

Publications

(a) Books already published:

1. Osonubi, O. and **Chukwuka, K.S.** (1999). *Basic Principles of Botany*. Joytal Educational Services, Ibadan. 149pp. ISBN 978-978-083-043-4.
2. Odaibo, A. B., Gbenro, A., Ala, A., Olaniran, A. and **Chukwuka, K. S.** (2012). *Progressive Biology for Senior Secondary Schools*. Macmillan Nigeria Publishers Limited, Lagos. 524pp. ISBN 978-978-018-785-9

(b) Chapters in Books already published:

3. **Chukwuka, K.S.**, Alimba, C.G., Ataguba, G.A. and Adeyemi, J.W. (2017). Impacts of petroleum production on terrestrial fauna and flora in Oil-producing Region of Nigeria. In Prince Emeka Ndimele (Ed.). *The Political Ecology of Oil and Gas Activities in the Nigerian Aquatic Ecosystem* (1st Edition). Oxford: Elsevier Inc. 19pp of 316pp. ISBN 9780128093993.
4. Agulanna F.T. and **Chukwuka, K.S.** (2017). Usefulness of Fluoride in *Zanthoxylum zanthoxyloides* for the cure of Dental Problems. In Olusola Ojuronbe (Ed.). *Translating Research into Policy in Developing Countries*. LAP LAMBERT Academic Publishing. Mauritius. ISBN 978-620-2-05009-8
5. Chukwuka, K. S., Akanmu, A.O., Umukoro, B.O. (Jnr.), Asemoloye, M.D. and Odebode, A.C. (2020). Biochar: A Vital Source for Sustainable Agriculture. In "Rhizosphere and Soil Microbes Utilization in Agriculture and Industry under Current Scenario". IntechOpen Scientific Publishers. London, United Kingdom. 25pp. DOI: <https://dx.doi.org/10.5772/intechopen.86568>

(c) Articles that have already appeared in Refereed Conference Proceedings:

6. **Chukwuka, K.S.**, Ayodele, A.E. and Osonubi, O. (1996). Environmental Impact Assessment of the Rainforest Vegetation in Agbara Industrial Estate, South Western Nigeria. In Obot, E. and Baker, J. (Eds.) *Essential Partnership: The Forest and the people*". Proceedings of Workshop on Rainforest of South Eastern Nigeria and South Western Cameroon. Cross River National Park, Calabar, Nigeria. 268-273pp.

7. **Chukwuka, K.S.** and Ayodele, A.E. (1997). Environmental Audit of the Tunu/Kanbo Forests of the Niger Delta, Nigeria. In Ola-Adams, B.A., Ojo, B.A. and Ogunyemi, S. (Eds.). Proceedings of the 1997 Biennial Conference of the Ecological Society of Nigeria (ECOSON) held at the University of Agriculture, Abeokuta. 23rd – 27th November, 1997. 99-101pp.
- (d) Patents and Copyrights: Nil
- (e) Articles that have already appeared in learned journals:
8. **Chukwuka, K.S.** (2000). Ecological utilization of the weed - *Tithonia diversifolia* and the Sustainability of the Paper Industry in Nigeria. *Bulletin of Science Association of Nigeria* Vol. 23: 169 – 172.
9. **Chukwuka, K.S.** and Isichei, A.O. (1997). Floristics and structure of the remnant forests of the Obafemi Awolowo University Campus Ile-Ife, Nigeria and their potentials for conservation. *Nigerian Journal of Botany* Vol. 10: 83 - 93.
10. Ayodele, A.E. and **Chukwuka, K.S.** (1999). The morphology and ecology of the genus *Synsepalum* (A. Dc) Daniel (Sapotaceae) in Nigeria. *Nigerian Journal of Ecology* Vol. 1: 13-19.
11. Ayodele, A.E., Garba, B.B. and **Chukwuka, K.S.** (1999). Comparative epidermal morphology of Nigerian species of *Alchornea* (Euphorbiaceae). *Journal of Science Research* Vol. 5. No. 1: 38-42.
12. **Chukwuka, K.S.** and Agulanna, F.T. (2005). Laboratory assay of the active ingredients in *Zanthoxylum zanthoxyloides* (Lam) Zepern and Timler and its remedy in dental problems. *International Journal of Biomedical and Health Sciences* Vol. 1: 37- 40.
13. **Chukwuka, K.S.**, Ogunyemi, S. and Fawole, I. (2007). Ecological distribution of *Tithonia diversifolia* (Hemsl) A. Gray - A new exotic weed in Nigeria. *Journal of Biological Sciences* Vol. 7 No. 5: 709 – 719.
14. **Chukwuka, K.S.**; Ogunyemi, S.; Osho, J.S.A.; Atiri, G.I and Muoghalu J.I (2007): Eco-physiological Responses of *Tithonia diversifolia* (Hemsl) A. Gray in Nursery and Field Conditions. *Journal of Biological Sciences* Vol. 7 No. 5: 771-775.

