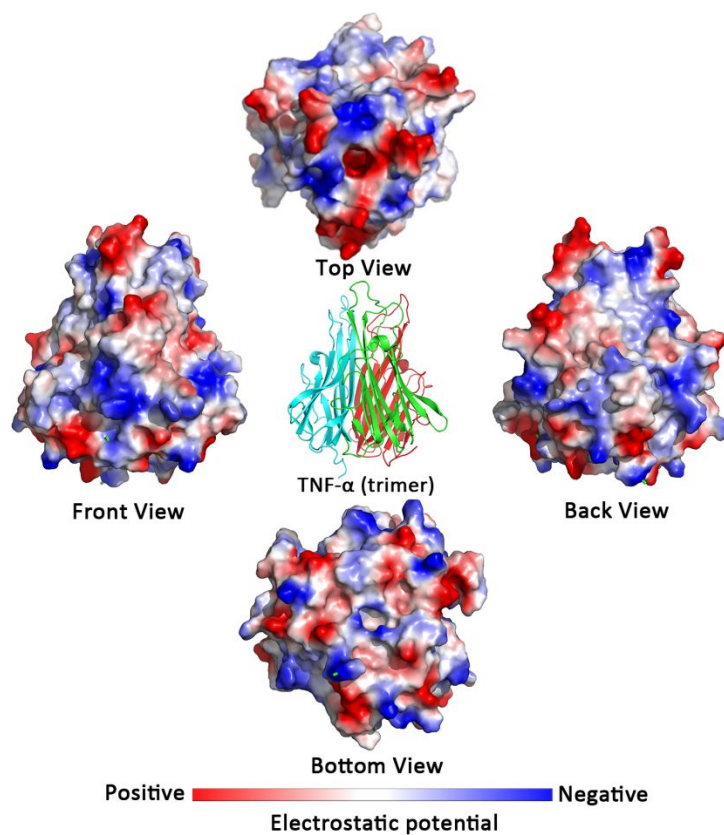
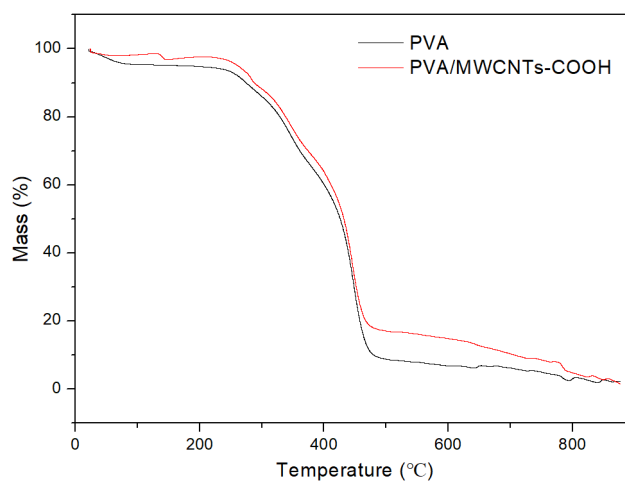


## Supporting Information



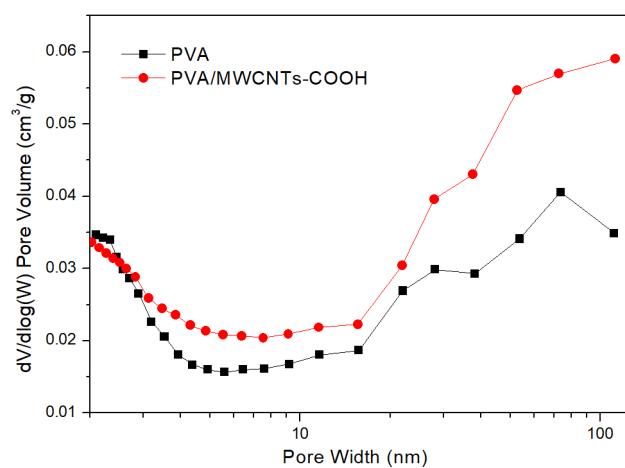
**Fig. S1** Electrostatic surface potential of TNF- $\alpha$  at different views (pH 7.4).



**Fig. S2** Thermogravimetric analysis (TGA) of hybrid material

**Table S1** Surface area, pore volume and pore size of PVA and PVA/MWCNTs-COOH as determined by nitrogen sorption method.

	Specific surface area (m <sup>2</sup> /g)	Pore volume (cm <sup>3</sup> /g)	Mean pore size (nm)
PVA	24	0.053	9.09
PVA/MWCNTs-COOH	27	0.071	10.65



**Fig. S3** BJH pore-size distribution as determined by nitrogen sorption method