

11.8: Discussion Questions

- Explain how separating the nucleation and growth steps leads to nanoparticles of uniform size.
 - A recent paper by Delia Milliron and coworkers (*Nature*, 2013, 500, 323–326, doi:10.1038/nature12398) describes plasmonic indium-tin-oxide (ITO) nanoparticles that can control the infrared transparency of windows. Explain how the plasmon resonance wavelength of the nanoparticles can be tuned by electrochemical doping, and how the invention could save some of the energy used to heat and cool buildings.
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