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Advances in Two-Dimensional Materials for Electrochemical Biosensors

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Message from the Guest Editors

Two-dimensional (2D) materials have attracted much attention in the past decade. They offer a high specific surface area as well as electronic structure and properties that differ from their bulk counterparts due to the low dimensionality. Graphene is the best-known and moststudied 2D material, but metal oxides and hydroxides (including clavs), transition metal carbides and nitrides (MXenes), dichalcogenides, boron nitrides (BN), carbon nitrides, monoelemental Xenes (including phosphorene and bismuthene), and other materials that are one or several atoms thick are receiving increasing attention. The specific chemical, physical, and optical properties of 2D materials can influence the performance of bio/sensing, improve drug delivery and photo/thermal therapy and affect their toxicity. Two-dimensional materials have been used in numerous applications and in different fields of research such as biomedicine, biosensing, and chemical sensing as well as energy storage and generation, electronics, etc.









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Message from the Editor-in-Chief

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