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## Supporting Information

## Mechano-tunable circularly polarized luminescence of flexible nanocomposite films

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Figure S1. TEM image of uniform distribution of Ag NWs (Scale bar: 500nm).



Figure S2. UV-vis spectra of Ag NWs solution.



**Figure S3.** (a) CD spectra of the composite film at various rotation angles (b) CD spectra of the hybrid film upon flipping.



**Figure S4.** (a) CD spectra of the hybrid films (i) CCW, (ii) CW after doping with DPcz. (b) CPL spectra the hybrid films (i) CW, (ii) CCW after doping with DPcz.



**Figure S5.** CPL spectra of the composite film doped with Rh B prepared by (a) CCW or (b) CW stirring: (i) the front side or (ii) back side.



Figure S6. The stress-strain curve of the composite film.



**Figure S7.** The dynamic stretching-state CD spectra of the hybrid films (a) PVA/AgNWs/DBcz/WPU and (b) PVA/AgNWs/Rh B/WPU at different stretch factor (i) 0%, (ii) 50%, (iii) 100%, (iv) 150%, (v) 200% respectively.



**Figure S8.** The cycle of the CD spectra of the hybrid film (a) PVA/AgNWs/DBcz/WPU and (b) PVA/AgNWs/Rh B/WPU upon stretching and rebounding.



**Figure S9.** The dynamic stretching-state CPL spectra of the hybrid film PVA/AgNWs/DBcz/WPU and PVA/AgNWs/Rh B/WPU at different stretch factor (i) 0%, (ii) 50%, (iii) 100%, (iv) 150%, (v) 200%, respectively.



**Figure S10.**Cycles of the CPL spectra at 600 nm upon stretching and rebounding PVA/AgNWs/Rh B/WPU).



Figure S11.Phosphorescence spectra of the hybrid film after stopping UV excitation.