











- [4] Lehmann, J., Gaunt, J., Rondon, M. (2006). Biochar sequestration in terrestrial ecosystem – a review. *Mitigation and Adaptation Strategies for Global Change*, 11: 403-427. <https://doi.org/10.1007/s11027-005-9006-5>
- [5] Chan, K.Y., Xu, Z. (2009). Biochar nutrient properties and their enhancement. In *Biochar for Environmental Management: Science and Technology*. J. Lehmann, and S. Joseph (eds.) Earthscan Publishers Ltd. 67-84.
- [6] Sohi, S.P. (2012). Carbon storage with benefits. *Science*, 338(6110): 1034-1035. <https://doi.org/10.1126/science.1225987>
- [7] Liu, Y.G., Tan, X.F., Gu, Y.L., Xu, Y., Zeng, G.M., Hu, X.J., Liu, S.B., Wang, X., Liu, S.M., Li, J. (2016). Biochar-based nano-composites for the decontamination of wastewater: A Review. *Bioresource Technology*, 212: 318-333. <https://doi.org/10.1016/j.biortech.2016.04.093>
- [8] Orge, R.G., Leal, L.V. (2018). Utilizing heat from rice hull biochar production for steam pasteurization of mushroom fruiting bags. *Cogent Engineering*, 5: 1-12. <https://doi.org/10.1080/23311916.2018.1453972>
- [9] Orge, R.F. (2015). Biochar-based technologies for enhanced productivity, efficiency, resilience & adaptive capacity of smallholder rice-based farming communities in the Philippines. MARCO Symposium August, 2015 Tsukuba, Japan. 26-28.
- [10] Chaudhary, D.S., Jollands, M.C. (2003). Characterization of rice hull ash. *Wiley InterScience*, 93(1): 1-8. <https://doi.org/10.1002/app.20217>
- [11] Verma, A., Gautam, S.P., Bansal, K.K., Prabhakar, N., Rosenholm, J.M. (2019). Green nanotechnology: Advancement in phytoformulation research. *Medicines*, 6(39): 1-10. <https://doi.org/10.3390/medicines6010039>
- [12] Lieu, R., Lal, R. (2015). Potentials of engineered nanoparticles as fertilizers for increasing agronomic productions – A review. *Science of Total Environment*, 514: 131-139. <https://doi.org/10.1016/j.scitotenv.2015.01.104>
- [13] Boyles, J., Orge, R.F. (2015). Performance of the continuous-type rice hull carbonizer as heat source in food product processing. *OIDA International Journal of Sustainable Development*, 8(11): 25-34. <https://ssrn.com/abstract=2709112>
- [14] PCARR. (1980). *Standard Methods of Analysis for Soil Plant Tissue, Water and Fertilizer*. Los Baños, Laguna.
- [15] Thomas, G.W. (1982). Exchangeable cations (potassium chloride method). In: A. L. Page, R. H. Miller and D.R. Keeney (eds). *Methods of soil analysis: Part 2. Chemical and Microbiological Properties*. Agron. Monogr. 9. (2nd ed). ASA and SSSA, Madison, WI. 159-165.
- [16] Olsen, S.R., Sommers, L.E. (1982). Phosphorus. In: A.L. Page, R.H. Miller and D.R. Keeney (eds). *Methods of Soil Analysis: Part 2. Chemical and Microbial Properties*. Agron. Monogr. 9. (2nd ed). ASA and SSSA, Madison, WI. 402-430.
- [17] ISRIC. (1995). *Procedure for Soil Analysis* (L. P. Van Reuwijk, Editor). Wageningen, Netherlands, pp. 106.
- [18] Tagoe, S.O., Horiuchi, T., Matsui, T. (2008). Preliminary evaluation of the effects of carbonized chicken manure, refuse derived fuel and K fertilizer application on the growth, nodulation, yield, N and P contents of soybean and cowpea in the greenhouse. *Afri. J. Agric. Res.*, 3(11): 759-774.
- [19] Hench, L.L., West, J.K. (2004). The Sol-Gel process. *Chemical Reviews*, 90(1): 12142-12153. <https://doi.org/10.1021/cr00099a003>
- [20] Real, C., Alcalá, M.D., Criado, J.M. (1996). Preparation of silica from rice husks. *Journal of the American Ceramic Society*, 79(8): 2012-2020. <https://doi.org/10.1111/j.1151-2916.1996.tb08931.x>