



Old newspaper (ONP)
+
old magazine (OMG)

Re-pulping



Deinking



Enzymes

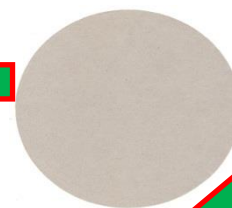
Flotation



Deinked pulp

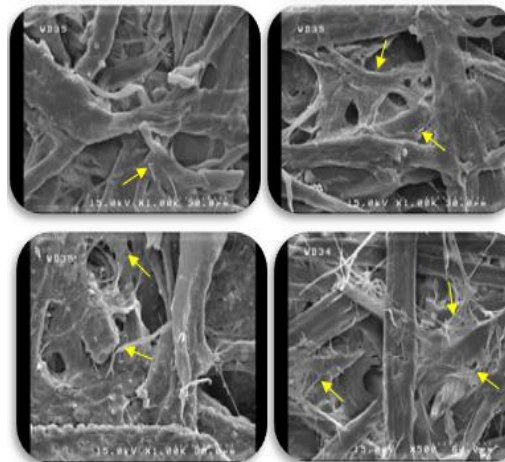


Hand sheet

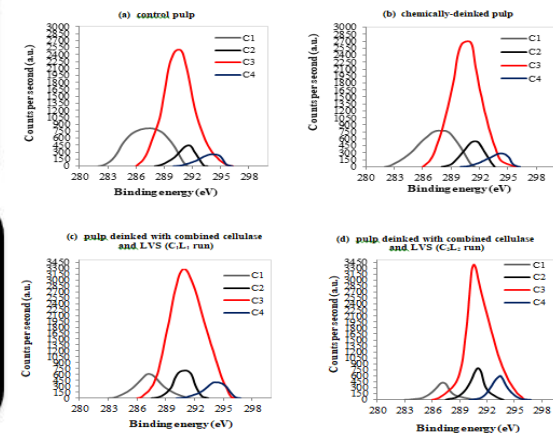


Pulp and paper
analysis

Surface visualization
with FESEM



ESCA analysis



FTIR analysis

Bands (cm ⁻¹)	Relative intensity					
	Control	Chemically deinked pulp	C ₁ L ₁	C ₁ L ₂	C ₂ L ₁	C ₂ L ₂
3375-3332	3.51	3.61	3.79	3.85	3.92	3.98
1635-1652	1.63	1.72	1.89	1.94	1.98	2.07
1610-1595	1.22	1.21	1.09	0.8	0.91	0.71
1510-1508	1	1	1	1	1	1
1430-1420	2.35	2.28	2.12	1.82	1.96	1.67
1378-1371	1.89	1.86	1.61	1.53	1.58	1.41
1268-1251	1.34	1.32	1.29	1.22	1.26	1.19