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Title: Next-generation superparamagnetic iron oxide nanoparticles for cancer theranostics

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Highlights:

- Multifunctional SPIO nanoparticles hold great potential for cancer theranostics
- Polymer-coated SPIO nanoparticles are promising for developing smart and activatable probes
- Translational research of functionalized SPIO nanoparticles for clinical practice is challenging

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