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### **ACCEPTED MANUSCRIPT**

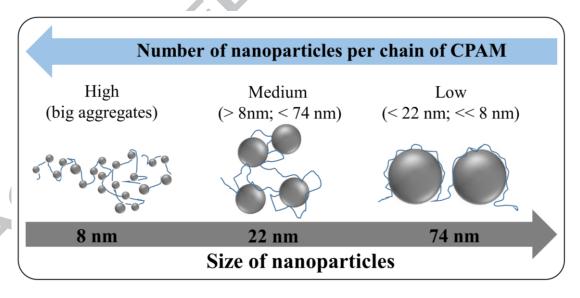
# Effect of Nanoparticles Size and Polyelectrolyte on Nanoparticles Aggregation in a Cellulose Fibrous Matrix

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**Keywords:** Ultra SAXS (USAXS), Polyelectrolyte, Cellulose, Cationic Polyacrylamide (CPAM), Silica

### **Graphical Abstract**



Schematic of nanoparticles (NPs) aggregation/assembly with respect to the conformation of CPAM polyelectrolyte onto NPs size.

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