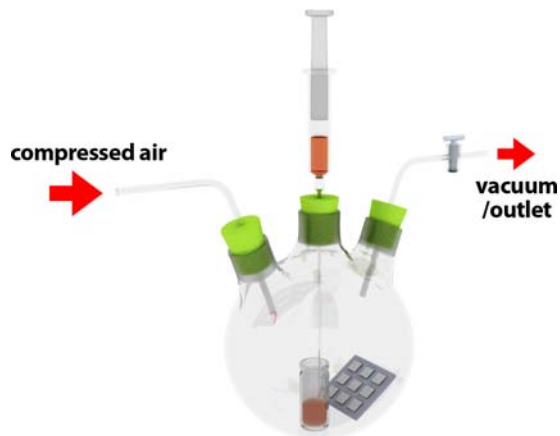


Stringing Up Nanobeads

Andreas Stein, Fan Li

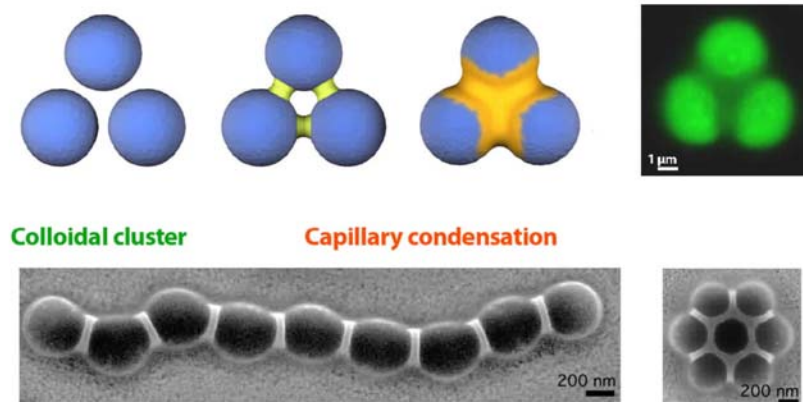
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- Novel approach to connect colloids into conjugated clusters and chains of various geometries
 - ◆ Capillary condensation
 - ◆ Provides connections and stabilizes clusters
 - ◆ Imparts clusters with specific directional interactions
 - ◆ New tool toward mimicking molecular assembly at the colloidal scale



- MAJOR OBSERVATIONS

- ◆ Dichloromethylvinylsilane vapor deposited between spin-coated aggregates of polymer spheres
- ◆ Vapor condensed primarily between sphere contacts and reacted to form a thin coating in these regions
- ◆ Process occurred even if spheres were slightly separated from each other



- Publication

- ◆ F. Li, A. Stein, J. Am. Chem. Soc. 2009, 131, 9920