

# Supplementary materials

**Table S1.** Mechanical properties of PVA and nanocomposite 3%MG/PVA.

Sample	Process	Tensile strength (MPa)	Yield strength (MPa)	Elongation at break (%)
Process 1	U1+U2	43.1±1.9	21.8±1.1	31.5±6.2
Process 2	U2+U3	45.6±2.5	22.3 ±2.4	35.9±5.8
Process 3	U1+U3	34.7±3.6	18.6±2.6	27.4±4.4
Process 4	U1+U2+U3	46.8±2.3	23.5±3.1	35.7±5.6