

Greener synthesis of surface modified nanosized biochar for enhanced simultaneous removal of steroidal hormone and heavy metals from wastewater: Optimization by central composite design.

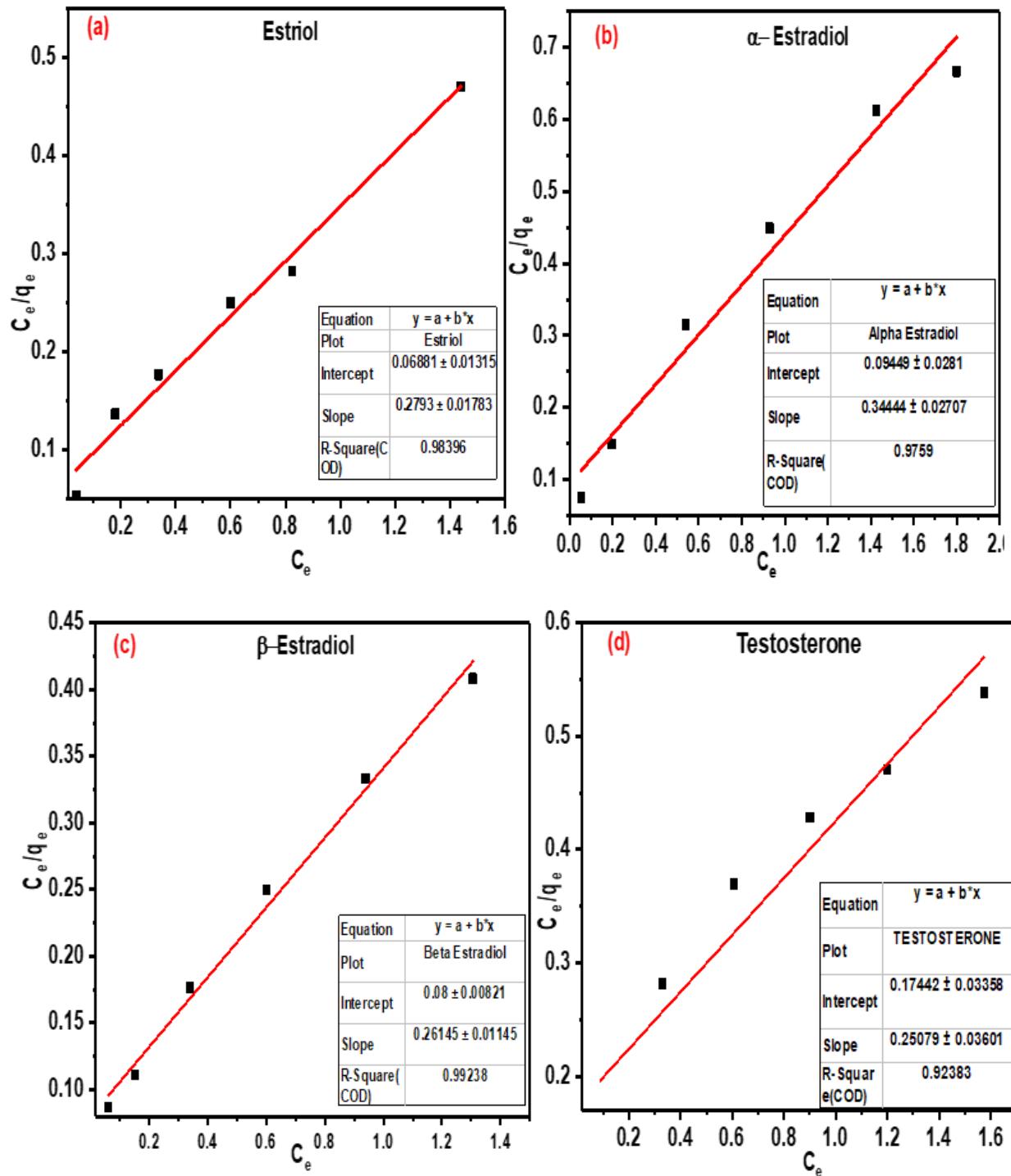
Sefiu Olaitan Amusat¹ (0000-0003-3772-6481), Temesgen Girma Kebede¹ (0000-0001-7083-1772), Edward Ndumiso Nxumalo² (0000-0001-8225-2401), Simiso Dube¹ (0000-0003-1225-5812), and Mathew Muzi Nindi^{2*} (0000-0001-7222-1505)

