**Prof. Ahmad Addo**

**Address:** College of Engineering, KNUST, Kumasi-Ghana

 TEL: (OFFICE) +233 (0)248467224

 CELL: +233 244518346

 E-MAIL: aaddo.coe@knust.edu.gh; ahmadaddo@gmail.com

**1. Education:**

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| **Institution (Date from - Date to)** | **Degree(s) or Diploma(s) obtained:** |
| University of Tsukuba (Japan (1997 – 2002) | PhD Agricultural Engineering |
| University of Tsukuba (1995 – 1997) | MSc Biosystem Science |
| Kwame Nkrumah University of Science and Technology, Ghana (1985 – 1990) | BSc. Agricultural Engineering |

**Employment**

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| **Rank (Date from – Date to)** | **Employer** |
| **Head of Department** ( 2019- to date) | Department of Agricultural and Biosystems Engineering, Kwame Nkrumah University of Science and Technology (KNUST), Kumasi |
| **Professor** (2019–to date) | Kwame Nkrumah University of Science and Technology (KNUST), Kumasi |
| **Vice-Dean** (2018 – 2019) | Faculty of Mechanical and Chemical Engineering, College of Engineering, KNUST, Kumasi |
| **Director** (2014–2015) | The Brew-Hammond Energy Centre, Kwame Nkrumah University of Science and Technology (KNUST), Kumasi |
| **Associate Professor** (2010–2019) | Kwame Nkrumah University of Science and Technology (KNUST), Kumasi |
| Acting Director (2013–2014) | The Brew-Hammond Energy Center, KNUST, Kumasi,  |
| **Hall Master**  (2010–2014) | Unity Hall, KNUST, Kumasi |
| **Senior Lecturer** (2005 – 2018) | Kwame Nkrumah University of Science and Technology (KNUST), Kumasi |
| **Lecturer** (2003 – 2005) | Kwame Nkrumah University of Science and Technology (KNUST), Kumasi |
| **Part-Time Lecturer** (2009) | Department of Agricultural Engineering, University of Cape Coast, Cape-Coast |
| **Supervisor** (1991-1994) | Engineering Section, Kpong Farms Ltd, Volta River Authority, Akuse |

**Membership of professional bodies:**

Professional Engineer –Ghana Institution of Engineers (GhIE)

Agricultural and Biosystems Engineering (ASABE)

Ghana Society of Agricultural Engineering (GSAE)

**2. Supervision of Student Project Work/Theses/Research**

**Postgraduate Project Supervision**

Supervision of Post-Doctoral at KNUST

List of Post-Doctoral Fellows

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| **No.** | **Year** | **Fellow** | **Home Institution/Funding Agency** |
| 1. | 1/2016 to 12/2016 | Dr Endurance Ogheneruona Diemuodeke | University of Port Harcourt, Nigeria under African Academy of Sciences/The Association of Commonwealth Universities Circle Visiting Fellowship. |
| 2. | 1/2015 to 12/2015 | Dr Abiodun Suleiman Momodu | Obafemi Awolowo University, Nigeria under African Academy of Sciences/The Association of Commonwealth Universities Circle Visiting Fellowship. |

