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## Pd-Based Nanoalloys for Electrochemical Reactions

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### Message from the Guest Editor

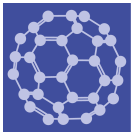
Pd-based nanomaterials have the potential to provide superior and cost-effective solutions to meet the requirements of present and evolving electrochemical applications. There have been some reports about decreasing the loading amount of Pd in the catalysts with enhanced performance by alloying Pd with transition metals and other elements. The main important factors that influence the catalytic activity of these bimetallic and trimetallic nanoalloys are the electronic and geometric effect and a combination of other effects, including defects, a synergistic effect, change of d-band center of palladium, and surface strain. The fields of direct alcohol fuel cells, electrochemical oxidation of formic acid, electrochemical reduction of oxygen and hydrogen peroxide offer key application opportunities for novel Pd-based nanoalloys developed by new synthesis techniques and presenting unique properties. This Special Issue will attempt to cover the most recent advances in Pd-based nanoalloys, concerning, not only the synthesis and characterization, but especially reports of their activity, functionality, durability and low-cost for electrochemical applications

Guest Editor



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# Special Issue



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## Message from the Editor-in-Chief

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