Curriculum Vita
December, 2025

Instructor: Emmanuella Anang (Ph.D)
Academic Department: Biological and Environmental Sciences

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EDUCATION

Doctor of Philosophy in Mining Engineering
Wuhan University of Science and Technology, 2022

Master of Science in Environmental Science
Kwame Nkrumah University of Science and Technology, 2019

Bachelor of Science in Environmental Science
Kwame Nkrumah University of Science and Technology, 2017

TEACHING EXPERIENCE

2024 – 2025, Instructor
Central Michigan University

2021 – 2022, Substitute Lecturer
Wuhan University of Science and Technology

2017 – 2018, Teaching Assistant
Kwame Nkrumah University of Science and Technology

PUBLICATIONS

1. **Anang E**[†], Busari A. Molecularly imprinted polymer for the removal of nutrient from water; synthesis, application, performance and limitation. *Water Science & Technology*. 2025. Accepted.

2. **Anang E**†, Jordan Myers, James Dusenbury, Bradley Fahlman, Anja Mueller, Itzel Marquez. Molecularly imprinted polymer for ammonia removal from water; adsorption kinetics and binding mechanism. Environmental Science & Technology, Water. 2025. Accepted.
3. **Anang E**†, Hong L, Fan X. Compositional transformation of Ni^{2+} and Fe^{0} during the removal of Ni^{2+} by nanoscale zero-valent iron and the implications to groundwater remediation. *Water Science & Technology.* 2023 Nov 1;88(9):2409-22.
4. **Anang E**†, Tei M, Antwi AB, Aduboffour VK, Anang B. Assessment of groundwater and surface water quality in a typical mining community: application of water quality indices and hierarchical cluster analyses. *Journal of Water and Health*. 2023 Jul 1;21(7):925-38.
5. **Anang E**†, Lawson BW, Ankrah Aduboffour VK, Tei M, Antwi AB. Mercury and lead pollution in rivers in Ghana: geo-accumulation index, contamination factor, and water quality index. *Water Practice and Technology*. 2023 May 1;18(5):1273-83.
6. **Anang E**†, Hong L, Fan X. An Insight into the Fate of Cu^{2+} and Zero Valent Iron During Removal of Cu^{2+} by Nanoscale Zero Valent Iron. *Water emerging Contaminants and Nanoplastics Available at SSRN* 4340750. 2023.
7. Liang J, Li Z, **Anang E***, Liu H, Fan X. Coupling Removal of P-Chloronitrobenzene and Its Reduction Products by Nano Iron Doped with Ni and FeOOH (nFe/Ni-FeOOH). *Materials*. 2022 Mar 4;15(5):1928.
8. **Anang E**†, Tei M, Aduboffour VK. Enhanced arsenic removal using lateritic bauxite modified by heating and blending. *Water Science and Technology*. 2022 Mar 1;85(5):1568-80.
9. Liang J, Wang J, Liu H, **Anang E***, Fan X. Experimental Identification of the Roles of Fe, Ni and Attapulgite in Nitroreduction and Dechlorination of p-Chloronitrobenzene by Attapulgite-Supported Fe/Ni Nanoparticles. *Materials*. 2022; 15(3):1254.
10. **Anang E**†, Hong L, Fan X, Asamoah EN. Attapulgite supported nanoscale zero-valent iron in wastewater treatment and groundwater remediation: synthesis, application, performance and limitation. *Environmental Technology Reviews*. 2022 Jan 1;11(1):1-7.
11. Aduboffour VK, Bissah Z, Anang E*. Investigating the Effect of Communication Strategy and Commitment on Incident Reporting. Journal of Industrial Safety Engineering. 2022; 9(1): 21–29p.

12. Fan X, Liu H, **Anang E***, Ren D. Effects of electronegativity and hydration energy on the selective adsorption of heavy metal ions by synthetic NaX zeolite. *Materials.* 2021 Jan;14(15)4066.
13. Cheng S, Liu H, **Anang E***, Li C, Fan X. Enhanced As (III) sequestration using nanoscale zero-valent iron modified by combination of loading and sulfidation: characterizations, performance, kinetics and mechanism. *Water Science and Technology*. 2021 May 11;8(1):1-15.
14. **Anang E**†, Liu H, Fan X, Zhao D, Gong X. Compositional evolution of nanoscale zero valent iron and 2, 4-dichlorophenol during dechlorination by attapulgite supported Fe/Ni nanoparticles. *Journal of Hazardous Materials*. 2021 Jun 15;412:125246-73.
15. **Anang E**†, Lawson BWL. Levels of mercury and lead in selected rivers in the Kumasi Metropolis. Knustdspace. July, 2021 (doctoral dissertation).

RESEARCH GRANTS AND AWARDS

Award

1. Waters Corporation PFAS Workshop Participant Award, Waters Corporation, 2024
2. Postdoc to Faculty Conference Travel Award, American Chemical Society, 2023
3. University Outstanding Doctoral Candidate, Wuhan University of Science and Technology, 2021
4. Hubei Academic Excellence Scholarship, Wuhan University of Science and Technology, 2019 – 2022

Grant

2024 – 2025, Safe water for all: Novel adsorbent and membrane materials for water and wastewater treatment, Automotive Research Center, Role as a contributor.