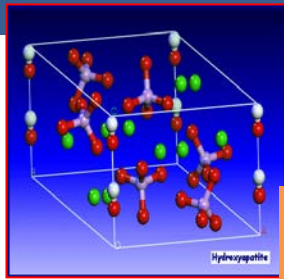
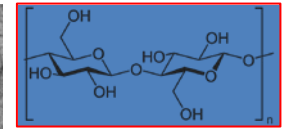
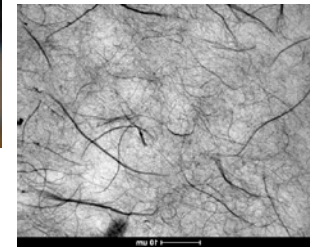


In situ synthesised NanoCellulose – Hydroxyapatite (HAp) based composites for PHENOL & COBALT adsorption

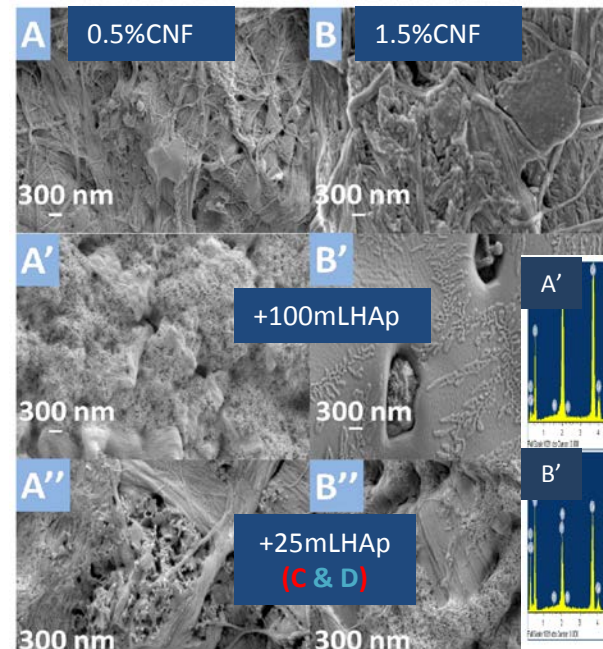


Ca/P = 1.67-1.5
 $\text{Ca}(\text{NO}_3)_2 + (\text{NH}_4)_2\text{HPO}_4$

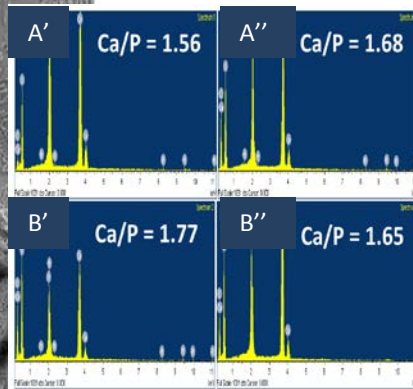
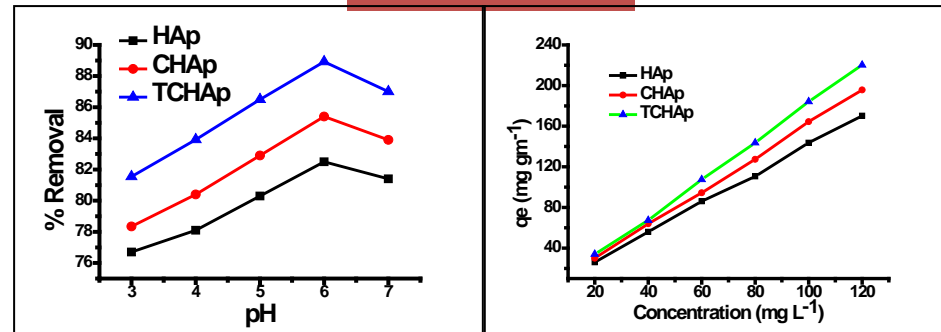
- ✓ Non-toxic
- ✓ Good adsorption capacity
- ✓ Large surface area



CNF
 Tempo-ox-CNF (TCNF)



($\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$)



	2nd order kinetic		Langmuir isotherm	
	q_{\max} (mg gm ⁻¹)	R ²	q_{\max} (mg gm ⁻¹)	R ²
HAp	204	0.94	238	0.99
CHAp	238	0.91	256	0.98
TCHAp	277	0.94	322	0.95

