Special Issue

Advanced Nanosystems for Ophthalmic Administration

Message from the Guest Editor

Ophthalmic therapies have recently been improved by the introduction of novel drug delivery approaches using implants or devices, advanced biomaterials, nanomedicines, stimuli-responsive systems, cell therapy, etc. These technologies are applied for the treatment of several anterior/posterior-segment diseases such as dry eye, allergy, inflammations, infections, glaucoma, cataract and retinal disorders (age-related macular degeneration, diabetic retinopathy, and others). Most of the inserts/implants are invasively applied and require surgical procedures, and advanced drug delivery systems (DDSs) based on nanotechnologies appear to provide more effective non-invasive therapies even though they require increasing efforts to obtain high clinical impacts. The employment of in vitro models to estimate the ocular drug release residence time and clearance plays an important role in this research progress. This Special Issue of *Nanomaterials* will survey the challenges and the current state-of-the-art in the use of nanomaterials to create advanced DDSs for the treatment of ocular diseases.

Guest Editor

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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