**Postgraduate Project Supervision**

*Supervision of PhD Candidates*

List of PhD candidates

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| **No.** | **Year** | **Student** | **Topic** |
| 1. | 2017to date | Fabrice N. Abunde | Design and optimization of a hybrid blackwater treatment system coupled to biogas generation and microbial disinfection. *(Supervisors: R. Seidu, J. Morken,* S. W. Østerhusd *(Norway),* ***A. Addo*** *and N. Y. Asiedu)* |
| 2. | 2017 to date | Jonathan Ampah | Drying kinetics and physico-chemical properties of selected fruits in Ghana. *(Supervisors:* ***A. Addo*** *and A. Bart-Plange)*  |
| 3. | 2018 | Selorm Yaotse Dorvlo | Design and evaluation of a biomass cook stove for palm oil clarification and biochar production (Supervisors: **A. Addo** and F. Kemausuor) |
| 4. | 2018 | James M. Seidu | Development and evaluation of a pelletiser for domesticated grasscutterfeed *(Supervisors: K. Dzisi and* ***A. Addo****)* |
| 5. | 2018 | Emmanuel Essien | Development of a decision support system for siting grain storage facilities to reduce transportation costs in Ghana (Supervisors: K. Dzisi and **A. Addo**) |
| 6. | 2017 | Edward A. Awafo | Design and performance analysis of a combined dehumidification and evaporative cooling system for mango storage (Supervisors: **A. Addo** and A. Bart-Plange) |
| 7. | 2017 | Linda Dari | Pesticide application practices of tomato (*Lycopersicon esculentum Mill*). farmers in Savelugu and Kassena Nankan East Districts of Ghana (Supervisors: **A. Addo** and K. Dzisi) |
| 8. | 2017 | Shadrack K. Amponsah | Assessment of technical performance and economic feasibility of various harvesting systems for smallholder rice farmers in the West African Sub-region. (Supervisors: **A. Addo** and K. Dzisi) |
| 9. | 2017 | Cephas K. Bosrotsi  | Development and performance evaluation of a mechanical yam harvester. (Supervisors: **A. Addo** and K. Dzisi ) |
| 10. | 2017 | Rita E. Sanful  | Effects of drying on quality and drying characteristics of aerial yam (*Dioscorea bulbifera*). (Supervisors: W. O. Ellis and Co-supervisor: **A. Addo**) |
| 11. | 2016 | Brenda E. Eje | Effects of harvest age, variety and pre-treatment on cassava flour quality. (Supervisors: **A. Addo** and K. Dzisi) |
| 12. | 2015 | Francis Kemausour  | Assessment of technical potential and selected sustainability impacts of second generation bioenergy in Ghana (Supervisors: **A. Addo** and L. Darkwah ) |
| 13. | 2014 | Ato Bart-Plange  | Thermophysical properties of selected cash crops grown in Ghana. (Supervisors: K. Dzisi and **A. Addo**) |

