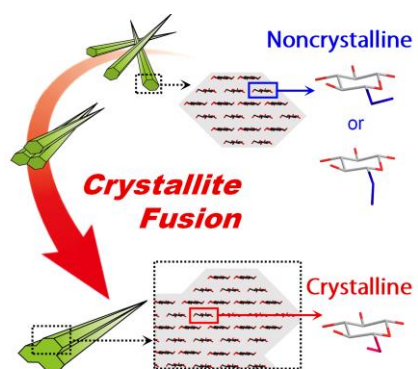


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Grain boundaries within an aggregate of crystalline cellulose nanofibers (CNFs) are crystallized by enhancing their inter-crystallite interactions; multiple crystallites are coupled into single fusion crystals without passing through a melting or dissolving state. Accordingly, thermal energy transfer within the CNF aggregate is significantly improved.