Albert Amatey Adjaottor

Faculty of Mechanical and Chemical Engineering
Kwame Nkrumah University of Science and Technology

ORCID 0000-0003-2608-2537 · Google Scholar scholar.google.com/citations?user=GJFHi98AAAAJ&hl=en · Profile knust.peerford.com/staff/79fff364-9989-4194-97ff-6cba8bad821c

RESEARCH

Interests	Bioremediation · Plastics recycling · Surface modification · Ceramic materials
Areas	Civil and Structural Engineering · Building and Construction · Biomaterials · Biomedical Engineering · Electrical and Electronic Engineering · Analytical Chemistry

RESEARCH SUMMARY

28	529	12	12	0.68	0%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 28 publications listed below, 1991–2022. Field-weighted impact is the mean over the 11 works scored for it; 1.00 is the world average for works of the same field, type and year. 0 of the 11 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Lecturer (Senior Lecturer) 2005–present
Materials Engineering, Kwame Nkrumah University of Science and Technology College of Engineering, Kumasi, Ghana

EDUCATION AND QUALIFICATIONS

MSc/PhD 1988–1997
Chemical Engineering/Materials Science and Engineering, Louisiana State University, Baton Rouge, United States

BSc 1980–1985
Chemical Engineering, Kwame Nkrumah University of Science and Technology College of Engineering, Kumasi, Ghana

PUBLICATIONS

Journal articles 23

1. Anthony Andrews, Edward F. Nyarko, **Albert A. Adjaottor**, Elsie Nsiah-Baafi, Mark Adom-Asamoah (2022). Reuse and stabilization of sulphide mine tailings as fine aggregate for construction mortar. *Journal of Cleaner Production*. https://doi.org/10.1016/j.jclepro.2022.131971
2. Ahenkan Serwaa Afena, Derrick Kontoh Boateng, Lawrence Darkwah, **Albert A. Adjaottor** (2021). Decolourisation of Textile Wastewater by Dye Degrading Microorganisms Isolated from Textile Effluent. *Journal of Environmental Protection*. https://doi.org/10.4236/jep.2021.1210046
3. Mark Bediako, **Albert A. Adjaottor**, Simon K.Y Gawu, Eric Opoku Amankwah (2020). Compressive strength and durability properties of pozzolan obtained from co-fired clay and rice husk. *Cogent Engineering*. https://doi.org/10.1080/23311916.2020.1811453
4. **AA Adjaottor**, SKY Gawu (2019). Feasibility Studies of Using Ghanaian-Nyamebekyere Calcined Clay as Artificial Pozzolan. *ACI Materials Journal*. https://openurl.ebsco.com/contentitem/gcd:135687440?sid=ebsco:plink:crawler-gcd&id=ebsco:gcd:135687440&crl=c&jrnl=0889325X

5. Mark Bediako, Simon K. Gawu, **Albert Amartey Adjaottor**, Johny Solomon Ankrah, Eugene Atiemo (2016). Analysis of co-fired clay and palm kernel shells as a cementitious material in Ghana. *Case Studies in Construction Materials*. https://doi.org/10.1016/j.cscm.2016.06.001

6. S. J. Ojolo, **A. A. Adjaottor**, R. S. Olatunji (2016). EXPERIMENTAL PREDICTION AND OPTIMIZATION OF MATERIAL REMOVAL RATE DURING HARD TURNING OF AUSTENITIC 304L STAINLESS STEEL. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v36i2.4

7. Mark Bediako, S. K. Y. Gawu, **A. A. Adjaottor**, John Solomon Ankrah (2016). Early and Late Strength Characterization of Portland Cement Containing Calcined Low-Grade Kaolin Clay. *Journal of Engineering*. https://doi.org/10.1155/2016/7210891

8. James Sarfo-Ansah, Eugene Atiemo, Kwabena Appiah Boakye, Delali Adjei, **Albert A. Adjaottor** (2014). Calcined Clay Pozzolan as an Admixture to Mitigate the Alkali-Silica Reaction in Concrete. *Journal of Materials Science and Chemical Engineering*. https://doi.org/10.4236/msce.2014.25004

9. **AA Adjaottor**, G Owusu-Boateng (2014). Characterization of solid waste in the Atwima-Nwabiagya district of the Ashanti Region, Kumasi-Ghana. *Int. J. Waste Manage. Technol*. http://www.ijwmt.com/IJWMT_Vol.%202,%20No.%201,%20January%202014/CHARACTERIZATION.pdf

10. **AA Adjaottor** (2014). Improvement of setting times and early strength development of clay pozzolana cement through chemical activation. *J. Chem. Eng. Chem. Res*. https://scholar.google.com/scholar?cluster=12431556859462779154&hl=en&oi=scholarr

