

Special Issue

Metal Nanoplateforms as Controlled Release and Targeted Drug Carriers and Hyperthermia Agents

Message from the Guest Editor

Cancer is one of the leading causes of death globally. Unfortunately, conventional treatment methods such as bulk chemotherapy and radiation therapy are associated with toxic side effects for patients. Therefore, increasing the therapeutic efficacy of anticancer agents, while decreasing their toxicity, has become an important research area. The two approaches used include the controlled release drug delivery and targeted drug delivery. A recently developed paradigm involves employing hyperthermia/heat delivery to shrink tumors. This is especially relevant as an adjuvant therapy for killing residual cancer cells to prevent tumor recurrence following tumor resection surgery or chemotherapy. In this context, metal nanoparticles have been synthesized and/or modified with various functional groups to allow their use as (a) nanocarriers for controlled release and targeted drug delivery or (b) thermoseeds for hyperthermia. This Special Issue aims to highlight current research on the development and in vitro/in vivo evaluation of metal nanocarriers for controlled drug release, targeted drug delivery, and/or hyperthermia delivery for cancer therapy.

Guest Editor

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