15. Uka, U.N and **Chukwuka, K.S** (2007): Effects of Water Hyacinth Infestation on the Physicochemical Characteristics of Awba Reservoir, Ibadan, South-West, Nigeria. *Journal of Biological Sciences* Vol. 7 No. 2, 282-287.
16. **Chukwuka, K.S.** and Uka, U.N. (2007). Effects of Water Hyacinth (*Eichhornia crassipes*) infestation on Zooplankton population in Awba Reservoir, Ibadan, South-West, Nigeria. *Journal of Biological Sciences* Vol.7 No. 6: 865-869.
17. Uka, U.N., **Chukwuka, K.S.** and Daddy, F. (2007). Water Hyacinth infestation and management in Nigeria Inland Waters: A Review. *Journal of Plant Science* Vol. 2 No. 5: 480-488.
18. **Chukwuka, K.S.** and Omotayo, O.E. (2008). Effects of *Tithonia* green manure and Water Hyacinth compost application on nutrient depleted Soil in South-Western Nigeria. *International Journal of Soil Science* Vol. 3 No. 2: 69-74.
19. Uka, U.N. and **Chukwuka, K.S.** (2008). Chemical control method as a management approach to Water Hyacinth infestation in Nigeria. *Zonas Aridas* Vol. 12 No. 1: 184-190.
20. **Chukwuka, K.S.,** Uka, U.N. and Omotayo, O.E. (2008). Influence of persistence presence of Water Hyacinth on specific physicochemical properties of a freshwater body in Southwestern Nigeria. *Zonas Aridas* Vol. 12 No. 1: 209-217.
21. **Chukwuka, K.S.** and Omotayo, O.E. (2009). Soil fertility restoration potentials of *Tithonia* green manure and Water Hyacinth compost on nutrient depleted soil in South Western Nigeria using *Zea mays* L. as Test Crop. *Research Journal of Soil Biology* Vol. 1 No. 1: 20-30.
22. Omotayo, O. E. and **Chukwuka, K. S.** (2009). Soil fertility restoration techniques in sub-Saharan Africa using organic resources: A Review. *African Journal of Agricultural Research* Vol. 4 No.3: 144-150.
23. Li, Xiaojun; Lin, Xin; Li, Peijun; Liu, Wan; Wang, Li; Ma, Fang and **Chukwuka, K.S.** (2009). Biodegradation of the low concentration of Polycyclic Aromatic Hydrocarbons in soil by microbial consortium during incubation. *Journal of Hazardous Materials* Vol. 172, 601-605.