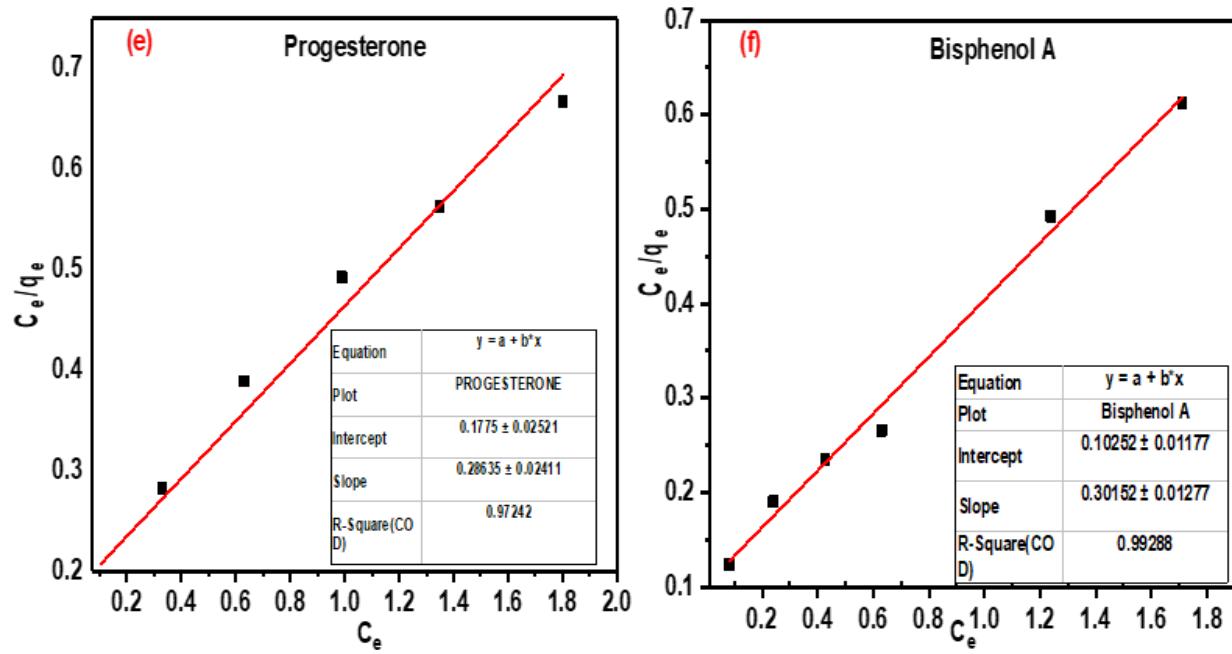
¹Department of Chemistry, College of Science, Engineering and Technology, University of South Africa, The Science Campus, Florida Park, Corner Christian de Wet & Pioneer Avenue, Florida, 1709, South Africa

²Institute for Nanotechnology and Water Sustainability (iNanoWS), College of Science, Engineering and Technology, The Science Campus, University of South Africa, Corner Christian de Wet & Pioneer Avenue Florida Park, 1709, South Africa

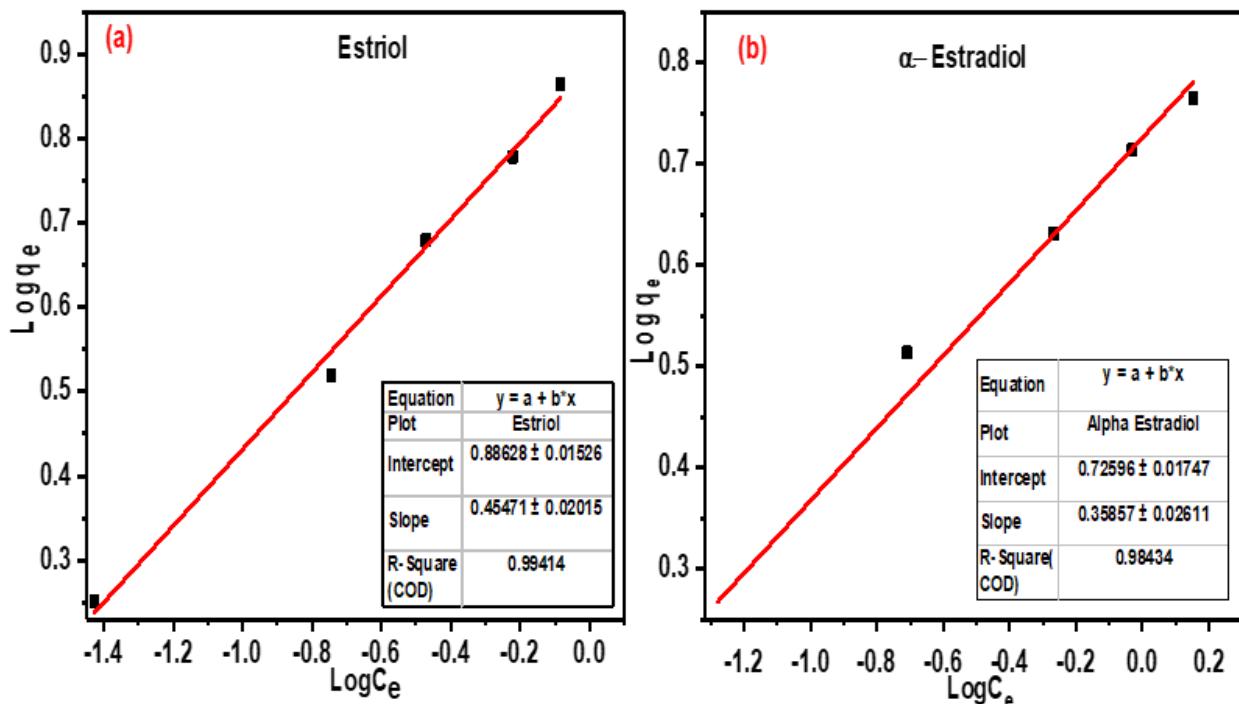
*Corresponding author: 49055313@mylife.unisa.ac.za and nindimm@unisa.ac.za

