

Supporting Information

Novel Wearable Polyacrylonitrile/Phase-change Materials Sheath/Core Nano-fibers Fabricated by Coaxial Electro-spinning

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Supporting Information

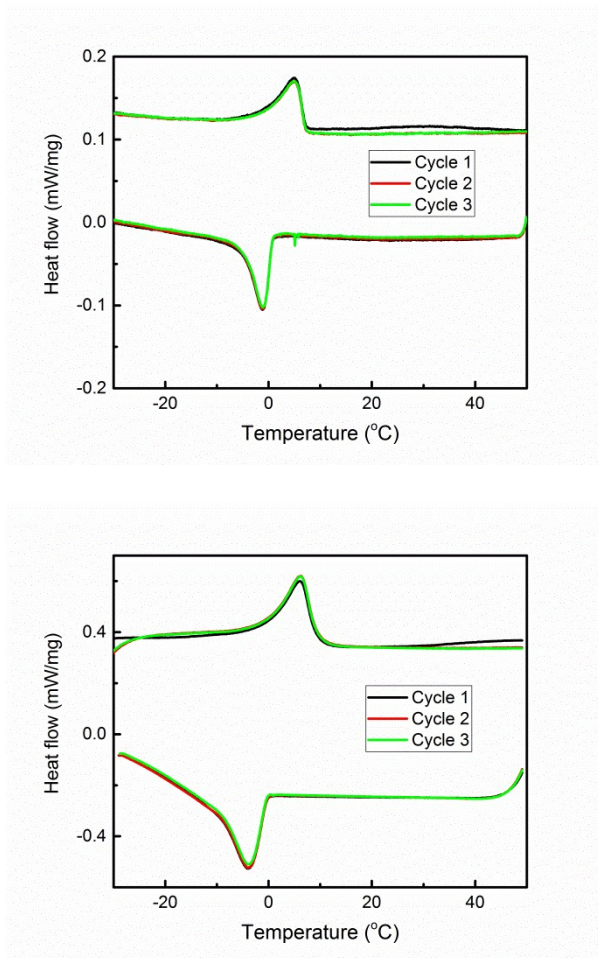


Figure.S1 DSC Curves of PAN/paraffin oil sheath/core nano-fibers at heating/cooling rates of (A) 2 °C/min and (B) 10 °C/min, respectively. Fibers were initially cooled down to -36°C, then heated up to 50 °C, followed by cooled down to -30 °C. The heating/cooling cycle was repeated for another 2 times.

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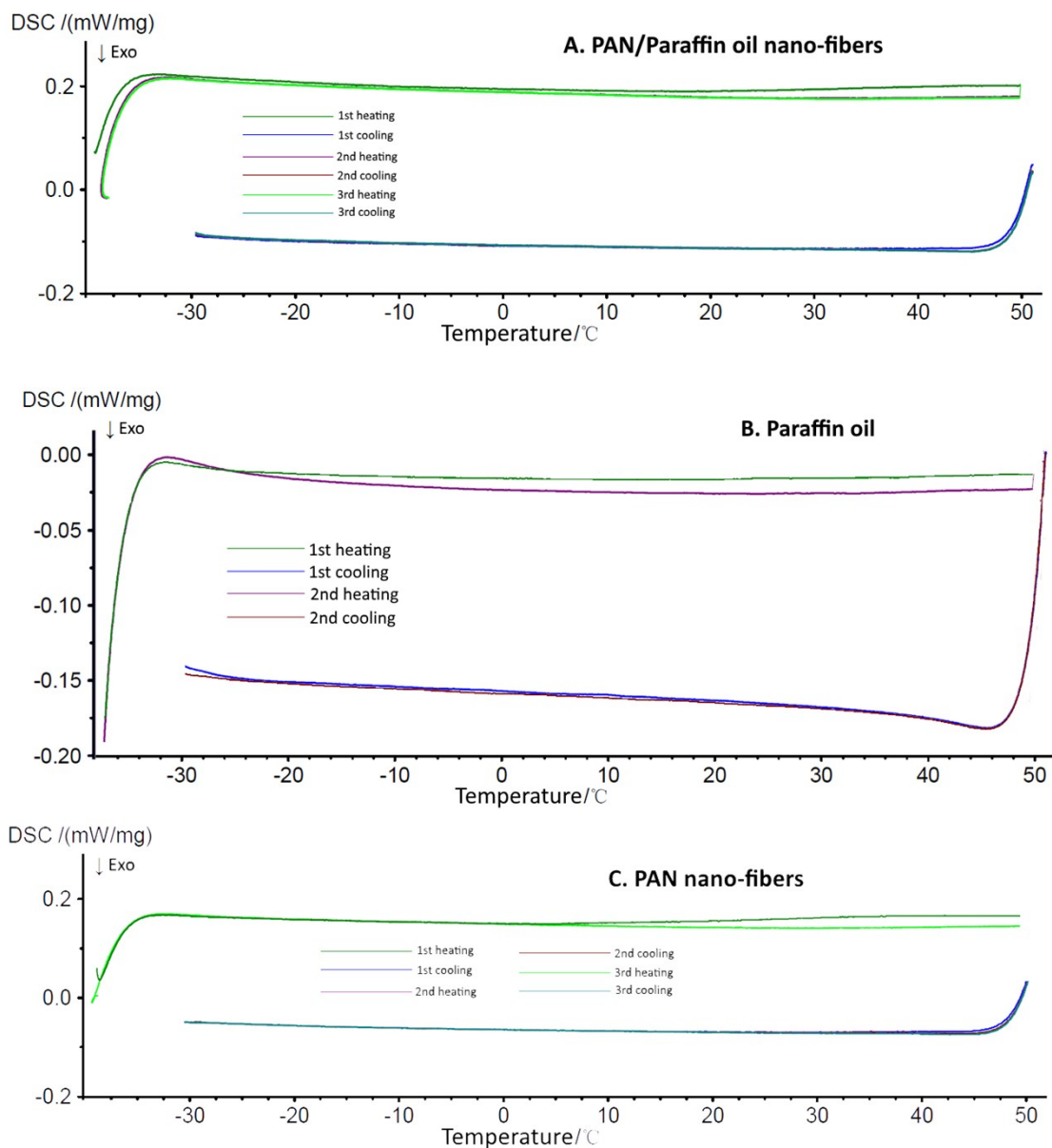


Figure.S2 DSC Curves of (A) PAN/paraffin oil sheath/core nano-fibers, (B) paraffin oil, and (C) PAN nano-fibers. Fibers were initially cooled down to -36°C, then heated up to 50 °C at a heating rate of 5 °C/min, followed by cooled down to -30 °C at a cooling rate of 5 °C/min. The heating/cooling cycle was repeated for another 1 or 2 times.

PAN nano-fibers were prepared under the exactly same condition as PAN/paraffin oil nano-fibers. PAN nanofibers, PAN/paraffin oil nanofibers, and paraffin oil have no thermal transition in the temperature range between -30 to 50 °C.