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Title: Ion-Responsive Liquid Crystals of Cellulose Nanowhiskers Grafted with Acrylamide

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HIGHLIGHTS

- The AM-g-CNW suspension exhibited the line-type fingerprint birefringence.
- The dry AM-g-CNW film presented the typical flower petal texture.
- The AM-g-CNW suspension containing a few hydroxide ions formed the different birefringence textures.
- The AM-g-CNW might be useful due to their sensitivity towards ionic species.

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