Special Issue

Magnetic Nanoparticles for Biomedicine

Message from the Guest Editor

Magnetic nanomaterials are extremely versatile and can be used in multiple applications. However, there are many challenges for nanoparticle systems in biomedicine—both regulatory and related to the complex bodily fluids that make it difficult to control nanomaterials for biomedical applications. This issue specificially adresses these challenges: How can one control magnetic nanoparticles through external fields? How can we control the interface of nanomaterials and their aggregation within complex fluids? The manipulation and control of magnetic nanoparticles and nanomaterials by external fields and environments is the focus of this Special Issue. This can be medical in vivo or in vitro studies of drug delivery agents based on magnetic delivery or hyperthermia and contrast agent applications for magnetic resonance imaging. Other magnetic separation processes and magnetic nanorobot applications are welcome as well.

Guest Editor

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