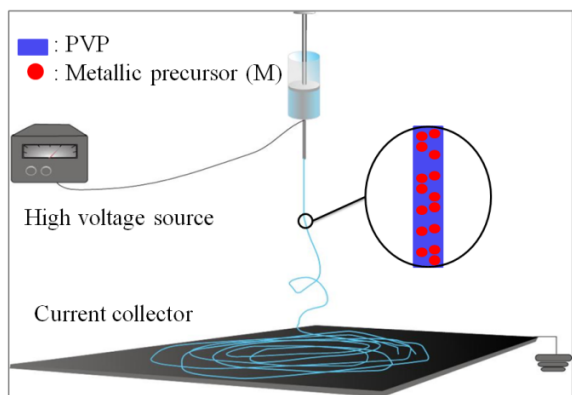


Supporting Information



5

Figure S1 Schematic diagram illustrates the electrospinning set up.

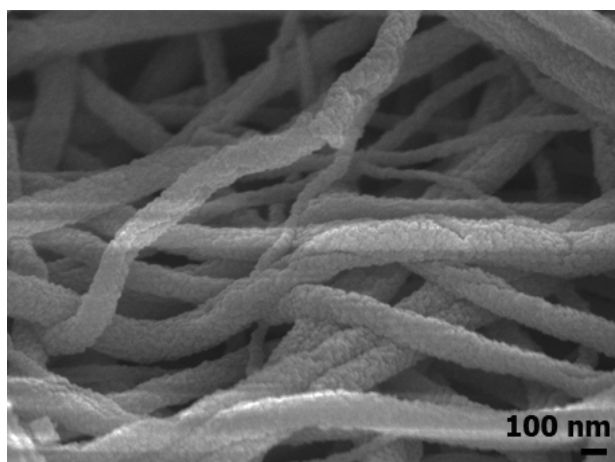


Figure S2 FESEM micrographs of nanofibers sintered at 350 °C, the diameter of nanofibers (~100-150 nm) is relatively smaller than as-spun fibers.

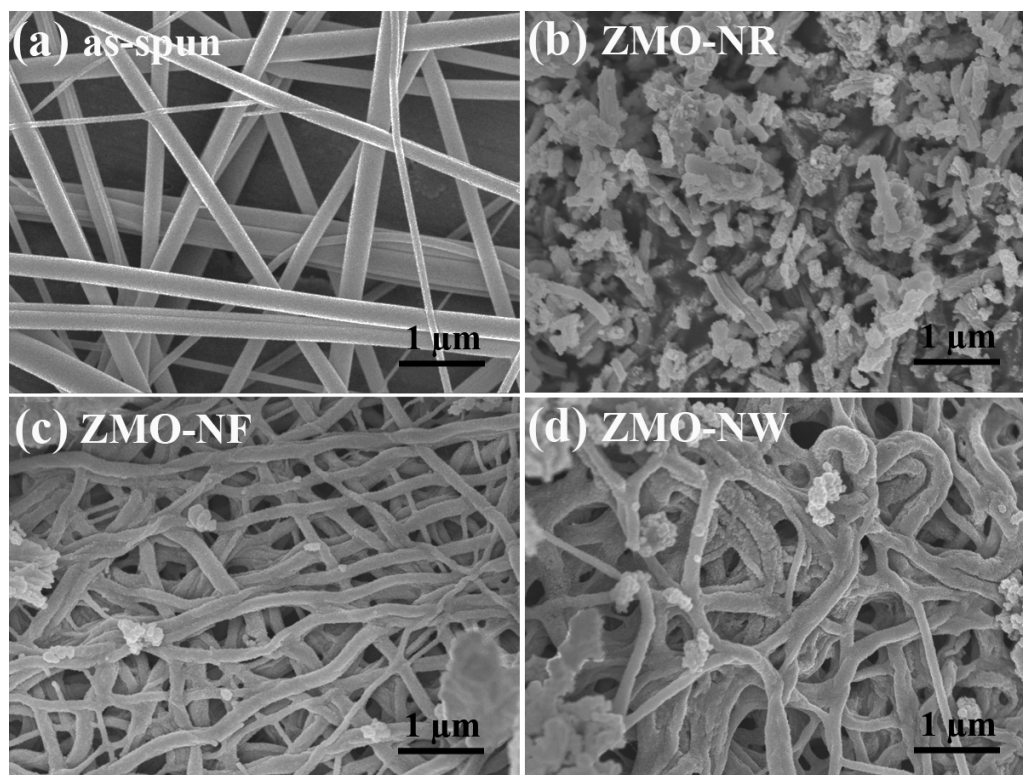


Figure S3 FESEM micrographs at low magnification to disclose the homogeneity of nanostructures obtained by electrospinning, (a) as-spun nanofibers, (b) ZMO-NR, (c) ZMO-NF and (d) ZMO-NW.

