

Special Issue

Ultrasound-Aided Drug Delivery

Message from the Guest Editor

Ultrasound has become an attractive means of drug delivery although sub-millimeter level spatial selectivity from ultrasound is not as ideal as cell level selectivity in smart drug delivery. An intriguing aspect of ultrasound-aided drug delivery is that a single predominant mechanism, a cavitation, appears to explain permeability changes from the cell membrane level (sonoporation) to organ level. Various cavitation seeds have been tried to induce cavitation in a more controllable manner while also providing enhanced stability and target selectivity. Additionally, a wide range of applications have been tried, from brain disease to skin disorders. Although individual target of ultrasound-aided drug delivery presents completely different constraints to still overcome, this method could provide a valuable means in medicine. This Special Issue invites manuscripts on subjects relating to various aspects of ultrasound-aided drug delivery, including new findings in mechanism, preclinical/clinical application works and breakthroughs in cavitation seeds.

Guest Editor

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