

**Fabrication of ternary biocomposite film based on polyvinyl alcohol, cellulose nanocrystals,
and silver nanoparticles for food packaging**

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Supporting information

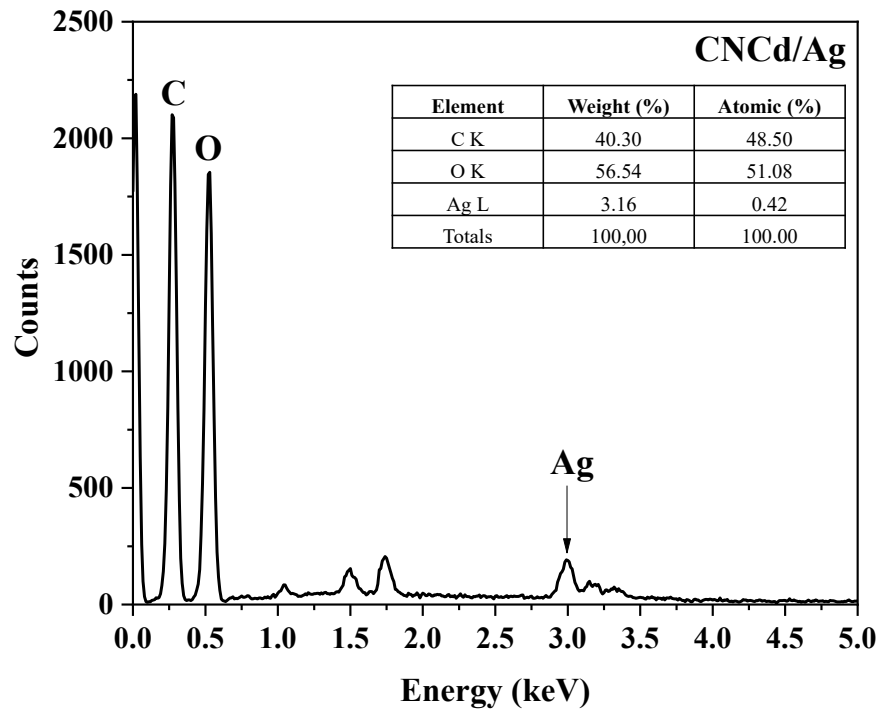


Fig. S1. EDX spectra of CNCd/Ag

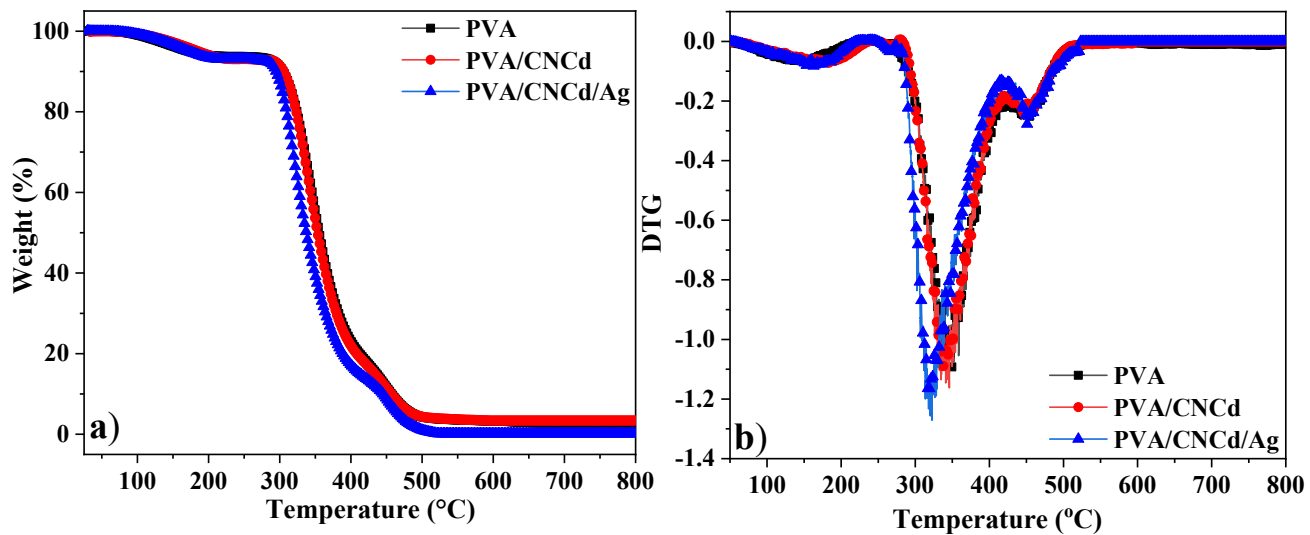


Fig. S2. TGA (a) and DTG (b) curves of PVA, PVA/CNCd, and PVA/CNCd/Ag films

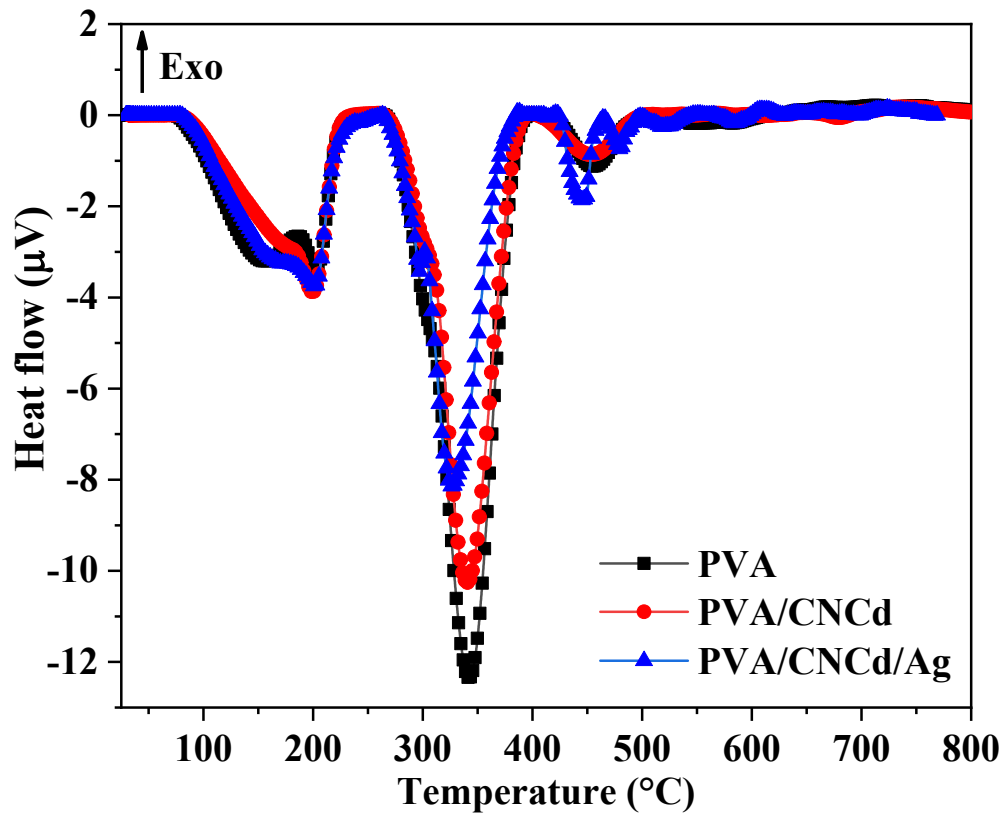


Fig. S3. DTA curves of PVA, PVA/CNCd, and PVA/CNCd/Ag films