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Bimetallic PdM (M = Fe, Ag, Au) alloy nanoparticles assembled on reduced graphene oxide as catalysts for direct borohydride fuel cells

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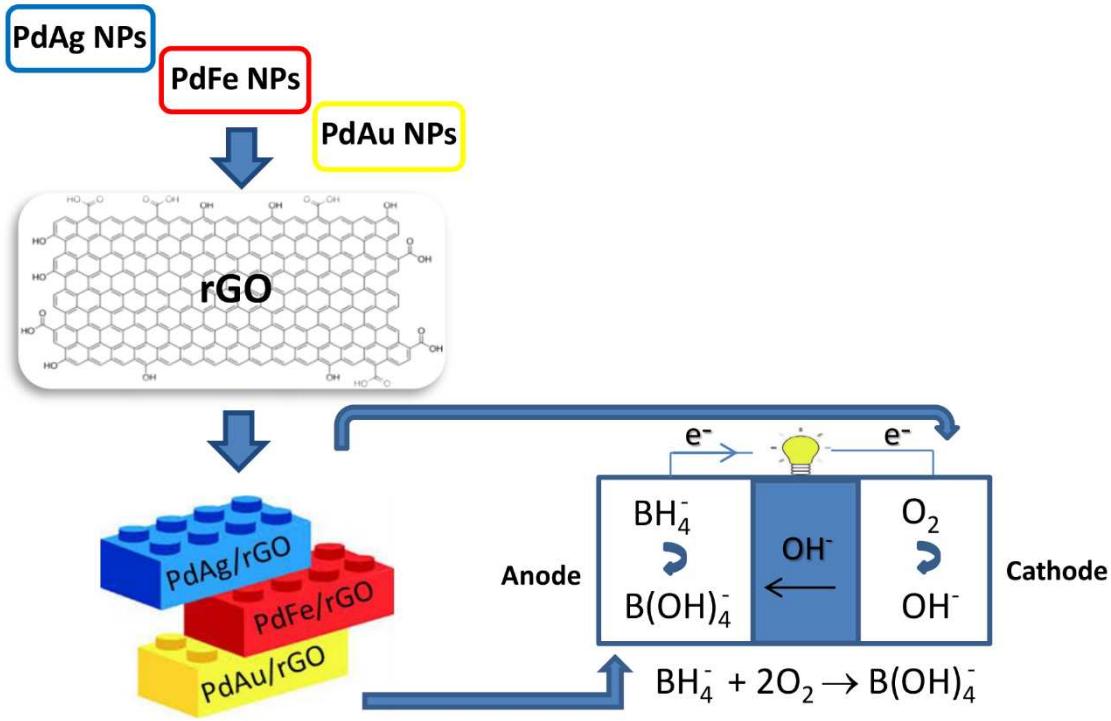
Graphical Abstract



Bimetallic palladium alloy nanoparticles anchored on reduced graphene oxide support, PdFe/rGO, PdAg/rGO and PdAu/rGO, are tested for both cathode and anode reactions of the direct borohydride fuel cell. PdAu/rGO reveals high activity and the highest number of exchanged electrons for both ORR and BOR.