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A facile FeBr_3 based photoATRP for surface modification of mesoporous silica nanoparticles for controlled delivery cisplatin

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Graphical abstract



Multifunctional mesoporous silica nanoparticles based polymer composites was prepared through the FeBr_3 based photoATRP and utilized for controlled drug delivery of cisplatin

Highlights

- Surface modification of mesoporous silica nanoparticles through photoATRP
- MSNs-NH₂-poly(MPC-co-IA) composites show well water dispersity and high drug loading capability
- MSNs-NH₂-poly(MPC-co-IA) composites can be used for controlled drug delivery
- The FeBr_3 based photoATRP is a novel and effective method for surface modification of MSNs

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