

Special Issue

Metal Nanoparticles for Controlled Release of Drugs and Bioactive Compounds

Message from the Guest Editors

Metal nanoparticles are central to nanomedicine, offering tunable size/shape, high surface area, biomolecule functionalization, and plasmonic properties that enable controlled biodistribution, release, and theragnostics. Green synthesis broadens access, while techniques like SERS enable real-time monitoring of release. This Special Issue aims to consolidate mechanistic knowledge linking nanoparticle properties to drug loading, release kinetics, and biological fate, in response to the rapid expansion of this field.

Topics include:

Synthesis and physico-chemical characterization
Quantitative release kinetics and modelling
In vitro simulation of physiological environments
Advanced analytical approaches
Correlation of design with biodistribution, safety, and PK/PD in preclinical models
Delivery of conventional drugs, natural extracts, biomolecules, gene delivery
Surface engineering and targeting strategies that modulate release

We invite articles and reviews with quantitative release data, validated kinetics, mechanistic insights, or novel analytical tools—emphasis on: clear nanoparticle–release linkages, proper controls and reproducible methods, translational considerations.

Guest Editors

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

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