

Martin Luther Yeboah (Ph.D.)

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Education

- ❖ Ph.D. Mineral Processing Engineering (2022), Shandong University of Science & Technology, China
- ❖ M.Phil. Chemical Engineering (2018), Shandong University of Science & Technology, China
- ❖ B.Sc. Materials Engineering (2013), KNUST, Ghana

Experience

- ❖ March 2020- Present: **Teacher (Chemistry)**, Head of Science Department, Only Believe Senior High School (OBSTECH), Kukurantumi- Akim, Eastern Region
- ❖ September, 2017- June, 2018: **Undergraduate Dissertation Supervisor**, Shandong University of Science and Technology, Qingdao, China
- ❖ September, 2016-June, 2017: **Teaching and Mentoring**-Teaching Assistant (T.A) for undergraduate courses, Shandong University of Science and Technology, Qingdao, China
- ❖ August-September, 2014: **Acting Packing Plant Engineer**, Company: Ghana Cement Company, Tema Plant, Ghana
- ❖ November, 2013-July, 2014: **National Service Personnel (Milling plant)**: Ghana Cement Company, Tema Plant, Ghana

Specialization

- ❖ Materials Chemistry
- ❖ Materials Characterization
- ❖ Mineral Processing
- ❖ Physical metallurgy
- ❖ Extractive metallurgy

Current Research Interest

- ❖ Development of magnesium-based hydrogen storage materials

- ❖ Development of functionalized carbon materials from waste for adsorptive application
- ❖ Beneficiation wastewater treatment
- ❖ Fabrication of porous materials

Teaching

- ❖ Senior High School courses handled: Chemistry and Physics
- ❖ Undergraduate courses (Teaching assistant): Literature Retrieval and Chemical Equipment

Conferences

- ❖ **ML.Yeboah**, (2017, October). Effect of Different Carbon Additives on Structure of Magnesium Composites for Hydrogen Storage. AIChE Annual Meeting, Minneapolis Convention Center, Minnesota, US. (Poster Presentation)
- ❖ **ML.Yeboah**, other authors. (2018, October) A Novel Application of Palm Kernel Shell derived Carbon to Magnesium-based Hydrogen Storage Materials. 35th Pittsburgh Coal Conference, Xuzhou, China (Oral Presentation)
- ❖ 12th International Conference on Computational Nanoscience and Energy Materials, CNNEM12-2019 (Conference attendee)

Publications

- i. **ML. Yeboah**, Shixue Zhou, Sand mulch-aided ambient-air fabrication of microporous cocoa waste derived-activated carbon for methylene blue adsorption, International Journal of Environmental Analytical Chemistry, 2021, 1-17
- ii. **ML. Yeboah**. Facile synthesis of micro-mesoporous activated carbon in ambient air via one and two-stage activation of palm kernel shell waste for methylene blue adsorption. International Journal of Environmental Analytical Chemistry, 2021, 1-19.
- iii. **ML. Yeboah**, Xinyuan Li, Shixue Zhou. Facile Fabrication of Biochar from Palm Kernel Shell Waste and Its Novel Application to Magnesium-Based Materials for Hydrogen Storage. Materials, 2020, 13: 625.
- iv. Zongying Han, **ML. Yeboah**, Ruiqian Jiang, Xinyuan Li, Shixue Zhou Hybrid activation mechanism of thermal annealing for hydrogen storage of magnesium-based on experimental evidence and theoretical validation. Applied Surface Science, 2020, 504: 144491.

References

Professor Zhou Shixue

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Professor Samuel Kwofie

Former Dean, Faculty of Chemical and Mechanical Materials Engineering, KNUST, Ghana.

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Professor Anthony Andrews

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