*Supervision of* *MPhil / MSc Candidates at KNUST and MTech Candidates at UEW*

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| **No.** | **Year** | **Student(s)** | **Topic** |
| 1. | 2017 to date  | Rejoice N. Ossei-BremangMPhil | Development of a model framework for simultaneous synthesis and section of anaerobic digester structures (Supervisors: **A. Addo** and N. Asiedu) |
| 2. | 2017 to date | Patricia Ohenewa MPhil | Performance modelling and optimisation of head rice yield of two rice varieties in a two-stage drying process (Supervisors: **A. Addo** and J. O. Akowuah) |
| 3. | 2019 | George Obeng-Akrofi MPhil | Performance evaluation of a crossflow column drying system with a biomass burner heat source (Supervisors: **A. Addo**, D. Maier (Iowa State University) and J. O. Akowuah) |
| 4. | 2017 | Kingsford Eshun MTech | Design of a mini-grid solar electrification system for Mpahin community in the Central Region *(Supervisor:* ***A. Addo****)* |
| 5. | 2017 | Mary OforiwaaMTech | Consumers perception of prepaid meter system in the Koforidua municipality *(Supervisor:* ***A. Addo****)* |
| 6. | 2017 | Robert Kissi BoatengMTech | Assessment of competency based learning on the skills acquisition of electrical/electronic engineering students in Ghana; the case study of Cape Coast Technical University (Supervisor: **A. Addo**) |
| 7. | 2017 | Ayemvoa Atambila MTech | Investigating driver attitude and vehicular performance as a contributory factor to road accidents on the Navrongo–Bolgatanga road in the Upper East region of Ghana (Supervisor: **A. Addo**) |
| 8. | 2017 | Gilbert NsohMTech | Occupational safety management in motorcycle mechanic workshops: A case study of the Bongo district in the Upper East Region of Ghana (Supervisor: **A. Addo**) |
| 9. | 2016 | Ansong A. Thomas MPhil | Particle size distribution of poultry feed produced in the Dormaa metropolis (Supervisor: **A. Addo** and A. Bart-Plange) |
| 10. | 2016 | Mohammed Kamil Amaana, MPhil | Storage of oranges under ambient condition (*Citrus sinenesis*) *(Supervisor:* ***A. Addo*** *and R. Appiah)*  |
| 11. | 2015 | Fabrice N. Abunde*MPhil* | Mathematical modelling and optimal control: maximizing yield in submerged alcoholic fermentation *(Supervisor:* ***A. Addo*** *and N. Asiedu)* |
| 12. | 2015 | Idun-Acquah N. Nancy, *MPhil* | Water absorption characteristics of selected legumes as affected by soaking water temperature *(Supervisors:* ***A. Addo*** *and A. Bart-Plange)* |
| 13. | 2013 | Ezekiel A. Ayamga MPhil | Assessment of lignocellulosic crop waste biomass potential for biofuel production in Lawra-Nandom district. (Supervisors: **A. Addo** and F. Kemausuor) |
| 14. | 2013 | John B. Von-EngMSc | Comparative study of a passive solar dryer, forced-ar dryer and sun drying on quality of Tomatoes (Roma variety).(Supervisors: **K. Dzisi** and A. Addo) |
| 15. | 2012 | Hagar SarkodieMSc | Effect of modified atmosphere packaging and storage temperature on shelf life quality of minimally processed carrots (Supervisors: **A. Addo** and K. Dzisi) |
| 16. | 2012 | Liticia AsumengMPhil | Quality and drying characteristics of infra-red dried mango-sweetpotato leathers (Supervisors: I. Oduro and **A. Addo**) |
| 17. | 2012 | Bismark GeorgeMSc | Effect of parboiling process on quality of two varieties of Nerica rice (Supervisors: **A. Addo** and K. Dzisi.) |
| 18. | 2012 | Emmanuel A. SewehMSc | Project feasibility study for the establishment of an industrial shea nut processing facility in Wa (Supervisors: J. O. Darko and **A. Addo**) |
| 19. | 2012 | Hayford Ofori MSc | Thermal properties of selected species of banana grown in Ghana (Supervisor: A. Bart-Plange and **A. Addo**) |
| 20. | 2011 | Wilson K. KallaiMSc | Design, construction and evaluation of a continuous flow dryer (Supervisors: **A. Addo** and J. Aveyire.) |
| 21. | 2011 | Godfred Isaac AntwiMSc | Water diffusion coefficients of selected cereals and legumes grown in Ghana as affected by temperature and variety. (Supervisors: **A. Addo** and A. Bart-Plange) |
| 22. | 2010 | Clara B. DarkoMSc | Assessment of post-harvest handling of export horticultural produce in Ghana – The case of pawpaw and pineapple (Supervisors: **A. Addo** and J. O. Darko) |
| 23. | 2009 | Mohammed K. A. Piegu, MSc | Engineering properties of cashew nut and kernel grown in Ghana (Supervisors: **A. Bart-Plange** and A. Addo) |
| 24. | 2009 | Karim Dramani MSc | Comparative study of cowpea storage in different storage structures (Supervisors: J. O. Darko and **A. Addo**) |
| 25. | 2009 | Martin A. Amankwah MPhil | Assessment of postharvest handling of maize at Odumase in the Sunyani-West District of the Brong-Ahafo Region (Supervisors: **A. Addo** and W. O. Ellis) |
| 26. | 2009 | Ibrahim Dokurugu MSc | Two-stage drying of paddy and the effects on milling quality (Supervisors: **A. Addo** and J. O. Darko) |
| 27. | 2009 | Linda Dari (Ms) MSc | Effect of different solvents on the extraction rate of soya bean oil. (Supervisors: **A. Addo** and J. O. Darko) |
| 28. | 2007 | Emmanuel D. Akrobotu, MSc | Aflatoxin contamination of maize from different storage locations in Ghana. (Supervisor: A. Bart-Plange and **A. Addo**) |
| 29. | 2007 | Francis A. Korletey MSc | Assessment of polytank for fumigation and storage of cowpea. (Supervisors: **J**. O. Darko and **A. Addo**) |
| 30. | 2007 | Emmanuel Minkah MSc | Drying and milling characteristics of some selected upland and lowland rice (*Oryza sativa*) varieties grown in Ghana (Supervisors: **A. Addo** and K. Dartey) |

