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RESEARCH

Interests	Petrochemistry · biochemical engineering · oil refining
Areas	Mechanical Engineering · Biomedical Engineering · Plant Science · Automotive Engineering · Computer Networks and Communications · Ecology

RESEARCH SUMMARY

14	101	5	4	2.48	30%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 14 publications listed below, 2017–2024. Field-weighted impact is the mean over the 10 works scored for it; 1.00 is the world average for works of the same field, type and year. 3 of the 10 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Kwame Nkrumah University of Science and Technology
Kumasi, Ghana

PUBLICATIONS

Journal articles 11

1. **Emmanuela Kwao-Boateng**, Emmanuel Godwin Ankudey, Lawrence Darkwah, Kwabena Owusu Danquah (2024). Assessment of diesel fuel quality. *Heliyon*. https://doi.org/10.1016/j.heliyon.2024.e24733
2. **E Kwao-Boateng**, KO Danquah, EG Ankudey, L Darkwah (2024). Desulfurization Capabilities of Indigenous Bacteria Isolates for Enhanced Sulfur Removal. *Journal of Chemical and Petroleum Engineering*. https://jchpe.ut.ac.ir/article_88267.htmlhttps://jchpe.ut.ac.ir/article_97510.html
3. **Emmanuela Kwao-Boateng**, Emmanuel Godwin Ankudey, Lawrence Darkwah, Kwabena Owusu Danquah, Derrick Boateng Kontoh (2024). Evaluating the Health and Environmental Consequences of Sulphur-Related Diesel Emissions. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v1i1.1s
4. **Emmanuela Kwao-Boateng**, Mishael Agyei-Boamah, Isaac Nyadjor, Anthony Nana Prempeh Agyemang, Mariam Hanson (2023). Assessing coconut milk as an alternative to cow milk in Ghanaian cuisines. *Journal of the Ghana Institution of Engineering (JGhIE)*. https://doi.org/10.56049/jghie.v23i2.11
5. Patrick Opoku-Mensah, James Nana Gyamfi, Adjei Domfeh, Emmanuel Awarikabey, **Emmanuela Kwao-Boateng** (2023). Assessment of the Conventional Acid-Clay Method in Reclaiming Waste Crankcase Lubricating Oil. *Advances in Tribology*. https://doi.org/10.1155/2023/6567607
6. **Emmanuela Kwao-Boateng**, Manasseh Agbedam, Anthony Nana Prempeh Agyemang, Enoch Acquah, Kobina Akyea Ofori, Augustine Teiko Tagoe (2023). Comparative analysis of palm kernel and waste cooking oils for biodiesel production as an alternative fuel to conventional diesel fuel. *Journal of the Ghana Institution of Engineering (JGhIE)*. https://doi.org/10.56049/jghie.v23i2.8
7. Emmanuel Awarikabey, Mark Brako Frempong Berko, **Emmanuela KwaoBoateng**, Martin Yeboah Woode, Andrew Nyamful, Eric Enzula Bayari, Eric Selorm Agorku (2022). Mass Balance and Quality Assessment of

Potash from Cocoa Husk Ash from Ghana. *International Journal of Science and Research (IJSR)*. https://doi.org/10.21275/sr22326004515

8. **Emmanuela Kwao-Boateng**, James Nana Gyamfi (2022). PREMIX FUEL IN GHANA: The smuggling, diversion and hoarding activities impeding fishing activities among fisherfolks. *Academia Letters*. https://doi.org/10.20935/al4917
9. **Emmanuela Kwao-Boateng**, Benjamin Afotey, MAD Rockson (2022). Petrol Filling Station Safety Assessment and Fire Safety Knowledge of Fuel Pump Attendants. *Journal of Ghana Science Association*.
10. **Emmanuela Kwao-Boateng**, Terza Anokye-Poku, Anthony N. P. Agyemang, Michael Kwadwo Fokuo (2022). Re-refining Used Engine Oil in Ghana Using Solvent Extraction and Acid-Clay Treatment. *International Journal of Chemical Engineering*. https://doi.org/10.1155/2022/6344409
11. **E Kwao–Boateng** (2017). Emulsifier Effects on the Stability of Different Wax Emulsions. *Chemical and Process Engineering Research*.

Book chapters 2

1. Benjamin Appiah Osei, **Emmanuela Kwao-Boateng** (2023). Critical Review on Internet of Things (IoT): Evolution and Components Perspectives. *Artificial intelligence*. https://doi.org/10.5772/intechopen.109283
2. Tuan Thanh Dang, Thi Le Anh Nguyen, Khursheed B. Ansari, Van Ha Nguyen, Nguyen Thanh Binh, Thi To Nga Phan, Thanh Huyen Pham, Dinh Thi Thuy Hang, Prince Nana Amaniampong, **Emmanuela Kwao-Boateng**, Quang Thang Trinh (2021). Perovskite materials as photocatalysts: Current status and future perspectives. *Elsevier eBooks*. https://doi.org/10.1016/b978-0-12-823007-7.00009-2

Reports 1

1. **Emmanuela Kwao-Boateng** (2021). Nanostructured photocatalysts. *Elsevier*. https://scholar.google.com/scholar?cluster=5187722020452361 33&hl=en&oi=scholarr