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Coaxial electrospinning can be used to achieve a good dispersion of small molecules into polymers. The dispersion of Alq3 in a PVK matrix was greatly improved when the core fluid was a solution of PVK/Bphen at a flow rate of 0.5 mL and the outer fluid was PVK/Alq3 at a flow rate of 1mL/h, at the applied voltages, and led PVK/Bphen/Alq3 composite fibers to emit a bright green fluorescence under UV-illumination. As shown in the fluorescence microscope image of co-electrospun fibers processed from the PVK/Bphen solution connected A) to the inner needle, and B) to the outer needle. (DOI: 10.1002/app.44019)



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