



Cellulose Nanocrystals

What are cellulose nanocrystals (CNCs)?

CNCs are essentially cellulose molecules obtained through chemical processing of biomass, typically wood-based, but others can be used like perennial plants or marine-based. CNCs can present a particular advantage for BC by using underutilized wood species and convert them into a high-value cellulose nanomaterial for applications ranging from pharmaceuticals to electronics and bioplastics.

SOME KEY FACTS

- Carbon-neutral, renewable and sustainable
- Can be used to create high-value materials and structures
- Nanomaterials with unique attributes –photonic, electronic, reinforcement, etc.
- Indigenous communities can benefit from this technology
- Production doesn't require expensive capital
- Can help revitalize rural BC
- Can be integrated with high-tech start-ups in BC