11. R. Buamah, K. Akodwaa-Boadi, M. Paintsil, E. K. Baah-Ennumh, **A. A. Adjaottor** (2014). Modelling the chlorine decay process in a distribution network using a pilot system. *Water Practice & Technology*. https://doi.org/10.2166/wpt.2014.060

12. **AA Adjaottor** (2013). Isolation of [alpha]-amylase from malted rice (Wita 7) extract using cassava starch column procedure. *African Journal of Biotechnology*. https://academicjournals.org/journal/AJB/article-full-text-pdf/9E67A7822636.pdf

13. **AA Adjaottor** (2013). Malting characteristics of Wita 7 variety of rice. *Peak Journal of Food Science and Technology*. https://www.academia.edu/download/63545166/PJFST-13-020_Asante_et_al20200606-18319-57qf7u.pdf

14. Mark Bediako, S.K.Y. Gawu, **A.A. Adjaottor** (2011). Suitability of some Ghanaian mineral admixtures for masonry mortar formulation. *Construction and Building Materials*. https://doi.org/10.1016/j.conbuildmat.2011.06.016

15. **AA Adjaottor** (2001). Plasma Deposition. *Wiley Encyclopedia of Electrical and Electronics Engineering*. https://doi.org/10.1002/047134608x.w5911

16. **AA Adjaottor** (1999). Room temperature oxidation behavior of TiN thin films. *Thin Solid Films*. https://www.sciencedirect.com/science/article/pii/S0040609098009754

17. **AA Adjaottor** (1997). On the mechanism of intensified plasma-assisted processing. *Surface and Coatings Technology*. https://www.sciencedirect.com/science/article/pii/S0257897296028939

18. **AA Adjaottor** (1996). Synthesis of aluminum nitride by intensified plasma assisted processing. *BOOK-INSTITUTE OF MATERIALS*. https://scholar.google.com/scholar?cluster=9999543684130810510&hl=en&oi=scholarr

19. **AA Adjaottor** (1995). Effect of substrate bias on sputter-deposited TiC {sub x}, TiN {sub y} and TiC {sub x} N {sub y} thin films. *Surface and Coatings Technology*. https://www.osti.gov/etdeweb/biblio/210990

20. **AA Adjaottor** (1995). Effect of substrate bias on sputter-deposited TiCx, TiNy and TiCxNy thin films. *Surface and Coatings Technology*. https://www.sciencedirect.com/science/article/pii/0257897295025944

21. **A Adjaottor** (1994). Influence of energetic particle bombardment on nitrogen penetration during intensified plasma-assisted processing. *Elevated Temperature Coatings: Science and Technology I*. https://scholar.google.com/scholar?cluster=5085871026017416740&hl=en&oi=scholarr

22. **AA Adjaottor** (1992). Aerosol synthesis of aluminum nitride powder using metalorganic reactants. *Journal of the American Ceramic Society*. https://doi.org/10.1111/j.1151-2916.1992.tb04413.x

23. **AA Adjaottor** (1991). Aerosol Synthesis of Aluminum Nitride Powders. *MRS Online Proceedings Library (OPL)*. https://www.cambridge.org/core/journals/mrs-online-proceedings-library-archive/article/aerosol-synthesis-of-aluminum-nitride-powders/34F68ABA487EE1D0FD87D8329A07F33D

Conference papers 2

1. Kosgei Belion, Patrick F. Mensah, Stephen Akwaboa, Eyassu Woldesenbet, Michael Stubblefield, **Albert Adjaottor** (2014). Engine Performance and Emission Products of Pure Diesel and Multi-Feedstock Blended Biodiesel. https://doi.org/10.1115/imece2014-40349
2. Mark Bediako, **Adjaottor A. A.**, Gawu S. K. Y. (2011). Selected Mechanical Properties of Mortar Used for Masonry Incorporating Artificial Pozzolana. https://doi.org/10.3850/978-981-08-7920-4_s3-m021-cd

Reports 1

1. SKY Gawu, **AA Adjaottor** (2010). Suitability of some Ghanaian mineral admixtures mortar formulation. *Taylor & Francis Group*. https://scholar.google.com/scholar?cluster=10160873990487653662&hl=en&oi=scholarr

Theses 2

1. **AA Adjaottor** (1997). A study of the effect of energetic flux bombardment on intensified plasma-assisted processing. *Louisiana State University and Agricultural & Mechanical College*. https://search.proquest.com/openview/c492ed945a3e5c8e69670e1d824e8865/1?pq-origsite=gscholar&cbl=18750&diss=y
2. **AA Adjaottor** (1992). Aerosol synthesis of aluminum nitride ceramic powder. *Louisiana State University, Baton Rouge*. https://scholar.google.com/scholar?cluster=12633965207515259811&hl=en&oi=scholarr