Transparent and Iridescent Photonic Films with Intelligent Responsive Ability based on Electrospun Core-Shell Nanofibrous Membranes

Yang Shen^a, Hao Luo^a, Jiazi Hou*^a, Fengwei Xie^b

^a Key Laboratory of Automobile Materials of Ministry of Education, College of Materials Science and Engineering, Jilin University, Changchun 130025, China.

^b School of Engineering, Newcastle University, Newcastle upon Tyne, NE1 7RU, United Kingdom

* Corresponding author at houjiazi@jlu.edu.cn



Figure S1. SEM images of (a) PAN, (b) PVA, (c) PVA@GLU electrospun membranes. (Scale bar: 1000 nm).



Figure S2. XRD pattern and AFM image of CNC.



Figure S3. SEM image and EDS mapping analysis of CNC/PAN/PVA@GLU film.



Figure S4. Stain-stress curves for CNC, CNC/PVA, CNC/GLU, CNC/PAN/PVA and

CNC/PAN/PVA@GLU films.



Figure S5. Photograph showing the good flexibility of CNC/PAN/PVA@GLU film.