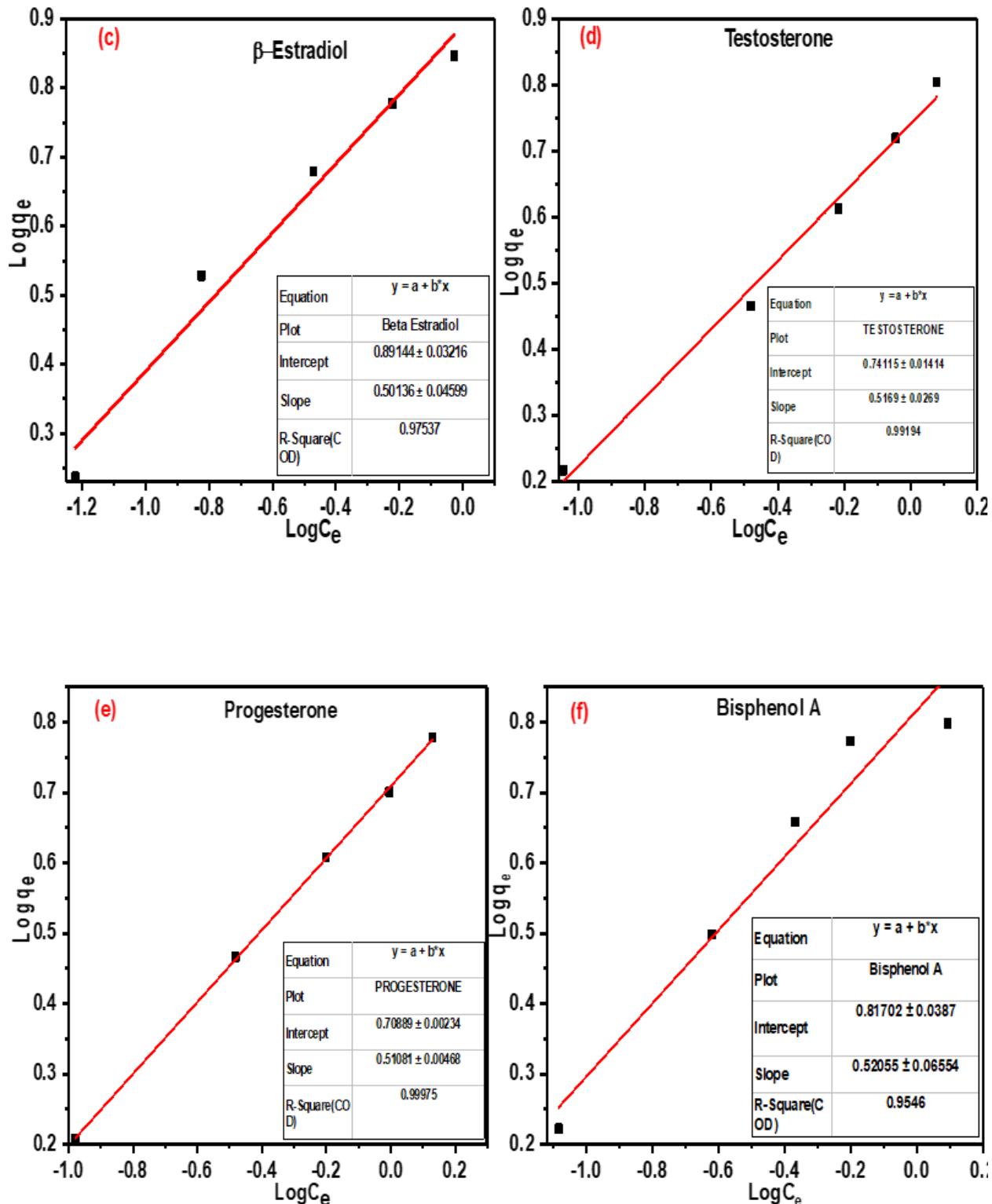
Supplementary material





Langmuir Isotherm model of the adsorption of (a) Estriol, (b) α -Estradiol, (C) β -Estradiol, (d) Testosterone, (e) Progesterone (f) Bisphenol A hormones by ball milled biochar.





Freundlich Isotherm model of the adsorption of (a) Estriol, (b) α -Estradiol, (c) β -Estradiol, (d) Testosterone, (e) Progesterone (f) Bisphenol A hormones by ball milled biochar.

