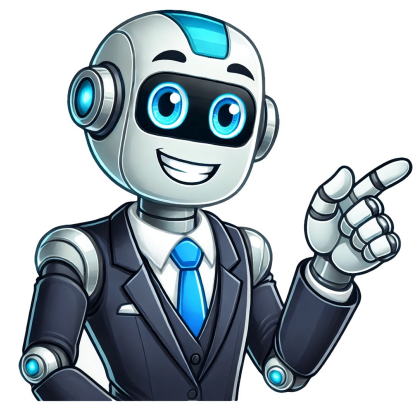


I'm not a robot



























[illegible]

crystallites over time, such as the below examples of F3HT films, PCBM crystallites and F8BT aggregates, all of which will form if an ink is left standing for long times (hours to days).PCBM crystallites under an optical microscopeF3HT aggregates in a thin film via AFMF8BT aggregation in a working OLED pixelSeveral weeks storage prior to spin coating90 minutes cooling prior to spin coatingAggregation during spin coating at low speed - filtered immediately prior to spinningAggregates of different materials and the approximate timescales required. In all cases the solutions were filtered prior to storage.In some cases it's possible to re-dissolve these particles by re-heating/stirring and often it's worth filtering a second time after the solution has cooled. However, in some cases, such as for PCBM, the energy of crystallisation is significant and therefore it's very difficult, if not impossible (depending on the solvent) to re-dissolve them, therefore fresh solutions should be used each time.However, before filtering any solution it is always worth considering the size of any solutes relative to the filter pore size; while polymers, PCBM, and small nanoparticles (