**Undergraduate Project Supervision**

Supervised over 120 Undergraduate students

**(c) Other Professionally Related Experience**

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| Nov. 2018Sept. ‘18-to dateSept. ’18-to date2018-201920182017-to date2017201720172016-20182016-to date2016-to date | Research counterpart from KNUST on proposal preparation on *Bioenergy Pro- duction and Utilization in Ghana Project* at University of Rostock, Germany. Cognate representative of College of Engineering on Appointments and Promotions Sub-Committee of College of ScienceMember, Programme Advisory Board for Masters in Intellectual Property (MIP), KNUST. Kumasi**Member,** National Technical Team to Develop Ghana Agricultural Engineering Policy, Ministry of Food and Agriculture.**Chairman**, Postgraduate Research Committee, Faculty of Mechanical and Chemical Engineering, College of Engineering, KNUST, Kumasi**Professorial Membe**r, College of Engineering Board, KNUST, Kumasi**Participant,** 7th KNUST Summer School, Kumasi**Participant,** Supervisors and Mentors Meeting to Discuss the Scientific Output of the CIRCLE Programme. Organised by *Association of Commonwealth Universities* at *The African Academy of Sciences*, Nairobi, Kenya, 17-19 May 2017.**External Assessor** of staff promotion (associate professor) application from University of Cape-Coast.**Council Member**, Unity Hall, KNUST, Kumasi**Member,** Editorial Board of African Journal of Technical Education and Management (AJTEM), Ho Technical University.**Manuscript Reviewer**, Journal of University of Science and Technology, KNUST. |
| 2015-to date2015201420142014201420142014201420142013-20152013-2016201320132012 | **Co-operating Editor**, Agricultural Mechanization in Asia, Latin America and Africa. A Publication of Farm Machinery Industrial Research Corp., Japan.**Chairman,** Committee to Develop BSc. Renewable Energy Technology Programme, College of Technology, University of Education, Winneba.**Leader,** KNUST Research Team to “Pre-project proposal meeting on Strengthening Masters Programme in Renewable Technologies” at the Norwegian University of Life Sciences in Ås, Norway. 27 October – 1 November, 2014.**Leader,** KNUST Research Team to collaborative research meeting at University of Petroleum and Energy Studies (UPES), Dehradun, India under *Leadership Development for Higher Education Reform* (LEADHER)) Programme funded project by the International Association of Universities (IAU), UNESCO. 10-14 July 2014.**Leader,** KNUST Research Team to “Workshop on African Union funded project on “Potential of distributed grid-connected solar – PV systems in rural electrification in Africa Botswana” at University of Botswana, Gaborone. 8- 12 June 2014.**Participant**, Workshop on “Higher Education for the Renewable Energy Sector in Africa. Developing Higher Education activities in the Framework of the Africa-EU Renewable Energy Co-operation Programme. Kigali, Rwanda, 10-11 July 2014. **Participant**, ANSOLE Regional Meeting in West Africa (ARMWA 2014), The Energy Center, Kwame Nkrumah University of Science and Technology, Kumasi. April 25-26, 2014.**Leader,** KNUST Research Team to bilateral research meeting at Centro Nacional de Energias Renovables renewable energy research laboratories. Sarriguren (Navarra), Spain, 19 March 2014.**Leader.** KNUST Research Team to bilateral research meeting at Société Ingéniérie Réalisations Electriques Automatismes (SIREA) for research collaboration. Castres, France 17-18 March 2014.**Lead Researcher**, Academic exchange between KNUST and University of Petroleum Studies (UPES), India under the *Leadership Development for Higher Education Reform (LEADHER) Programme* funded project by the International Association of Universities (IAU), UNESCO, Paris, France.**Membe**r, College of Engineering Board, KNUST, Kumasi.**External examiner**, BTech Programme, Department of Agricultural Engineering, Ho Polytechnic.**Leader,** KNUST Research Teamto North-Rhine Westphalia State/GIZ and KNUST Workshop in Dortmund, Germany. 11-15 February 2013.**Member**, Team from National Accreditation Board for the accreditation of the Bachelor of Science in Agro-processing programme at the University of Cape Coast**Chair**, Breakout Session 3: Africa Bioenergy Policy Framework and Guidelines at the ‘Renewable Energy for Sustainable Development’ Conference organised by theAfrican Union Commission on 12-16 November 2012. Addis Ababa, Ethiopia. |
| 20122011 | **Participant**,Workshop onSustainable Biomass Energy for Electricity Generation. Güssing, Austria. Organised by UNIDO, Vienna, 2 – 4 May 2012**External Assessor** of staff promotion application from Wa Polytechnic. |
| 2011 | **External Assessor** of staff promotion application from University of Cape-Coast. |
| 2010 | **Manuscript Reviewer,** Ghana Journal of Science and Agriculture Education |
| 201020102010 | **Resource Person**, Tech Energy Seminar Series in Accra (TESSA 2010), organised by The Energy Center, KNUST, at The British Council, Accra, 20-22 November 2010.**Council Member**, Unity Hall, KNUST, Kumasi**External Examiner** for an MPhil thesis, University of Cape-Coast. |
| 20102010 | **Research Partner** (The Energy Centre, KNUST) to the Research Group on Cooperation and Human Development, Universitat Politècnica de Catalunya, Barcelona, Spain.**External Assessor** of staff promotion (senior lecturer) application from Ho Polytechnic. |

