

Artificial neural network model of the capacity of diethylenetriamine functionalised zinc oxide-apricot stone shell nanocomposite for sequestering 2,4-dichlorophenoxyacetic acid from wastewater

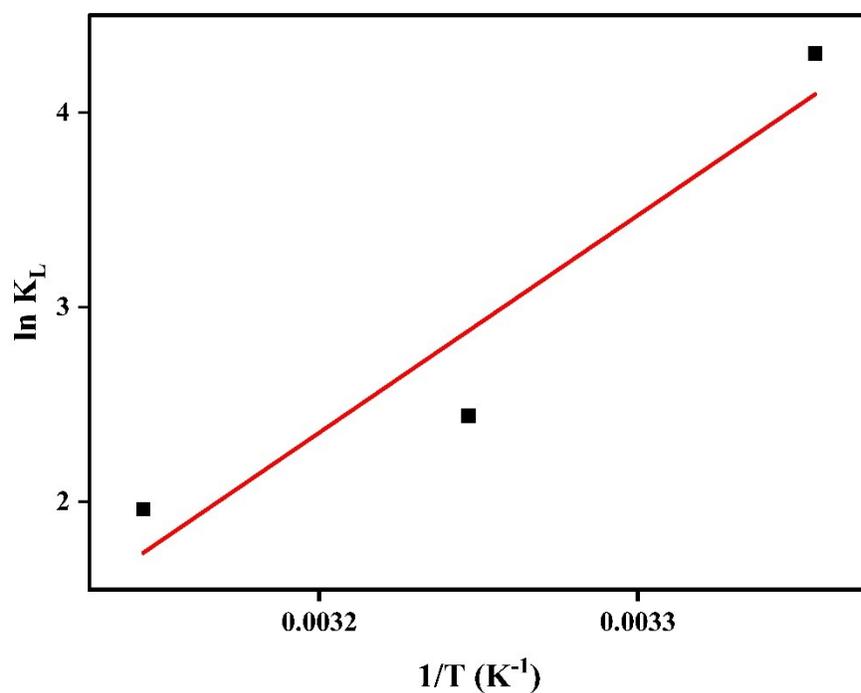
Akinshola Olabamiji Akinola^a, Eswaran Prabakaran^a, Krishna Govender^a, Kriveshini Pillay^a
akinsholaakinola@gmail.com eprabachemistry86@gmail.com krishnag@uj.ac.za kriveshinip@uj.ac.za

^aDepartment of Chemical Sciences, University of Johannesburg, South Africa.

Corresponding author: Kriveshini Pillay

Corresponding author's email: kriveshinip@uj.ac.za

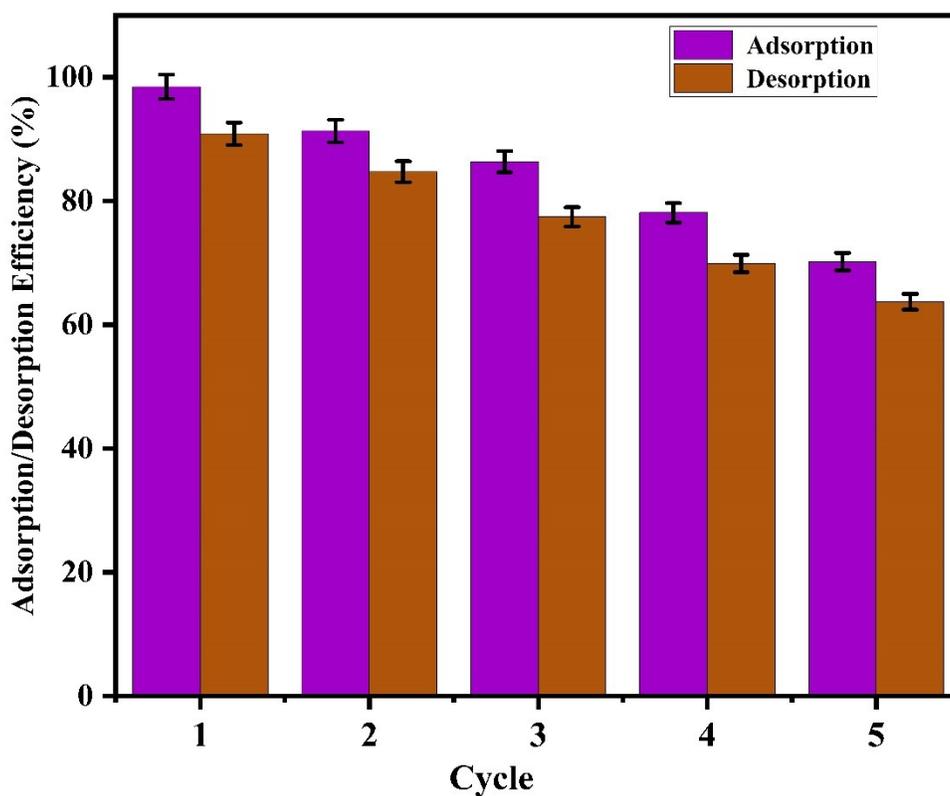
Supplementary Information



S1: Thermodynamic study of the adsorption process.

S2: Thermodynamic parameters of the adsorption of 2,4-D onto ZnO@Ap/DETA

Temp (K)	K_L (L/mol)	ΔG (KJ/mol)	ΔH (KJ/mol)	ΔS (KJ/mol/K)	E_a (KJ/mol)
298	74	-10.66	-92.85	-0.2775	-90.37
308	11.5	-6.254			-90.29
318	7.108	-5.185			-90.21



S3: Five cycles of adsorption/desorption experiments