

Dr. Michael Oteng-Peprah

Senior Lecturer · Department of Chemistry
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RESEARCH

Interests Water and Wastewater Treatment and Reuse · Water Supply and Quality Monitoring · Sanitation Related Behaviour Study · Process Monit

Areas Water Science and Technology · Nutrition and Dietetics · Waste Management and Disposal · Pollution · Biomedical Engineering · Environmental Engineering

RESEARCH SUMMARY

26	775	9	9	2.44	22%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 26 publications listed below, 2013–2026. Field-weighted impact is the mean over the 23 works scored for it; 1.00 is the world average for works of the same field, type and year. 5 of the 23 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Lecturer Department of Water and Sanitation, University of Cape Coast, Cape Coast, Ghana	2012–present
Guest Scholar Health Promotion, Maastricht University, Maastricht, Netherlands	2016–2020
Golden Star Resources, Akyempim Metallurgy, Akyempim, Ghana	2004–2005

EDUCATION AND QUALIFICATIONS

PhD Universiteit Maastricht, Maastricht, Netherlands	2016–2020
Dip RWTH Aachen University, Aachen, Germany	2009
MSc. Mineral and Environmental Engineering Process Automation, Aalto University, Helsinki, Finland	2008–2010
MEng Mining and Geology Wroclaw University of Environmental and Life Sciences, Wrocław, Poland	2008–2010
Dip University of Exeter Camborne School of Mines, Penryn, United Kingdom	2008
MSc Water and Sanitation Civil Engineering, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana	2006–2008
BSc Mining and Mineral Engineering, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana	2000–2004

DISTINCTIONS, MEMBERSHIPS AND SERVICE

Member National Society of Black Engineers, Alexandria, United States	2004–present
Member Canadian Institute of Mining, Metallurgy and Petroleum, Westmount, Canada	2004–present