**3. Details of Research or Projects Undertaken Since Last Promoted:**

**(a) Research Conducted (Topics with dates)**

1. Modelling, simulation and optimisation of fermentation systems, 2015 to date
2. Design, modelling and optimisation of renewable energy systems, 2013 to date
3. Assessment of biomass for electricity generation, 2013 to date
4. Design and field evaluation of agricultural machinery, 2010 to date
5. Drying and moisture absorption properties of agricultural crops, 2010 to date

**(b) Publications Arising out of the Research**

**JOURNALS**

1. S. K. Amponsah, A. Addo, A., E. Djidohopkin, and R. B. Olaye. 2021. Performance assessment of manual rice harvesting methods under farmer’s field conditions. Agricultural Engineering International: CIGR Journal, 23(2):162-169
2. F. A. Neba, N. Y. Asiedu, **A. Addo**, J. Morken, S. W. Østerhusd and Razak Seidu. 2019. Use of attainable regions for synthesis and optimization of multistage anaerobic digesters. *Applied Energy* 242: 334–350 https://doi.org/10.1016/j.apenergy.2019.03.095
3. N. F. Abunde, N. Y. Asiedu and **A. Addo**. 2019. Modeling, simulation and optimal control strategy for batch fermentation processes. *International Journal of Industrial Chemistry* <https://doi.org/10.1007/s40090-019-0172-9>
4. A. S. Momodu and **A. Addo**. 2019. Global CO2 emission reduction policies and West African electricity system: case for transformational access. AAS Open Research (Accepted for Publication).
5. E.O. Diemuodeke, **A. Addo**, C.O.C. Oko, Y. Mulugetta, M.M. Ojapah. 2019. Optimal mapping of hybrid renewable energy systems for locations using multi-criteria decision-making algorithm. *Renewable Energy* 134: 461-477 https://doi.org/10.1016/j.renene.2018.11.055
6. S. Y. Dorvlo, **A. Addo**, F. Kemausuor, S. Abenney-Mickson, J. Ahrenfeldt and and U. Henriksen. 2018. Evaluating the effect of two chimney configurations on the overall airflow and heat transfer of a biomass cook stove. *Journal of Clean Energy Technologies* Vol. 6, No. 5 doi: 10.18178/jocet.2018.6.5.488
7. **A. Addo** and S. K. Amponsah. 2018. Present status and future prospects of agricultural machinery industry in Ghana. AMA 49(2): 87-94.
8. S. Amponsah, **A, Addo**, K. A. Dzisi, B. Asante and D. Afona. 2018. Assessment of rice farmers’ knowledge and perception of harvest and postharvest losses in Ghana. *Cogent Food and Agriculture* doi:10.1080/23311932.2018.1471782
9. [Essien, **E., Addo**, A. and Dzisi, K.A. 2018. Determining the efficiency of the government of Ghana’s network grain storage facilities](https://www.scopus.com/record/display.uri?eid=2-s2.0-85064044278&origin=resultslist&sort=plf-f&src=s&st1=Addo&st2=Ahmad&nlo=1&nlr=20&nls=count-f&sid=0b955d65241a25e8b301eb8062c60e0a&sot=anl&sdt=aut&sl=32&s=AU-ID%28%22Addo%2c+Ahmad%22+14826507400%29&relpos=5&citeCnt=0&searchTerm=). *West African Journal of Applied Ecology* 26: 234-241
10. E. Essien, K. A. Dzisi and **A. Addo**. 2018. Decision support system for designing sustainable multi-stakeholder networks of grain storage facilities in developing countries. *Computers and Electronics in Agriculture* 147: 126-130. https://doi.org/10.1016/j.compag.2018.02.019
11. S. K. Amponsah, **A. Addo**, K. A. Dzisi, J. Moreira and S. Ndindeng. 2018. Comparative evaluation of mechanised and manual threshing options for Amankwatia and AGRA rice varieties in Ghana. *Journal of Agricultural Engineering* LVIII:684 doi:10.4081/jae.2017.684
12. S. K. Amponsah, **A. Addo**, K. A. Dzisi, J. Moreira and S. Ndindeng. 2017. Performance evaluation and field characterization of the Sifang mini rice combine harvester. *Applied Engineering in Agriculture* 33(4): 479-489. doi: 10.13031/aea.11876
