Mary Mensah

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ORCID 0000-0002-5040-9141 · Chem4Energy- a consortium under the he Royal Society-Department for International Development (RS-DFID) Africa Capacity Building Initiative is a programme to develop collaborative research consortia between scientists in sub-Saharan Africa and scientists in the UK. chem4energy.org/ghana.html · Profile knust.peerford.com/staff/5ac9be2c-e01d-4d68-9cc5-5a50773fc051

RESEARCH

Interests	computational chemistry · homogenous catalysis
Areas	Biomedical Engineering · Education · Organic Chemistry · Biotechnology · Environmental Chemistry · Inorganic Chemistry

RESEARCH SUMMARY

8	66	4	2	0.88	0%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 8 publications listed below, 2016–2026. Field-weighted impact is the mean over the 8 works scored for it; 1.00 is the world average for works of the same field, type and year. 0 of the 8 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

PhD candidate 2018–present
chemistry, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

EDUCATION AND QUALIFICATIONS

Master of Philosophy Physical Chemistry 2015–2018
Chemistry, Kwame Nkrumah University of Science and Technology College of Science, Kumasi, Ghana

Bachelor of Science 2010–2014
Chemistry, Kwame Nkrumah University of Science and Technology College of Science, Kumasi, Ghana

PUBLICATIONS

Journal articles 8

1. **Mary Mensah**, Nana Yaw Asiedu, Jonatham Iggo, Konstantin Luzyanin, David Dodoo-Arhin, Jianliang Xiao (2026). Aqueous-phase depolymerization of waste cocoa pod husk lignin to produce aromatic monomers using terpyridine-based complex catalysts and advanced spectroscopic techniques. *Microchemical Journal*. https://doi.org/10.1016/j.microc.2026.117632
2. Marietjie J. Ungerer, Evans Adei, Theopolina Amakali, Cecil H. Botchway, Likius S. Daniel, James Darkwa, Nelson Y. Dzade, Foster Mbaiwa, **Mary Mensah**, Maipelo Nyepetsi and 11 others (2024). Chem4Energy: a consortium of the Royal Society Africa Capacity-Building Initiative. *Interface Focus*. https://doi.org/10.1098/rsfs.2024.0001
3. **Mary Mensah**, Richard Tia, Evans Adei, Nora H. de Leeuw (2023). C-H versus C-O Addition: A DFT Study of the Catalytic Cleavage of the β-O-4 Ether Linkage in Lignin by Iridium and Cobalt Pincer Complexes. *Catalysts*. https://doi.org/10.3390/catal13040757
4. **Mary Mensah**, Richard Tia, Evans Adei, Nora H. de Leeuw (2022). A DFT Mechanistic Study on Base-

Catalyzed Cleavage of the β-O-4 Ether Linkage in Lignin: Implications for Selective Lignin Depolymerization. *Frontiers in Chemistry*. https://doi.org/10.3389/fchem.2022.793759

5. Isaac Awortwe, Regine Kwaw, Naa Korkor Larbi-Appaih, **Mary Nana Aba Mensah** (2022). An Assessment of Safety Conditions in Kindergarten Schools in Ghana. *Open Journal of Educational Research*. https://doi.org/10.31586/ojer.2022.539
6. **Mary Nana Aba Mensah** (2022). An evaluation of Monitoring and Supervision in the Junior High Schools Curriculum Delivery in Ghana. *Open Journal of Educational Research*. https://doi.org/10.31586/ojer.2022.529
7. **Mary Mensah**, Nana Yaw Asiedu, Fabrice Abunde Neba, Prince Nana Amaniampong, Patrick Boakye, Ahmad Addo (2020). Modeling, optimization and kinetic analysis of the hydrolysis process of waste cocoa pod husk to reducing sugars. *SN Applied Sciences*. https://doi.org/10.1007/s42452-020-2966-y
8. **Mary Mensah**, Evans Elikem Amepetey, Richard Tia, Evans Adei (2016). 1,3-Dipolar [3 + 2] cycloaddition reactions of N,C,C-trisubstituted nitrones with ring-acceptor methylenecyclopropanes: a computational study. *SpringerPlus*. https://doi.org/10.1186/s40064-016-3758-0