

$$C_e/q_e = 1/q_m b + C_e/q_m \quad (S1)$$

where, q_m and b are the Langmuir adsorption constant related to maximum monolayer adsorption capacity and energy, respectively.

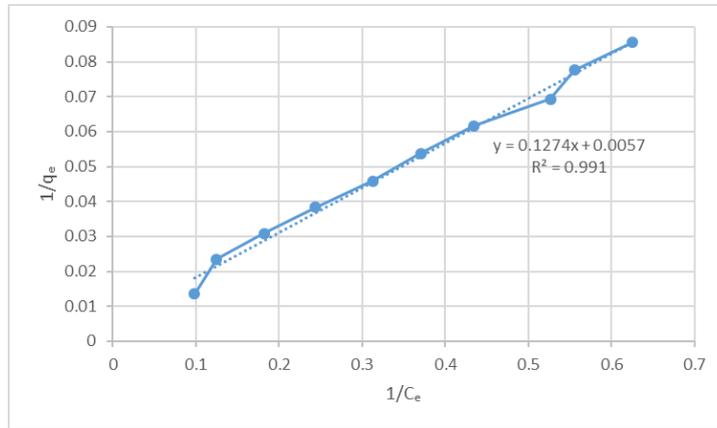


Figure S1. A Langmuir plot ($1/q_e$ vs. $1/C_e$) for phosphate adsorption by CA/GO/SDS at different masses of membrane.

Table S1. Constant parameters and correlation co-efficients calculated for different adsorption isotherm models for phosphate adsorption.

Isotherm	Mass of membrane (g)	constants			
		Q_o	b	R_L	R^2
Langmuir	0.05	175.44	0.04	0.5	0.991
Freundlich	0.05	K_f 7.647	n 1.117		0.9774