24. **Chukwuka, K.S.**, Okonko, I.O. and Adekunle, A.A. (2010). Microbial ecology of organisms causing Pawpaw (*Carica papaya* L.) fruit decay in Oyo State, Nigeria. *American-Eurasian Journal of Toxicological Sciences* Vol. 2 No. 1: 43-50.
25. Uka, U.N. and **Chukwuka, K.S.** (2011). Utilization of aquatic macrophytes in Nigerian freshwater ecosystem. *Journal of Fisheries and Aquatic Sciences* Vol. 6 No. 5: 490-498.
26. **Chukwuka, K.S.**; Ikheloa, J.O; Okonko, I.O; Moody, J.O and Makinde, T.A (2011): The Antimicrobial Activities of some Medicinal Plants on *Escherichia coli* as an Agent of Diarrhea in Livestock. *Advances in Applied Science Research* Vol. 2 No. 4, 37–48.
27. Ayodele, P.O; Okonko, I.O; **Chukwuka, K.S** and Michael, V.I (2011): Antiviral effect of *Anthocleista nobilis* root extract on the liver homogenate indices of poultry fowls infected with Newcastle Disease Virus (NDV). *Research Opinions in Animals and Veterinary Sciences* Vol. 1 No. 8, 546-552.
28. Uka, U.N, **Chukwuka, K.S** and Okorie, N (2013): Heavy metal accumulation by *Amaranthus hybridus* L. grown on waste dumpsites in South-Eastern Nigeria. *Journal of Research in Biology* Vol. 3 No. 2, 809-817.
29. **Chukwuka, K.S.**, Iwuagwu, M. and Uka, U.N. (2013). Evaluation of nutritional components of *Carica papaya* L. at different stages of ripening. *Journal of Pharmacy and Biological Sciences* Vol. 6 No. 4: 13-16.
30. **Chukwuka, K.S.** (2013). Markovian prediction of regrowth forest vegetations in Obafemi Awolowo University, Ile-Ife, South-Western Nigeria. *Ecology, Environment & Conservation* Vol. 19 No. 2: 601-609.
31. Uka, U.N., **Chukwuka, K.S.** and Afoke, C. (2013). Heavy metal accumulation by *Telfairia occidentalis* Hook. F. Grown on Waste Dumpsites in South-Eastern Nigeria. *Research Journal of Environmental Toxicology* Vol. 7 No. 1: 47-53.
32. Iwuagwu, M., **Chukwuka, K.S.**, Uka, U.N. and Amandianeze, M.C. (2013). Effects of biofertilizer on the growth of *Zea mays* L. *Asian Journal of Microbiology, Biotechnology and Environmental Sciences* Vol. 15 No. 2: 235-240.

33. **Chukwuka, K.S.**, Okechukwu, R.U. and Azorji, J.N. (2013). Farmer perceptions of cassava bacterial blight disease in Oyo State, South-West, Nigeria. *African Journal of Root and Tuber Crops* Vol. 10 No. 1: 67-74.
34. Uka, U.N., **Chukwuka, K.S.** and Iwuagwu, M. (2013). Relative effects of organic and inorganic fertilizers on the growth of Okra [*Abelmoschus esculentus* (L.) Moench]. *Journal of Agricultural Sciences* Vol. 58 No. 3: 159-166.
35. **Chukwuka, K. S.** and Uka, U. N. (2013). Heavy metal levels in *Carica papaya* L. tree bark as indicator of atmospheric pollution in Abakaliki municipality. *Pollution Research* Vol. 32 No. 4: 723-726.
36. **Chukwuka, K. S.**, Ogunsumi, A. I., Obiakara, M. C. and Uka, U. N. (2014). Effects of decaying leaf litter from *Tithonia diversifolia* (Hemsl) A. Gray, *Vernonia amygdalina* Del. and inorganic fertilizer on the growth of cassava (*Manihot esculenta* Crantz). *International Journal of Agriculture and Crop Sciences*. Vol. 7 No. 6: 353-357.
37. **Chukwuka, K.S.**, Omogiade, S. and Uka, U.N. (2014). Restoration of spent oil degraded soil with bio- and inorganic fertilizers using *Manihot esculenta* Crantz as a Test Crop. *Journal of Ecology and Natural Environment*. Vol. 6 No. 7: 226-231.
38. **Chukwuka, K. S.**, Ogunsumi, I. A., Obiakara, M. C., Ojo, O. M. and Uka, U. N. (2014). Effects of decaying leaf litter and inorganic fertilizer on growth and development of maize (*Zea mays* L.). *Journal of Agricultural Sciences* Vol. 59 No. 2: 117-127.
39. **Chukwuka, K. S.**, Obiakara, M. C. and Ogunsumi, I. A. (2014). Effects of aqueous plants extracts and inorganic fertilizer on the germination and development of cassava (*Manihot esculenta* Crantz). *African Journal of Root and Tuber Crops* Vol. 11 No. 1: 10-16.
40. **Chukwuka, K. S.**, Uka, U. N. and Iwuagwu, M. (2014). Effects of industrial effluents on growth and development of maize (*Zea mays* L.). *Research and Reviews in Biosciences* Vol. 9 No. 6: 219-222.