13. A. S. Momodu, **A. Addo**, J. F. K. Akinbami and Y. Mulugetta. 2017. Low-carbon development strategy for the West African electricity system: preliminary assessment using system dynamics approach. *Energy, Sustainability and Society* 7:11. doi:10.1186/s13705-017-0113-4
14. C. K. Bosrotsi, **A. Addo**, K. A. Dzisi and S. K. Agodzo. 2017. Development of a yam harvester using finite element method. *International Journal of Modern Studies in Mechanical Engineering* 3(1):33-44. <http://dx.doi.org/10.20431/2454-9711.0301005>
15. C. K. Bosrotsi, **A. Addo**, K. A. Dzisi and S. K. Agodzo. 2017. Technical performance and economic feasibility assessment of a mechanical yam harvester. *International Journal of Research Studies in Agricultural Sciences* 3(3): 1-10. <http://dx.doi.org/10.20431/2454-6224.0303001>
16. E. O. Diemuodeke, **A. Addo**, I. Dabipi-Kalio, C. O. C. Oko and Y. Mulugetta. 2017. Domestic energy demand assessment of coastline rural communities with solar electrification. *Energy and Policy Research* 4(1):1-9 doi: 10.1080/23815639.2017.1280431
17. P. Arranz-Piera, F. Kemausuor, **A. Addo** and E. Velo. 2016. Electricity generation prospects from clustered smallholder and irrigated rice farms in Ghana. *Energy* http://dx.doi.org/10.1016/j.energy.2016.12.101
18. N. F., Abunde, N. Y. Asiedu, and **A. Addo**. 2016. Dynamics of inhibition patterns during fermentation processes - Zea mays and sorghum bicolor case study. *International Journal of Industrial Chemistry* doi: 10.1007/s40090.016-0 105-9.
19. N. Y., Asiedu, N. F. Abunde, and **A. Addo**. 2016. Modeling and simulation of substrate and product inhibitions of fermentation of cassava (Manihot esculenta) extract. *Industrial Biotechnology* 12(5): 303-316. doi: 10.1089/ind.2016.0001
20. B. E. Eje, **A. Addo**, and K. A Dzisi. 2016. Cyanogenic potentials of some new cassava varieties as affected by harvest age, varietal differences and pre-treatment. *IOSR Journal of Environmental Science, Toxicology and Food Technology* 10, Issue 7 Ver. I PP 102-106. doi: 10.9790/2402-100701102106
21. E. O. Diemuodeke, S. Hamilton, and **A. Addo**. 2016. Multi-criteria assessment of hybrid renewable energy systems for Nigeria’s coastline communities. *Energy, Sustainability and Society* 6:26 doi 10.1186/s13705-016-0092-x.
22. E. A. Seweh, S. Apuri, J. O. Darko, **A. Addo**, P. A. Asagadunga, and S. D. Agyegelone. 2016. Effect of moisture on some physical properties of shea (Vitellaria paradoxa L) kernels. *IJSRSET* 2(4): 831-839
23. E. A. Seweh, J. O. Darko, **A. Addo**, P. A. Asagadunga, S. Achibase. 2016. Design, construction and evaluation of an evaporative cooler for sweet potatoes storage. *Agric Eng Int: CIGR Journal* 18(2):435-449.
24. B. E. Eje, **A. Addo**, and K. A Dzisi. 2016. Effects of harvest age and pre-treatment on the nutritional composition of some released cassava mosaic resistant varieties in Ghana. *The International Journal of Science & Technoledge* 4(7):45-51.
25. L. Dari, **A. Addo** and K. A. Dzisi. 2016. Pesticide use in the production of tomato (*Solanum lycopersicum* L.) in some areas of Northern Ghana. *African Journal of Agricultural Research* 11(5): 352-355. Article Number: 74EFA2857046 doi: 10.5897/AJAR2015.10325
26. R. E. Sanful, **A. Addo**, I. Oduro, and W. O. Ellis. 2015. Air drying characteristics of aerial yam (Dioscorea bulbifera) Sch. J. Eng. Tech. 3(8):693-700
27. R. E. Sanful, **A. Addo**, I. Oduro and W. O. Ellis. 2015. Influence of boiling, temperature and thickness on drying time of aerial yam (*Dioscorea bulbifera bulbis*). *Sch. J. Eng. Tech.* 3(8):701-706.
