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Role of Chemistry in Nanoscience and Nanotechnology

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Chemistry is dealing with atoms and molecules; therefore it seems to be the paradigm of the vision of nanotechnology with smallest dimensions ranging from a few nanometres to less than 100 nanometres to build up new structures atom by atom. Chemistry has contributed to the invention and development of materials whose properties depend on nano scale structure which are historically been associated with colloids, micelles, polymer molecules, phase-separated regions in block copolymers, and similar structures. Nanoscience is beginning to produce new methods of characterizing the structures of the phase separated regions (which are often of nanometer dimensions), and thus provide ways of engineering these regions.