PUBLICATIONS

Journal articles 24

1. Diyoh Frank, Adamu Ramatu, Daniel Amakye, Prempeh Agyemang Emmanuel, **Michael Annor Peprah**, Barbara Nhyira Dadson, Prince Peprah, Williams Agyemang-Duah (2026). Additional file 1 of Sociodemographic, functional disability and severe illness predict extreme fatigue among older adults in Ghana. *Figshare*. <https://doi.org/10.6084/m9.figshare.32052454.v1>
2. Patrick Ziem Wellu, Adawu Redeemer, **Michael Annor Peprah**, Daniel Amakye, Emmanuel Prempeh Agyemang, Prince Peprah, Williams Agyemang-Duah (2026). Catastrophic health expenditure and household food insecurity among older adults with health conditions in Ghana: a cross-sectional analysis. *BMC Public Health*. <https://doi.org/10.1186/s12889-026-28188-1>
3. Diyoh Frank, Adamu Ramatu, Daniel Amakye, Prempeh Agyemang Emmanuel, **Michael Annor Peprah**, Barbara Nhyira Dadson, Prince Peprah, Williams Agyemang-Duah (2026). Sociodemographic, functional disability and severe illness predict extreme fatigue among older adults in Ghana. *Discover Public Health*. <https://doi.org/10.1186/s12982-026-01918-x>
4. Isaac Kwesi Nooni, Shuxiao Lu, Fengyi Liu, Faustin Katchele Ogou, Abdoul Aziz Saidou Chaibou, Nana Agyemang Prempeh, Khant Hmu Paing, Thomas Atta-Darkwa, Samuel Koranteng Fianko, **Michael Oteng-Peprah**, Mawuli Dzapkpasu, Zhongfang Jin, Jiao Lu (2025). Historical and Future Projection of Wind Speed Based on NEX-GDDP CMIP6 Over Equatorial Africa. *Earth Systems and Environment*. <https://doi.org/10.1007/s41748-025-00747-3>
5. Abdalla Suhuyini Salifu, Michael Commeh, Freda Ampaw, **Michael Oteng-Peprah**, Benjamin Agyei-Tuffour, David Dadoo-Arhin (2025). Mechanical Properties and Performance Characteristics of Shea Kernel–Groundnut Shell–Derived Bio-Briquettes for Rural Energy Applications. *Advances in Materials Science and Engineering*. <https://doi.org/10.1155/amse/6779168>
6. David Adu-Poku, Selina Ama Saah, Patrick Opere Sakyi, Charles Kwame Bandoh, Benjamin Agyei-Tuffour, David Azanu, **Michael Oteng-Peprah**, Issifu Hawawu, Samuel Azibere, Kwaku Amaning Affram (2024). Acid-Activated Biochar for Efficient Elimination of Amoxicillin From Wastewater. *Journal of Chemistry*. <https://doi.org/10.1155/2024/3648098>
7. Abdalla Suhuyini Salifu, Michael Commeh, Freda Ampaw, **Michael Oteng-Peprah**, Benjamin Agyei-Tuffour, David Dadoo-Arhin (2024). Physicochemical properties of pyrolyzed shea kernel and groundnut shells for alternative energy applications. *Cogent Engineering*. <https://doi.org/10.1080/23311916.2024.2427253>
8. **Michael Oteng-Peprah**, Benjamin Agyei-Tuffour, Maame Adwoa Animpong, Frank Nana Osei, Deborah Oyiye Mensah, Mike Agbesi Acheampong (2023). Adsorptive removal of biochemical oxygen demand (BOD5) and chemical oxygen demand (COD) from greywater using activated carbon prepared from tropical almond and palm kernel shells. *Universal Journal of Carbon Research*. <https://doi.org/10.37256/ujcr.1220233945>
9. **Michael Oteng-Peprah**, Peter Appiah Obeng, Mike Agbesi Acheampong, Michael Akrofi Anang (2023). Fixed-bed column sorption kinetic rates on the removal of both biochemical oxygen demand (BOD5) and chemical oxygen demand (COD) in domestic greywater by using palm kernel activated carbon. *Water Practice & Technology*. <https://doi.org/10.2166/wpt.2023.097>
10. Richmond Opoku, Solomon Kwesi Ackon, Emmanuel Kumah, Charles Owusu-Aduomi Botchwey, Nana Esi Appiah, Shadrach Korsah, **Michael Peprah** (2023). Self-care behaviors and associated factors among individuals with type 2 diabetes in Ghana: a systematic review. *BMC Endocrine Disorders*. <https://doi.org/>