41. **Chukwuka, K. S.**, Obiakara, M. C. and Ogunsumi, A. I. (2014). Effects of aqueous plant extracts and inorganic fertilizer on the germination, growth and development of maize (*Zea mays* L.). *Journal of Agricultural Sciences* Vol. 59 No. 3: 243-254.
42. **Chukwuka, K.S.** and Ojo, O.M. (2014). Extraction and characterization of essential oils from *Tithonia diversifolia* (Hemsl) A. Gray. *American Journal of Essential Oils and Natural Products* Vol. 1 No. 4: 1-5.
43. **Chukwuka, K.S.**, Uka, U.N. and Omotayo, O.E. (2014). Interaction of Okra [*Abelmoschus esculentus* (L.) Moench] and *Tithonia diversifolia* (Hemsl) A. Gray in an Agroecosystem. *Journal of Agronomy* Vol. 13 No. 4: 187-192.
44. Ndimele, P.E., Kumolu-Johnson, C.A., **Chukwuka, K.S.**, Ndimele, C.C., Ayorinde, O.A. and Adaramoye, O.R. (2014). Phytoremediation of Iron (Fe) and Copper (Cu) by Water Hyacinth [*Eichhornia crassipes* (Mart.) Solms]. *Trends in Applied Science Research* Vol. 9 No 9: 485-493.
45. **Chukwuka, K.S.**, Ajala, S., Nwosu, P.C. and Omotayo, O.E. (2015). Effects of NPK single fertilizers on relative growth performances of two cycles of maize (*Zea mays* L.) grown in a degraded soil of Southwest Nigeria. *Journal of Agronomy* Vol. 14 No. 4: 203-211.
46. Ndimele, P.E., Jenyo-Oni, A., Kumolu-Johnson, C.A., **Chukwuka, K.S.** and Onuoha, S. (2015). Effects of acute exposure to Endosulfan (Organochlorine Pesticides) on hematology of African mud catfish, *Clarias gariepinus* (Burchell, 1822). *Bulletin of Environmental Contamination and Toxicology* Vol. 95: 164-170.
47. Ndimele, P.E., Jenyo-Oni, A., **Chukwuka, K.S.**, Ndimele, C.C. and Ayodele, I.A. (2015). Does fertilizer (N₁₅P₁₅K₁₅) amendment enhance phytoremediation of petroleum-polluted aquatic ecosystem in the presence of water hyacinth (*Eichhornia crassipes* [Mart.] Solms)? *Environmental Technology* Vol. 36 No. 19: 2502-2514.
48. **Chukwuka, K.S.** and Olabintan, O.O. (2016). Characterisation of the regrowth forest types at different stages of maturity in University of Ibadan and environs, South-Western Nigeria. *Nigerian Journal of Botany* Vol. 29 No. 2: 99-120.

