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## Advanced Graphene-Based Nanocomposite for Biosensing Application

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### Message from the Guest Editors

The unique physical, chemical and electrical properties—including the high specific surface area, high carrier mobility, high electrical conductivity, flexibility, and optical transparency—of graphene and its related derivatives make them ideal for biosensing applications. They can be easily functionalized and combined with various types of different nanoparticles, quantum dots, (bio)polymers and biomolecules, to form a diverse range of graphene-based nanocomposites. The fabricated graphene-based nanocomposites can be used as a compatible platform for the immobilization of biomolecules, such as enzymes, antibodies, DNA, RNA and aptamers to create highly sensitive and selective biosensors for the detection of a wide range of biomolecules. They can be also used as non-enzymatic electrode materials for the detection of clinically important biomolecules and biomarkers.

This Special Issue aims to highlight the unique research and development efforts, identifying different graphene-based nanocomposite platforms that have been developed for biosensing applications. Research papers, short communications and reviews are all welcome.



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# Special Issue



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## Message from the Editor-in-Chief

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