Supporting Information

for

THERMO-RESPONSIVE COPOLYMER POLY(N-VINYLCAPROLACTAM) GRAFTED CELLULOSE NANOCRYSTALS: SYNTHESIS, STRUCTURE, AND PROPERTIES

Jinlong Zhang[1], Qinglin Wu[1*], Mei-Chun Li[1], Kunlin Song[1], Xiuxuan Sun[1], Sun-Young Lee[2], and Tingzhou Lei[3*]

[1]School of Renewable Natural Resources, Louisiana State University Agricultural Center, Baton Rouge, LA 70803, USA

[2]Department of Forest Products, Korea National Institute of Forest Science, Seoul, 130-712, Republic of Korea

[3] Key Biomass Energy Laboratory of Henan Province, Zhengzhou, 450008, Henan, China

Corresponding Authors

* E-mail: wuqing@lsu.edu and leitingzhou@163.com

Supporting information consists of 3 pages (1 Table, and 1 Figure).

Table S1 Atomic percentage of CNCs, Br-CNCs and PVCL-g-CNC copolymer

Samples	O 1s (%)	C 1s (%)	N 1s (%)	Br 3d (%)	O/C (%)
CNCs	42.64	57.36	—	—	74.34
Br-CNCs	26.50	49.58	—	23.92	53.44
PVCL-g-CNCs	16.78	69.70	6.91	6.62	24.07

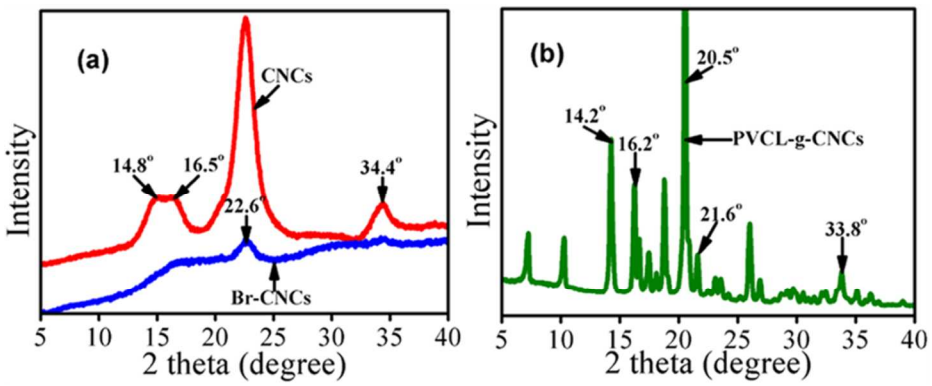

Figure S1 WAXD patterns of CNCs (a), Br-CNCs (a) and PVCL-g-CNCs (b)