Synthesis and Characterization of Hyperbranched Poly(amidoamine)s

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Hyperbranched polymers have received considerable attention because of their unique properties and three-dimensional shape compared to the linear analogues. Poly(amidoamine)s (PAMAMs) which possess functional nitrogen and amide groups can serve as high capacity nanoscale containers for metal ions such as Cu(II), Ni(II) and so on. In this presentation, hyperbranched poly(amidoamine)s(HPAMAMs) with functional nitrogen and amide groups were prepared from acrylamide and amine monomers. Detailed synthesis and characterization of the polymers and their absorption behaviors of metal ions will be presented.