Joseph Asankomah Bentil

Department of Biochemistry and Biotechnology
Kwame Nkrumah University of Science and Technology

ORCID 0000-0002-2768-986X · Google Scholar scholar.google.com/citations?user=RwLWR_sAAAAJ&hl=en · Profile knust.peerford.com/staff/7cf5eca9-75f7-4c6e-a19f-b455e542b1d0

RESEARCH

Interests	Biotechnology
Areas	Biomedical Engineering · Plant Science · Biotechnology · Food Science · Aquatic Science · Forestry

RESEARCH SUMMARY

18	244	9	9	1.40	10%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 18 publications listed below, 2015–2026. 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. 1 of the 10 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Lecturer 2019–2020
Biochemistry and Biotechnology, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

EDUCATION AND QUALIFICATIONS

PhD Student 2015–2017
Chemical and Biochemical Engineering, Technical University of Denmark, Kongens Lyngby, Denmark

Masters Student 2009–2012
Biochemistry and Biotechnology, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

Bachelor Student 2000–2004
Biochemistry and Biotechnology, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

DISTINCTIONS, MEMBERSHIPS AND SERVICE

Facilitator 2019
Crop and Soil Sciences, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

PUBLICATIONS

Journal articles 17

1. Patricia Sam Barko, Hannah Cofie, Benard Danquah, **Joseph Asankomah Bentil**, Mina Ofosu (2026). Cellulase production by Aspergillus niger using palm kernel cake in solid state fermentation. *Discover Biotechnology*. https://doi.org/10.1007/s44340-026-00056-z
2. **Joseph A. Bentil** (2025). Conversion of cassava peels into bioethanol using the OSTEP approach. *Biomass Conversion and Biorefinery*.
3. Martison Budu, Patrick Boakye, **Joseph A. Bentil** (2025). Scale-Up of Tailor-Made Onsite Enzyme Blend From Cassava Peels for Industrial Bioethanol Production. *The Scientific World JOURNAL*. https://doi.org/10.1155/tswj/2296078
4. Lyndon N. A. Sackey, Augustine Okobeng, Priscilla Yawa Obidieh, Flora-Marie Mpaka Ngala, Emmanuel Bentum Otoo, Jeremiah Quartey, **Joseph A. Bentil**, David Azanu (2024). Risk Assessment of Pharmaceutical Contaminants in Pharmaceutical Wastewater. *The Scientific World JOURNAL*. https://doi.org/10.1155/2024/5538398
5. Nana Yaw Adu Antwi, Joshua Otoo, Gloria Teye, Patrick Boakye, Imman Boahene, **Joseph A. Bentil** (2023). The potential of in-house pectinolytic enzymes for industrial application. *Scientific African*. https://doi.org/10.1016/j.sciaf.2023.e01827
6. Nana Aboagye Acheampong, William Gariba Akanwariwiak, Moses Mensah, Bernard Fei-Baffoe, Felix Offei, **Joseph Asankomah Bentil**, Abubakari Zarouk Imoro, Lawrence Sheringham Borquaye (2022). Conversion of cassava peels into bioethanol using the OSTEP approach. *Biomass Conversion and Biorefinery*. https://doi.org/10.1007/s13399-021-02149-7
7. **Joseph A. Bentil** (2021). Biocatalytic potential of basidiomycetes: Relevance, challenges and research interventions in industrial processes. *Scientific African*. https://doi.org/10.1016/j.sciaf.2021.e00717
8. Nana Aboagye Acheampong, William Gariba Akanwariwiak, Moses Mensah, Bernard Fei-Baffoe, Felix Offei, **Joseph Asankomah Bentil**, Lawrence Sheringham Borquaye (2021). Optimization of hydrolases production from cassava peels by Trametes polyzona BKW001. *Scientific African*. https://doi.org/10.1016/j.sciaf.2021.e00835
9. **JA Bentil** (2020). Enzymatic Saccharification of pretreated corn stover using in-house cellulolytic enzyme blends from Polyporus ciliatus CBS 366.74. *Enzyme & Microbial Technology*.
10. Anders Thygesen, Johannes Ami, Dinesh Fernando, **Joseph Bentil**, Geoffrey Daniel, Moses Mensah, Anne S. Meyer (2020). Microstructural and carbohydrate compositional changes induced by enzymatic saccharification of green seaweed from West Africa. *Algal Research*. https://doi.org/10.1016/j.algal.2020.101894
11. **Joseph A. Bentil**, Anders Thygesen, Lene Lange, Moses Mensah, Anne S. Meyer (2019). Green seaweeds (Ulva fasciata sp.) as nitrogen source for fungal cellulase production. *World Journal of Microbiology and Biotechnology*. https://doi.org/10.1007/s11274-019-2658-1
12. **JA Bentil** (2018). Alkaline extraction of seaweed carrageenan hydrocolloids using cocoa pod husk ash. *Biomass Conversion and Biorefinery*. https://doi.org/10.1007/s13399-018-0305-y
13. **Joseph A. Bentil**, Anders Thygesen, Moses Mensah, Lene Lange, Anne S. Meyer (2018). Cellulase production by white-rot basidiomycetous fungi: solid-state versus submerged cultivation. *Applied Microbiology and Biotechnology*. https://doi.org/10.1007/s00253-018-9072-8
14. **JA Bentil** (2016). Biodetoxification of Defatted Moringa Seed Cake by Solid-state Fermentation with Aspergillus niger JL-15 and Rhizopus oligosporus T-3. *Applied Microbiology & Biotechnology*.
15. **JA. Bentil** (2016). Evaluation of Ethanol Production from Pito Mash using Zymomonas mobilis and Saccharomyces cerevisiae. *African Journal of Biotechnology*. https://academicjournals.org/journal/AJB/article-full-text/E01017859740
16. **JA. Bentil**, VP Dzogbefia, F Alemawor (2015). Enhancement of the nutritive value of cocoa (Theobroma

cacao) bean shells for use as feed for animals through a two-stage solid state fermentation with Pleurotus ostreatus and …. *Int. J. Appl. Microbiol. Biotechnol. Res*. https://www.academia.edu/download/45772270/Bentil_et_al.pdf

17. **JA Bentil** (2015). SCREENING FOR ETHANOGENIC MICROORGANISMS FROM FRESHLY TAPPED PALM WINE. *African Journal of Biotechnology*.

Conference papers 1

1. **JA Bentil** (2017). Macroalgae-based biorefineries. *DTU Sustain 2017*. https://orbit.dtu.dk/en/publications/macroalgae-based-biorefineries/