

TableS1. A comparison of the viscosity (in mPa.s) of PS solution with different mixing ratio of DMF and THF solvents

| DMF:THF | PS Concentration (wt. %) | | | | | |
|---------|------------------------------|----|-----|------|----------------------------------|------------|
| | 0 | 10 | 20 | 30 | 14 | 14 |
| | Reported Values in Ref. [18] | | | | Predicted value as per Ref. [18] | Experiment |
| 0:100 | 0.44 | 37 | 297 | 2069 | 84.8 | 81.2 |
| 100:0 | 0.79 | 24 | 210 | 924 | 58.3 | 54 |

TableS2. Fractional solubility parameters of binary solvent mixed in different ratios for electrospinning PS solution

| Solvent ratio (DMF:THF) | $100f_d$ | $100f_p$ | $100f_h$ |
|-------------------------|----------|----------|----------|
| 0:100 | 55 | 19 | 26 |
| 30:70 | 50.8 | 22.9 | 29.3 |
| 50:50 | 48 | 25.5 | 31.5 |
| 70:30 | 45.2 | 28.1 | 33.7 |
| 100:0 | 41 | 32 | 37 |