

## **Publications**

1. "Preparation and characterization of porous carbon from expanded graphite for high energy density supercapacitor in aqueous electrolyte". F Barzegar, A. Bello, D. Momodu, M. J. Madito, J. Dangbegnon and **N. Manyala**, *J Power Sources*, **309**, 245 (2016)
2. "Preparation and electrochemical investigation of cobalt hydroxide carbonate\_activated carbon nanocomposite for supercapacitor applications". T. M. Masikhwa, J. D. Dangbegnon, A. Bello, M. J. Madito, D Momodu and **N. Manyala**, *J. Phys. and Chem. Solids* **77**, 139 (2016)
3. "Renewable pine cone biomass derived carbon materials for supercapacitor application". A Bello, **N. Manyala** F. Barzegar, A. A. Khaleed, D. Y. Momodu, J. K. Dangbegnon, *RSC Adv.* **6**, 1800 (2016)
4. "A dilute Cu(Ni) alloy for synthesis of large-area Bernal stacked bilayer graphene using atmospheric pressure vapour deposition". M. J. Madito, A. Bello, J. K. Dangbegnon, C. J. Oliphant, W. A. Jordaan, D. Y. Momodu, T. M. Masikhwa, F. Barzegar, M. Fabiane and **N. Manyala**, *J. Applied Physics* **119**, 015306 (2016).
5. "Raman analysis of bilayer graphene film prepared on commercial Cu(0.5 at % Ni) foil". M. J. Madito, A. Bello, J. K. Dangbegnon, C. J. Oliphant, W. A. Jordaan, T. M. Masikhwa, D. Y. Momodu and **N. Manyala**, *J. Raman Spectroscopy*, DOI 10.1002/jrs.4848 (2016)
6. "A facile hydrothermal synthesis of Ni(OH)<sub>2</sub>/GF electrode for supercapacitor application". A.A. Khaleed<sup>1,2</sup>, A. Bello<sup>1</sup>, J. K. Dangbegnon<sup>1</sup>, F.U. Ugbo<sup>1</sup>, F. Barzegar<sup>1</sup>, D. Y. Momodu<sup>1</sup>, J. Madito<sup>1</sup>, T Masikhwa<sup>1</sup>, O. Olaniyan<sup>1</sup>, N. Manyala, *J. Mater. Sci.* **51**, 6041 – 6050 (2016)
7. "A wafer-scale Bernal-stacked bilayer graphene film obtained on a dilute Cu(0.61 at% Ni) foil using atmospheric pressure chemical vapour deposition". M. J. Madito, **N. Manyala**, A. Bello, J. K. Dangbegnon, T. M. Masikhwa and D. Y. Momodu, *RSC Adv.* **6**, 28370 (2016).
8. "Asymmetric supercapacitor based on VS<sub>2</sub> nanosheets and activated carbon materials". T. M. Masikhwa, F Barzegar, J. D. Dangbegnon, A. Bello, M. J. Madito, D Momodu and **N. Manyala**, *RSC Adv.* **6**, 38990 (2016).
9. "Effect of growth time of hydrothermally grown cobalt hydroxide Carbonate on its supercapacitor performance". T. M. Masikhwa, J. D. Dangbegnon, A. Bello, M. J. Madito, D Momodu, , F Barzegar and **N. Manyala**, *J. Phys. and Chem. Solids* **94**, 17 - 24 (2016)
10. "Investigation of different aqueous electrolytes on the electrochemical performance of activated carbon-based supercapacitors". F. Barzegar, D. Y. Momodu, O. O. Fashedemi, A Bello, J. K. Dangbegnon and **N. Manyala**, *RSC Adv.* **5**, 5107482 (2015).
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  22. "K-edge x-ray dichroism investigation of Fe<sub>1-x</sub>Co<sub>x</sub>Si: Experimental evidence for spin polarization crossover", G. R. Hearne, G. Diguët, F. Baudelet, J. -P Itie and **N. Manyala**. *J. Magnetism and Magnetic Materials* **379**, 274 (2015).
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