalfract10010044
7. Korsi K. Agbozo, **Ebenezer Bonyah**, Francis O. Boateng (2026). ENHANCING SUBJECT MATTER KNOWLEDGE IN PRESERVICE MATHEMATICS TEACHERS: TRANSFORMING MATHEMATICS EDUCATION THROUGH PROBLEM-POSING INTERVENTIONS. *European Journal of Education Studies*. https://doi.org/10.46827/ejes.v13i1.6470
8. WILLIAM YAW AWUAH, SETH KWAME OSEI, **EBENEZER BONYAH**, FRANCIS OHENE BOATENG (2026). EXPLORING MATHEMATICS EMBEDDED IN THE CULTURAL ACTIVITIES OF SENIOR HIGH SCHOOLS IN THE JAMAN SOUTH MUNICIPALITY. *International Journal of Social Sciences and Management Review*. https://doi.org/10.37602/ijssmr.2026.9411

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10. Hodiyanto Hodiyanto, Abdillah Abdillah, Gemi Susanti, Rodríguez-Nieto Camilo Andrés, **Ebenezer Bonyah** (2026). Exploration of Ethnomathematics in the Tahlilan Tradition of Sungai Malaya: Geometry and Beyond. *RANGE Jurnal Pendidikan Matematika*. https://doi.org/10.32938/jpm.v8i1.10743

11. Siti Suprihatiningsih, Rizki Kurniawan Rangkuti, Muhammad Firman Annur, Erwin Erwin, Irvan Irvan, **Ebenezer Bonyah** (2026). Exploring Gender Differences in Spatial Reasoning: Analyzing Hyperbolic Problem-Solving Skills Among University Students. *Mosharafa Jurnal Pendidikan Matematika*. https://doi.org/10.31980/mosharafa.v15i1.3464

12. Melis Rosdiani, Yusup Maulana, Angra Meta Ruswana, Nia Kania, **Ebenezer Bonyah** (2026). Historical Mathematical Learning Framework: A Theory-Building Conceptual Model for Advancing Conceptual Understanding, Mathematical Reasoning, and Scientific Literacy. *International Journal of Contemporary Studies in Education (IJ-CSE)*. https://doi.org/10.56855/ij-cse.v5i2.2376

13. David Agyemang, Francis Ohene Boateng, **Ebenezer Bonyah** (2026). Investigating the moderate effect of school location and gender on the relationship between school type and students' mathematics achievement. *Journal of Mathematics and Science Teacher*. https://doi.org/10.29333/mathsciteacher/18122

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18. Festus Yelewere, **Ebenezer Bonyah**, Benjamin Adu Obeng (2026). The Impact of GeoGebra-Assisted Instruction on Students' Performance in Geometric Construction: Exploring Teacher Beliefs and Classroom Practices. *International Journal of Mathematics and Mathematics Education*. https://doi.org/10.56855/ijmme.v4i1.1785

19. Thomas Gona Akwasi Dimaweh, **Ebenezer Bonyah**, Benjamin Adu Obeng (2026). The Impact of Inductive Teaching on Pre-Tertiary Students' Academic Performance in Solving Circle Theorem Problems. *International Journal of Mathematics and Mathematics Education*. https://doi.org/10.56855/ijmme.v4i1.1782

20. Sujipriya A, **Ebenezer Bonyah**, R. Jeyachandhiran (2026). Workload Resets and Vacation-Driven Congestion in Continuous-Flow Service Systems: A Steady-State Fluid Queueing Analysis under Catastrophe. *Scientific African*. https://doi.org/10.1016/j.sciaf.2026.e03444

21. Shiv Mangal, **Ebenezer Bonyah**, Ebenezer Appiagyei, F. Fatmawati (2025). A novel fractional-order modelling the transmission dynamics of Buruli ulcer with treatment. *Franklin Open*. https://doi.org/10.1016/j.fraope.2025.100396

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27. Willy Ruben Sihombing, Kurnia Putri Sepdikasari Dirgantoro, **Ebenezer Bonyah** (2025). Application of GeoGebra-Assisted Problem-Based Learning Model to Strengthen the Learning Interest of Eighth Grade Junior High School Students. *International Journal of Geometry Research and Inventions in Education (Gradient)*. https://doi.org/10.56855/gradient.v2i02.1742
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30. Sandeep Dwarkanth Pande, Pala Kalyani, S Nagendram, Ala Saleh Alluhaidan, G Harish Babu, Sk Hasane Ahammad, Vivek Kumar Pandey, G Sridevi, Abhinav Kumar, **Ebenezer Bonyah** (2025). Comparative analysis of the DCNN and HFCNN Based Computerized detection of liver cancer. *BMC Medical Imaging*. https://doi.org/10.1186/s12880-025-01578-4
31. Nidhal Ali, Rassim Darazirar, Sawsan Abed, Ahmed Mohsen, **Ebenezer Bonyah** (2025). Critical waves in a nonlocal dispersion delayed susceptible-infected-confined-quarantined-recovered outbreak model with general incidence function. *Jambura Journal of Biomathematics (JJBM)*. https://doi.org/10.37905/jjbm.v7i1.15
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33. Agyei, Evelyn, **Bonyah, Ebenezer**, Appiagyei, Ebenezer (2025). Enhancing pre-service teachers' Attitudes and Self-efficacy in Geometry instruction through Mathematical Modeling. *DergiPark (Istanbul University)*.
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