49. Ndimele, P.E., Pedro, M.O., Agboola, J.I., **Chukwuka, K.S.** and Ekwu, A.O. (2017). Heavy metal accumulation in organs of *Oreochromis niloticus* (Linnaeus, 1758) from Industrial Effluent-Polluted Aquatic Ecosystem in Lagos, Nigeria. *Environmental Monitoring and Assessment* Vol. 189: 225.
50. **Chukwuka, K.S.**, Okechukwu, R.U., Umukoro, B.O. and Obiakara, M.C. (2017). Arbuscular Mycorrhiza Fungi, NPK (15:15:15) and cow dung interaction in sustainable cassava production and food security. *Advances in Plants and Agriculture Research* Vol. 7 No. 4.
51. **Chukwuka, K.S.** and Omotayo, O.E. (2017). Accumulation of heavy metals *Senna occidentalis* (L.) Link plants cultivated in soils collected from municipal waste dumpsites in Ibadan, Nigeria. *Nigerian Journal of Ecology* Vol.16 No. 2: 101-111.
52. Ndimele, C. C., Ndimele, P. E. and **Chukwuka, K. S.** (2017). Accumulation of heavy metals by wild mushrooms in Ibadan, Nigeria. *Journal of Health and Pollution* Vol. 7, No. 16: 26-30.
53. **Chukwuka, K. S.**, Okechukwu, R. U., Ajani. O. W. and Omotayo, O. E. (2017). Effects of different *Tithonia diversifolia* (Hemsley) A. Gray densities on growth and yield performance of *Manihot Esculenta* Crantz. under field conditions. *African Journal of Root and Tuber Crops* Vol. 12 No. 1: 21-28.
54. **Chukwuka, K. S.**, Erhenhi, H. A., Umukoro, B. O. Jnr. and Lagoh, E. S. (2017). Ethnobotanical survey of stomach ailments treatments among the indigenes of Otu-Jeremi, Ughelli South Local Government, Delta State, Nigeria. *Journal of Science Research* Vol. 16, 39 – 45.
55. Ayesa, S.A, **Chukwuka, K.S.** and Odeyemi, O.O. (2018). Tolerance of *Tithonia diversifolia* and *Chromolaena odorata* in heavy metal simulated-polluted soils and three selected dumpsites. *Toxicology Reports* 5, 1134–1139.
56. Ezukanma, I.O., Tessler, M., Salaam, A.M., **Chukwuka, K.S.** and Ogunniran, A.J. (2019). Epiphytic Bryophytes of Urban Agroforests in Ibadan, Southwest Nigeria. *Journal of Bryology* Vol. 41, No. 4, 341–349.

57. **Chukwuka, K.S.**, Akpabio, U.S and Uka, U.N. (2020). Bioaccumulation of Zinc and Cadmium by two aquatic plants: *Eichhornia crassipes* (Mart.) Solms and *Pistia stratiotes* L. under nursery conditions. *Tropical Plant Research* 7(1): 229–237.
58. Asemoloye, M. D., **Chukwuka, K. S.** and Jonathan, S G. (2020). Spent Mushroom Compost Enhances Plant Response and Phytoremediation of Heavy Metal Polluted Soil. *J. Plant Nutr. Soil Sci.* Vol. 183, 492–499.
59. Komolafe, E. T., **Chukwuka, K. S.**, Obiakara, C. M. and Osonubi, O. (2020). Carbon Stocks and Sequestration Potentials of Ibodi Monkey Forest, Atakumosa West Local Government Area of Osun State, Nigeria. *Trees, Forests and People.* Vol. 2: 100031.

XI. Technical Reports:

Chukwuka, K.S. (1994: Vegetation Studies: In Baseline Ecological Studies of the Forcados Terminal Integrated Projects. Edited by J.A. Faniran, B.B. Adeleke and R.A. Oderinde, pgs 158-159, 186, 198. A report submitted to Shell Petroleum Development Company of Nigeria limited.

Oke, A; Osunwole, A; **Chukwuka, K.S.** and Odubote, D. (2000): Heath and Medicine among the Osooro of Ikale Community, Ondo State; Nigeria. This study was funded by the Ford Foundation as part of the Institute of African Studies (University of Ibadan) collaborative research in physical, technological, medicinal and social Sciences in the Riverine Cultures of Ondo State, Ikale. Pp. 26 (June 2000).

Oke, A; Osunwole, A; Ikporukpo, C.O. and **Chukwuka, K.S** (2000): Ethnographic report of the Ikale Community Ondo State, Nigeria. This study was funded by the Ford Foundation as part of the Institute of African Studies (University of Ibadan) collaborative research. Pp 28, December 2000.

