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Supporting Information for

Effect of aggregation behavior and phenolic hydroxyl group content on the performance of lignosulfonate doped PEDOT as hole extraction layer in polymer solar cells

NanlongHong,[a,b] Xueqing Qiu*[a,b] Wanyuan Deng,[c] Zhicai He*[c] and Yuan Li*[a,b]

[a]School of Chemistry and Chemical Engineering, South China University of Technology, Guangzhou, China
[b]State Key Laboratory of Pulp and Paper Engineering, South China University of Technology, Guangzhou, China
[c]Institute of Polymer Optoelectronic Materials and Devices, State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou, China.

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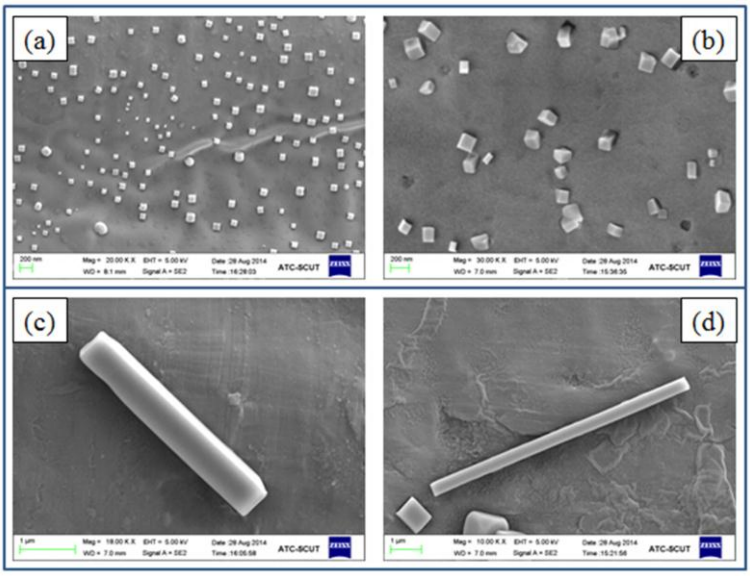

Figure S1. Scanning electron microscopy (SEM) images of various block-like self-assemblies from LS (a,b) and ALS (c,d).

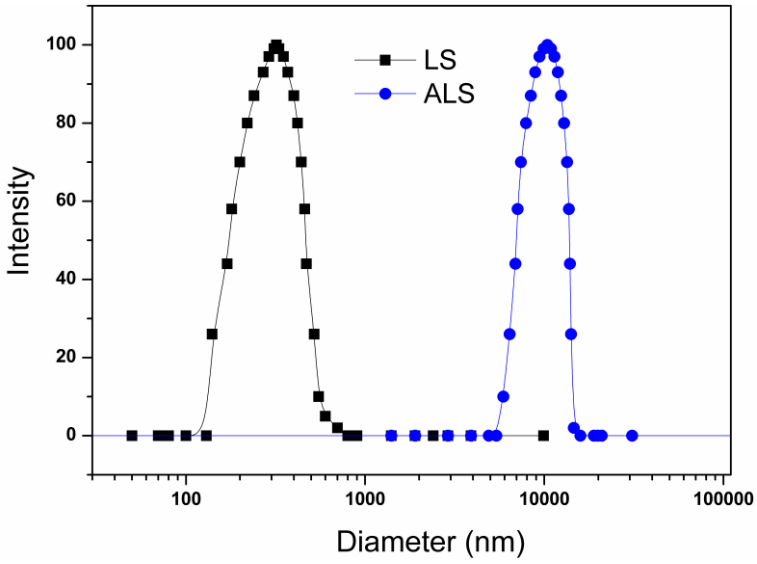

Figure S2. Dynamic light scattering (DLS) measurement of LS solution and ALS solution (0.05 mg mL^{-1}) in H_2O/EtOH (v/v, 1/3).

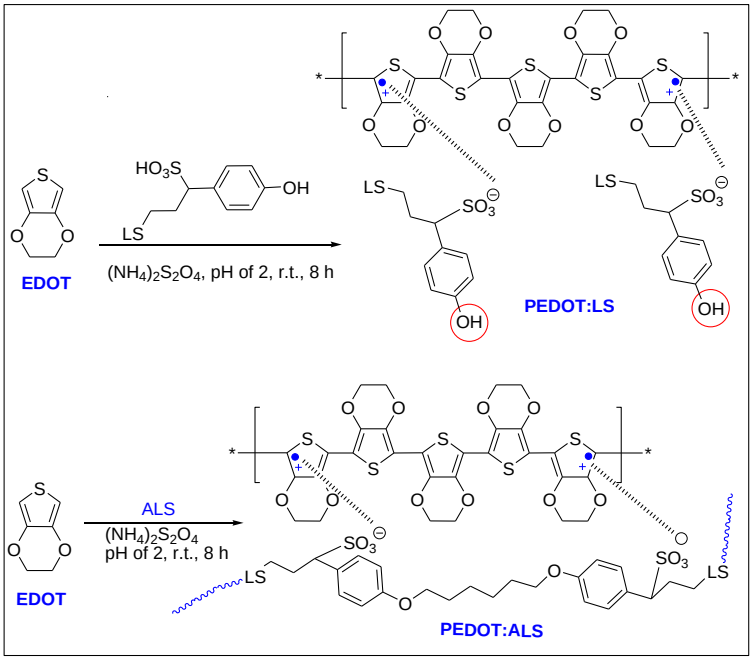

Figure S3. Proposed schematic for the polymerization of EDOT in the presence of LS (up) and ALS (down) polyelectrolyte templates.

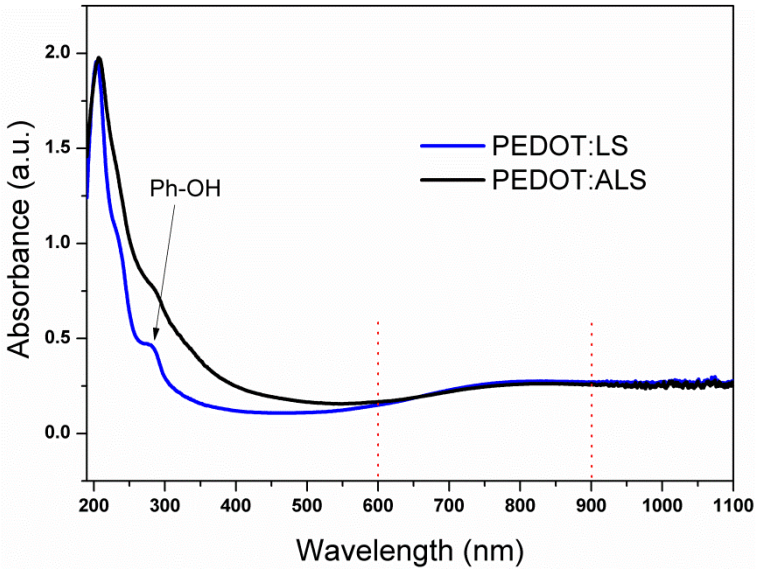

Figure S4. UV absorption spectra of PEDOT:LS and PEDOT:ALS aqueous dispersion.