11. Peter Appiah Obeng, Eric Awere, Panin Asirifua Obeng, **Michael Oteng-Peprah**, Albert Kaabieredomo Mwinsuubo, Alessandra Bonoli, Sharon Amanda Quaye (2023). Usage and Microbial Safety of Shared and Unshared Excreta Disposal Facilities in Developing Countries: The Case of a Ghanaian Rural District. *Sustainability*. <https://doi.org/10.3390/su151310282>
12. Peter Appiah Obeng, Eric Awere, Panin Asirifua Obeng, **Michael Oteng-Peprah**, Samuel Barnie (2022). Wind Speed Thresholds for Adjusting Conventional Design Criteria for the Ventilated Improved Pit Latrine without Compromising Odour Control. *Journal of Engineering Research and Reports*. <https://doi.org/10.9734/jerr/2022/v23i12790>
13. Martha Osei-Marfo, **Michael Oteng-Peprah**, Esi Awuah, Nanne de Vries (2021). Characterisation of Wastewater and Treatment Efficiency of Biogas Plants: Effluent Discharge Quality. *Journal of Energy Research and Reviews*. <https://doi.org/10.9734/jenrr/2021/v7i130181>
14. Benjamin Agyei-Tuffour, Joshua Tuah Asante, Emmanuel Nyankson, David Dodoo-Arhin, **Michael Oteng-Peprah**, Salifu T. Azeko, Ali Salifu Azeko, Oluwaseun K. Oyewole, Abu Yaya (2021). Comparative analyses of rice husk cellulose fiber and kaolin particulate reinforced thermoplastic cassava starch biocomposites using the solution casting technique. *Polymer Composites*. <https://doi.org/10.1002/pc.26052>
15. Ebenezer Annan, Emmanuel Nyankson, Benjamin Agyei-Tuffour, Stephen Kofi Armah, George Nkrumah-Buandoh, Joanna Aba Modupeh Hodasi, **Michael Oteng-Peprah** (2021). Synthesis and Characterization of Modified Kaolin-Bentonite Composites for Enhanced Fluoride Removal from Drinking Water. *Advances in Materials Science and Engineering*. <https://doi.org/10.1155/2021/6679422>
16. Albert Ebo Duncan, **Michael Oteng Peprah**, Martha Osei Marfo (2020). Unregulated Hand Dug Wells and Their Quality Threat: A Case Study in Cape Coast Metropolis. *OALib*. <https://doi.org/10.4236/oalib.1106482>
17. Michael A. Anang, **Michael Oteng-Peprah**, Kwasi Opoku-Boadu (2019). Extraction and Characterisation of African Star Apple (*Chrysophyllum albidum*) Seed Oil and the Adsorptive Properties of the Fruit Shell in Ghana. *International Journal of Food Science*. <https://doi.org/10.1155/2019/4959586>
18. **M. Oteng-Peprah**, N. de Vries, M.A. Acheampong (2019). Households' willingness to adopt greywater treatment technologies in a developing country – Exploring a modified theory of planned behaviour (TPB) model including personal norm. *Journal of Environmental Management*. <https://doi.org/10.1016/j.jenvman.2019.109807>
19. **Michael Oteng-Peprah**, Mike Agbesi Acheampong, Nanne K. DeVries (2019). Predicting greywater reuse for potable and nonpotable purposes in a developing country – a theory of planned behaviour approach. *Desalination and Water Treatment*. <https://doi.org/10.5004/dwt.2019.23414>
20. **Michael Oteng-Peprah**, Mike Agbesi Acheampong, Nanne K. deVries (2018). Greywater Characteristics, Treatment Systems, Reuse Strategies and User Perception—a Review. *Water Air & Soil Pollution*. <https://doi.org/10.1007/s11270-018-3909-8>
21. **M. Oteng-Peprah**, N.K. de Vries, M.A. Acheampong (2017). Greywater characterization and generation rates in a peri urban municipality of a developing country. *Journal of Environmental Management*. <https://doi.org/10.1016/j.jenvman.2017.10.068>
22. Albert Ebo Duncan, **Michael Oteng-Peprah**, Martha Osei Marfo, Gifty Rhodalyn Tetteh, Alexander Opoku (2015). GROUNDWATER QUALITY ANALYSIS ON SELECTED HAND-DUG WELLS IN THE CAPE COAST METROPOLIS, GHANA: A CASE STUDY OF ABURA. *Journal of Basic & Applied Sciences*.
23. Michael Akrofi Anang, Samuel Kofi Tulashie, **Michael Oteng-Peprah**, Kankam Boadu, A. K. Wofesor (2015). Physico-Chemical Assessment of the Quality of Water of the Amansure River in the Western Region of Ghana. *Journal of Basic & Applied Sciences*.
24. **Michael Oteng-Peprah** (2013). Application of the grade-recovery curve in the batch flotation of Polish copper ore. *Minerals Engineering*. <https://www.sciencedirect.com/science/article/pii/S0892687513001386>

Reports 2

1. **M OTENG-PEPRAH** (2014). Rainwater harvesting poten. c© WEDC. <https://ir.ucc.edu.gh/server/api/core/bitstreams/b33ed5c5-7aa8-4a62-bbd4-2d2438999a29/content>
2. **Michael Oteng-Peprah, A Duncan** (2014). Rainwater harvesting potential of University of Cape Coast campus: a GIS approach. *Loughborough University*. https://repository.lboro.ac.uk/articles/conference_contribution/Rainwater_harvesting_potential_of_University_of_Cape_Coast_campus_a_GIS_approach/9595748