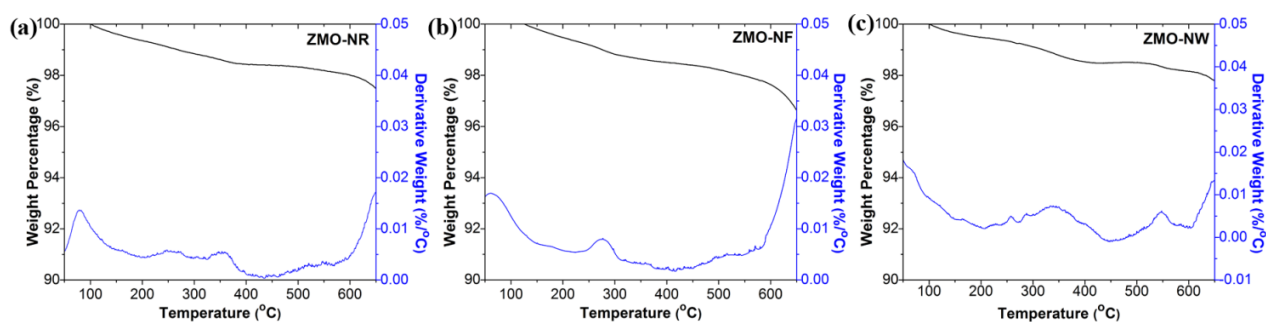


Figure S4 proves the PVP residual content in sintered (a) ZMO-NR, (b) ZMO-NF and (c) ZMO-NW is less than 4 wt%.

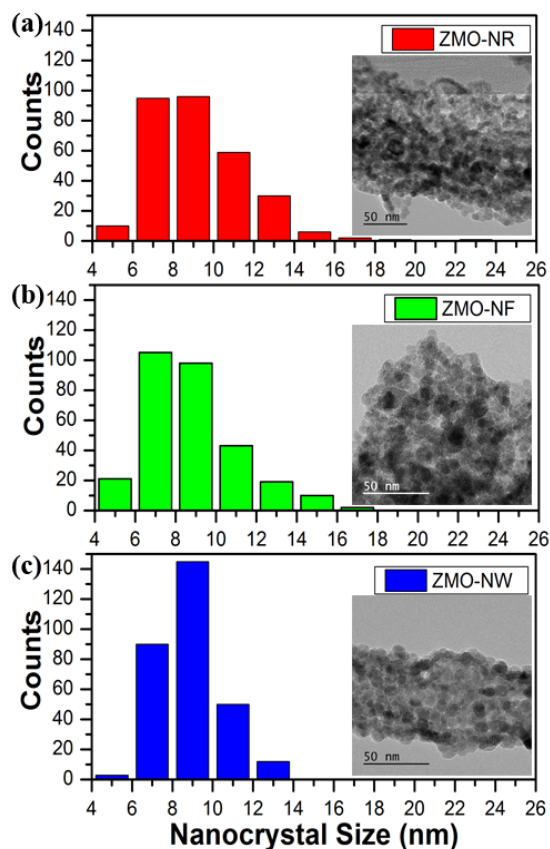


Figure S5 Size distribution of nanocrystals in ZMO-NR, ZMO-NF and ZMO-NW compiled by measuring 300 nanocrystals in HRTEM images (inset in the histogram) of different regions within the samples.

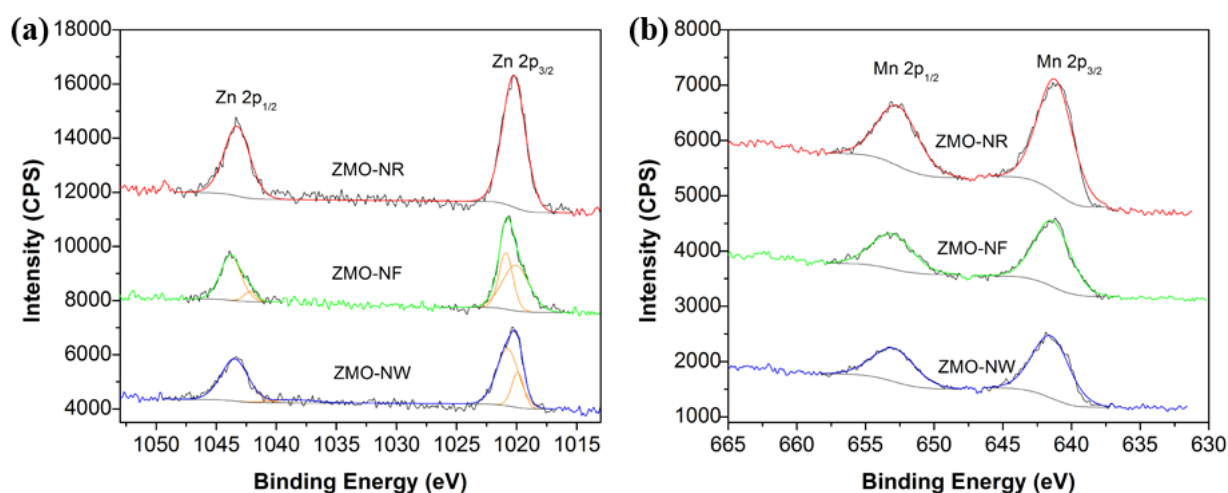


Figure S6 Zn and Mn XPS multiplex scans of ZMO-NR, ZMO-NF and ZMO-NW.