

Curriculum Vitae – Joel Nwkaire

University of Nigeria
Department of Agricultural and
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Joel Nwakaire, Ph.D, M.Eng, B.Eng

Education

Feb 2009 – Feb 2013 **University of Nigeria**
Ph.d in Power Systems Engineering
Nsukka, Nigeria

2006-2008 M.Eng (Master in Agric & Bioresources, Engineering), University of Nigeria

1998-2004 B.Eng (Second Class Upper Division) Agric Engineering, University of Nigeria

Thesis

Joel Nwakaire: *Development Of Optimized Continuous-Process Biodiesel Plant.* 09/2015,

Current Job

October 2015– present Senior Lecturer, Department of Agricultural and Bioresources Engineering, University of Nigeria, Nsukka

Jan 2009 – present Director
University of Nigeria, Faculty of Engineering Automobile Service Centre
Nsukka, Nigeria

Statistics

RG Score 2.71

Publications 14

Reads 448

Citations 4

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Awards & Grants

May 2012 Award: Runner-up Innovation Prize for Africa 2012

Apr 2009 Award: First Prize in Young Professional in Science Competition

Skills & Activities

Skills Biodiesel Production, Transesterification, Renewable Energy Technologies, Energy Engineering, Renewable Energy and Environment Protection, Biofuel Production, Kinetic Modeling, Alternative Energy Sources, Algae Biodiesel, Automobile Engineering, Automobile Design

Languages English

Scientific Member Nigerian Society of Engineers

Memberships

Interests Nanotechnology application

Publication Highlights

Journal Publications

Joel Nwakaire, Boniface Ugwuishiwu, Chukwuemeka Ohagwu, Francis Obi: *Community-Based Adaptive Measures: Imperative For Effective Climate Change Adaptation Strategy In African Agriculture*. Sylwan 03/2016; 160(3).

J N Nwakaire, C.O. Akubuo, C.J Ohagwu, Ugwuishiwu B.O: *Pressure effect on the yield of methyl ester biodiesel for application in low income countries*. Sylwan 03/2016; 160(3).

J. N. Nwakaire, Ohagwu Chukwuemeka Jude: *Pressure effect on the yield of methyl ester biodiesel for application in low income countries*. Sylwan 03/2016;

J.N. Nwakaire, B.O. Ugwuishiwu: *Development of a Natural Cross Draft Gasifier Stove for Application in Rural Communities in Sub-Saharan Africa*.

Okey F Obi, Joel N Nwakaire: *Repositioning agricultural development in Africa through appropriate technology transfer*. 10/2014; 6(1). DOI:10.1080/20421338.2014.924258

Joel Nwakaire, Durugo Sylvester: *DETERMINATION OF PHYSIO DETERMINATION OF PHYSIO----CHEMICAL PROPERTIES OF OLEANDER SEED OIL FOR BIODIESEL PRODUCTION*.

B O Ugwuishiwu, O F Obi, J N Nwakaire: *DEVELOPMENT OF A PHOTOBIOREACTOR FOR MICROALGAE CULTURE*.

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J N Nwkaire, S L Ezeoha, B O Ugwuishiwu: *Production of cellulosic ethanol from wood sawdust*. Agricultural Engineering International : The CIGR e-journal 01/2013; 15(3).

Joel Nwkaire: *INCOME AND ENERGY SOURCES AMONG AGRARIAN HOUSEHOLDS IN NIGERIA: IMPLICATIONS FOR LOW CARBON ENERGY DEVELOPMENT IN LESS DEVELOPED COUNTRIES*.

J N Nwkaire, B O Ugwuishiwu, C J Ohagwu: *Design, construction and performance analysis of a maize thresher for rural dweller*.

J.N. Nwkaire, C.C. Mbajjorgu: *Permeable Reactive Barriers as a Groundwater Pollution Control Alternative in Nigeria*.

Patents

Low Cost Water Purifier. Patent No. NG/PT/NC/2014/615. CERT. NO. 000547

Conference Proceedings

Nwkaire, J.N., Ohagwu, C.J., Ani, O.A., and Anyadike, C.C. 2009. ICT as a Policy Tool for Economic Emancipation in Nigeria. A paper presented at 2009 Nigerian Society of Engineers Conference, Owerri, Imo State, Nigeria.

Nwkaire, J.N., Ohagwu, C.J., and Ani, O.A. 2009. ICT as a means of Poverty Alleviation in Nigeria's Rural Areas. A paper presented at the 2009 International conference of the Nigeria Institution of Agricultural Engineers, Ile-Ife, Osun State, Nigeria.

Nwkaire, J.N and Akubuo, C.O, 2007. Potentials of Jatropha Curcas as Feedstock for Biodiesel Industry in Nigeria. Proceedings of The 1st International Workshop on Renewable Energy for Sustainable Development in Africa (IWRESDA) pages 150-154, Enugu, Nigeria.

Nwkaire, O.N and Nwkaire, J.N. 2009. Promoting Community Partnership in Sustainable Alternative Energy Development in Nigeria: Opportunities, Gains, and Challenges. A paper presented at the 2009 International Summit & Exhibition on Energy (Nov. 2-4), Ecowas Parliamentary Auditorium, International Conference Centre, Abuja, Nigeria.

Nwkaire, J.N., Okafor, J.O., Anyadike, C.C., Nwoke, A.O. and Nebo, C.O. 2010. Production and Testing of Algae Biodiesel as an Alternative fuel for Diesel Engines in Nigeria. Federal University of Technology Alternative Energy 2010 International Conference, May 2010.

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Obi, O.F. and Nwkaire, J.N. 2011. Sustainable Agricultural Development in Nigeria: the Role of Ergonomics. International Conference on Agricultural Engineering for Economic Transformation organized by the Nigerian Institution of Agricultural Engineers. Vol. 32, Pp 143-148.

Nwkaire, J.N., Ugwuishiwu, B.O., Obi, F.O., Uzoejinwa, B.B, and Nwagugu, N.I. (2011) Design Consideration of a Biodiesel Plant. International Conference on Agricultural Engineering for Economic Transformation organized by the Nigerian Institution of Agricultural Engineers. Vol. 32, Pp 1015-1022.

Nwkaire, J.N., Ugwuishiwu, B.O., Obi, F.O., Uzoejinwa, B.B., Ezeoha, S.L. and Jeremiah, I.M. (2011) Design and Testing of a Modified Fitch Apparatus. International Conference on Agricultural Engineering for Economic Transformation organized by the Nigerian Institution of Agricultural Engineers. Vol. 32, Pp 114-122

Technical Reports

Joel Nwkaire, C.J. Ohagwu: *Design, Construction and Test-running of a Biodiesel Pilot Plant.*
Report number: ISBN: 978 9966-7434-4-8