XII. Major Conferences Attended with Papers Read (in the last 5 years):

- (i) 2nd International Conference on Scientific Research and Innovation in Nigeria, held at the University of Ibadan, Ibadan-Nigeria; 16-20 March 2015.

Paper read:

Chukwuka, K.S. and Ajani, O.W.: Effects of different of *Tithonia diversifolia* (Hemsl) A. Gray densities on growth and yield of *Manihot esculenta* Crantz under Field Conditions.

(ii) 23rd International Conference of the Botanical Society of Nigeria (BOSON), held at the University of Lagos, Akoka-Lagos; 16-20 August 2015.

Papers read:

- **Chukwuka, K.S.** and Ajani, O.W.: Effects of different of *Tithonia diversifolia* (Hemsl) A. Gray densities on growth and performance of *Zea mays* L. under field conditions.
- **Chukwuka, K.S.** and Olabintan, O.O: Characterisation of regrowth forest types at different stages of maturity in Ibadan metropolis, Southwestern Nigeria.

(iii) Global Lake Ecological Observatory Network (GLEON). GLEON 17 Chuncheon, South Korea; GLEON 17 Poster Session 12-16 October 2015.

Paper read:

Ndimele, P.E., Owodeinde, F.G., **Chukwuka, K.S.** and Kumolu-Johnson, C.A.: The physico-chemistry and heavy metal concentrations in fish (*Oreochromis niloticus*, Linnaeus 1758) from industrial effluent-polluted aquatic ecosystem in Lagos, Nigeria.

(iv) The Association for the Sciences of Limnology and Oceanography Summer Meeting (ASLO 2016). 2016 Ocean Sciences Meeting at the Ernest N. Morial Convention Centre in New Orleans, Louisiana, USA; 21-26 February 2016.

Paper read:

Ndimele, C.C., **Chukwuka, K.S.** and Ndimele, P.E.: Phytoremediation of heavy metal-polluted aquatic ecosystem (Ologe Lagoon) by water hyacinth (*Eichhornia crassipes* [Mart.] Solms) and the socio-ecological implications.

(v) The Association for the Science of Limnology and Oceanography Summer Meeting (ASLO 2016) held in Santa FE, New Mexico; 5-10 June 2016.

Paper read:

Ndimele, P.E., Whenu, O. O., **Chukwuka, K. S.** and Ndimele, C. C.: Assessment of heavy metals in Ologe Lagoon, their bioaccumulation by water hyacinth (*Eichhornia crassipes* [Mart] Solms) and the socio-ecological implications

(vi) 24th Annual Conference of the Botanical Society of Nigeria (BOSON): Plants and Economic Development; held at the University of Ibadan, Ibadan-Nigeria; 14-18 August 2016.

Papers read:

- **Chukwuka, K.S.** and Omotayo, O.E.: In vitro Propagation Techniques for *Petivera alliacea* L. and *Senna occidentalis* L., Common Medicinal Fallow Plants of Southwest Nigeria.
- **Chukwuka, K.S.** and Obiakara, M.C.: Reproductive Allocation of Nitrogen, Phosphorus and Potassium in *Tithonia diversifolia* (Hemsl) A. Gray.
- The 13th International Symposium of the International Society for Tropical Root Crops-Africa Branch (ISTRC-AB), Dar es Salaam, Tanzania, 5th -10th March 2017.

Paper read:

Chukwuka, K.S., Okechukwu, R.U., Umukoro, B.O. (Jnr.) and Obiakara, M.C. Arbuscular Mycorrhiza Fungi, NPK (15-15-15) and Cow Dung Interaction in Sustainable Cassava Production and Food Security

- The XVIII Triennial Symposium of the International Society of Tropical Root Crops (ISTRC) Colombia, USA, 19th - 27th OCTOBER 2018.

Paper read:

Chukwuka K.S., Okechukwu R.U. and Obiakara M.C. Effects of fresh leaf water extracts of *Tithonia diversifolia* (Hemsl.) A. Gray on the growth and development of *Manihot esculenta* Crantz (Cassava)