

## Supplementary Data

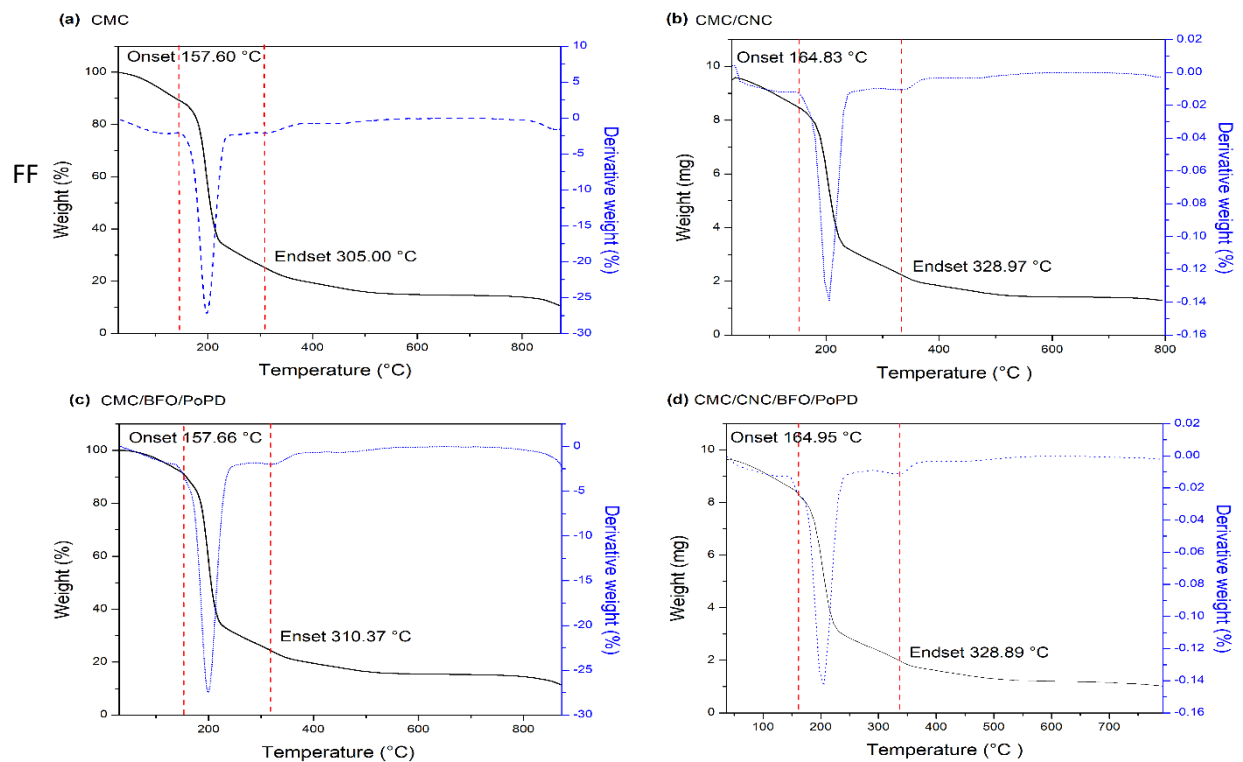
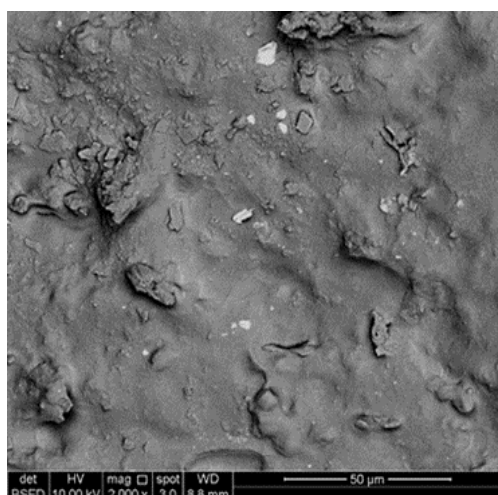