28. F. Kemausuor, **A. Addo** and L. Darkwah. 2015. Technical and socioeconomic potential of biogas from cassava waste in Ghana. *Biotechnology Research International* Volume 2015 (2015), Article ID 828576, 10 pages. <http://dx.doi.org/10.1155/2015/828576>
29. E. A. Ayamga, F. Kemausuor and **A. Addo**. 2015. Technical analysis of crop residue for biomass energy in an agricultural region of Ghana. *Resources, Conservation and Recycling* 95:51-60.
30. L. Effah-Manu, I. Oduro**, A. Addo**, I. A. Adjei. 2015. Mathematical modeling of infra-red drying of mango-sweetpotato leathers. *Scholars Journal of Engineering and Technology* 3(4A):334-340
31. B. E. Eje, **A. Addo**, and K. A. Dzisi. 2015. Effects of toasting time on functional and visco-elastic properties of cassava flour. *IOSR Journal of Environmental Science, Toxicology and Food Technology* 9(6):1-6.
32. **A. Addo**, E. Bessah and S. K. Amponsah. 2014. Uncertainty of food security in Ghana by biofuel (*Jatropha curcus*) production as an adaptation and mitigation capacity to climate change. *Ethiopian Journal of Environmental Studies and Management* 7(1):790-800.
33. W. Odoom, A. Bart-Plange, J. O. Darko and **A. Addo**. 2014. Quality assessment of moisture content, free fatty acids and acid value of coconut oil produced in the Jomoro District of the Western Region of Ghana. *Journal of Research in Agriculture* 3(1): 205-210.
34. L. Effah-Manu, I. Oduro and .**A Addo**. 2013. Effect of Dextrinized Sweet potatoes on the physicochemical and sensory quality of infra-red dried mango leather. *J Food Process Technol* 4: 230. <http://doi:10.4172/2157-7110.1000230>
35. E. Bessah, and **A. Addo**. 2013. Energy reforms as adaptation and mitigation measures to climate change: A case of Ghana*. International Journal of Sustainable Development* 2(2):1052-1066.
36. A**. Addo** and A. Bart-Plange. 2013. Muscoloskeletal disorders associated with tasks in cocoa warehouses in Ghana: preliminary results from a pilot study. *Global Journal of Biology, Agriculture and Health Sciences* 2(1): 38 - 41.
37. A. Bart-Plange, **A. Addo**, A. Akowuah and J. Ampah. 2012. Some moisture dependent compressive properties of shea kernel (*Vitellaria paradoxa L*). *Canadian Journal of Pure and Applied Sciences* 6(3):2113-2119.
38. A. Bart-Plange, A. K. Dzisi, **A. Addo**, E. Teye, and F. Kumi. 2012. A comparative study of some physical properties of large and medium size cocoa beans from Ghana. *ARPN Journal of Science and Technology* 2(3): 135-141.
39. A. Bart-Plange, **A. Addo**, E. E. Abano, J. O. Akowuah. 2012. Compressive properties of cocoa beans considering the effect of moisture content variations. *International Journal of Engineering and Technology* 2(5): 850-858.
40. A. Bart-Plange, A. P. Mohammed-Kamil, **A. Addo** and E. Teye. 2012. Some physical and mechanical properties of cashew nut and kernel grown in Ghana. *International Journal of Science and Nature* 3(2): 406-415.
41. D. Oppong-Sekyere, A. Donkoh and **A. Addo**. 2012. Effect of feed particle size on performance of broiler chickens in Ghana. *International Journal of Plant, Animal and Environmental Sciences* 2(2): 241-247
42. **A. Addo** and A. Bart-Plange. 2012. Particle size evaluation of feed ingredient produced in the Kumasi metropolis, Ghana. *ARPN Journal of Agricultural and Biological Sciences* 7(3):177-181.
43. A. Bart-Plange and **A. Addo**. 2012. Thermal properties of Gros Michel banana grown in Ghana. *Journal of Engineering and Applied Sciences* 7(4):478-484.
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