



Immunosensor for Virus Detection

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Deadline for manuscript submissions:

closed (31 December 2021)

Message from the Guest Editors

Rapid and accurate diagnosis of viruses is crucial to prevent and control the spread of pathogenic viruses. Conventional methods such as real-time polymerase chain reaction, enzyme-linked immunosorbent assay, and Western blots suffer limitations that require time-consuming processing and trained technical operators and expensive equipment. Immunosensors are affinity-based biosensing devices that can overcome previously mentioned barriers and rapidly detect viruses due to their high specificity and label-free detection.

Therefore, this Special Issue seeks to showcase research papers and review articles focusing on immunosensors for virus detection, which includes but is not limited to:

- Development of novel immunosensor designs for virus detection;
- Development of point-of-care viral sensors that provide miniaturization, high sensitivity, cost-effectiveness, and portability;
- Integration in other bionanoparticles, including but not limited to extracellular vesicles, lipoproteins, ferritin, magnetite, and virus-like particle detection;
- Development of novel viral enrichment methods to improve sensitivity of typical analytical techniques.





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