Figure S1 Thermogravimetric analysis of (a) CMC , (b) CMC/CNC<sup>MCC</sup>, (c) CMC/BFO/PoPD and (d) CMC/CNC<sup>MCC</sup>/BFO/PoPD composite film



Element	Weight%	Atomic%
C	38.32	48.26
N	2.97	3.20
O	48.52	45.87
Na	2.90	1.91
Fe	1.18	0.32
Bi	6.11	0.44
Totals	100.00	

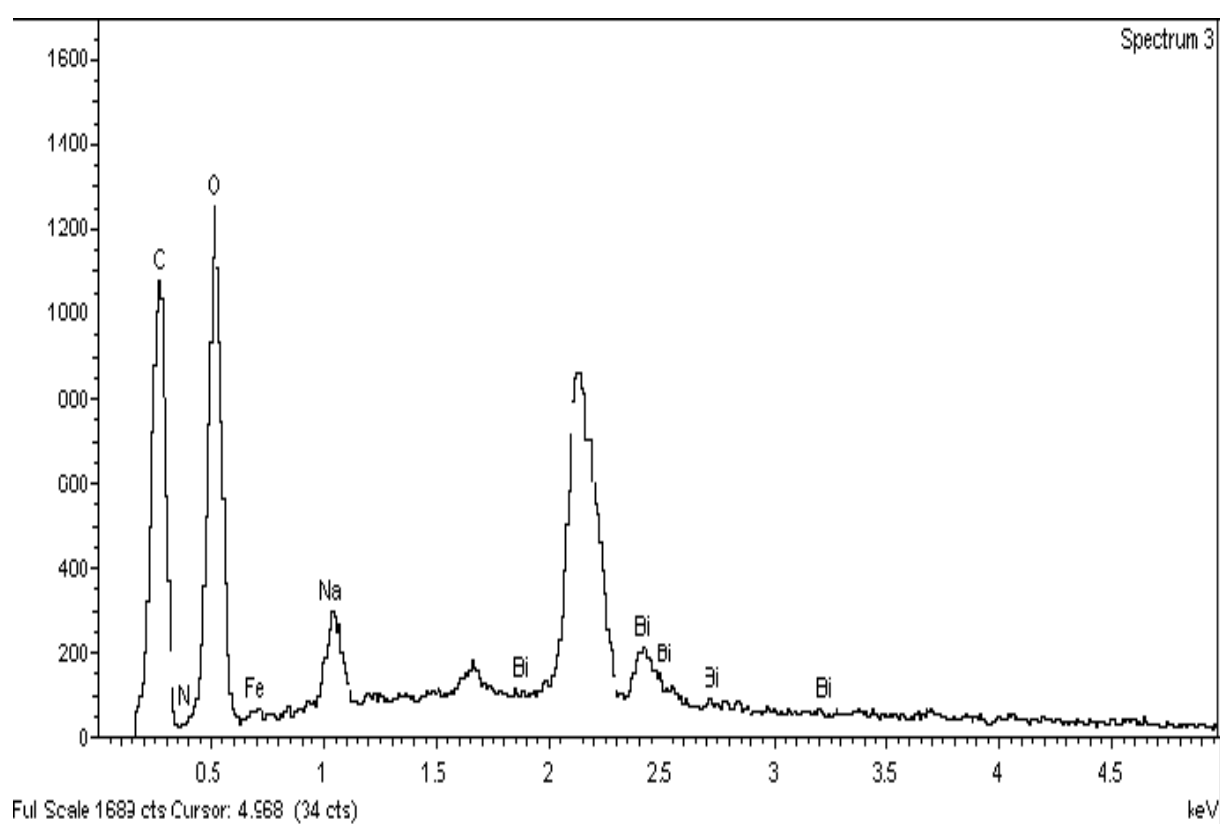


Figure S2: The SEM-EDX of CMC/CNC<sup>MCC</sup>/BFO/PoPD nanocomposite film.