

MS14-1-10 Electrochemical Oxygen Reduction Reaction Using Carbon nanotubes-graphene-manganese salen composite material

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Abstract

Carbon nanotubes (CNT) and graphene oxide (GO) are good catalytic material due to their high-surface area, easy functionalization, more conductivity and stability [1-3]. These materials have wide range of applications in the field of various sectors [1-2]. In this work, a composite material of CNT and GO has been prepared with manganese salen (CNT/GO/Mn(salen)). The composite material CNTs/GO/Mn(salen) has been used for electrochemical oxygen reduction reaction (ORR). It is suggesting that CNTs/GO/Mn(salen) could be a promising material for ORR electrocatalyst in fuel cells, metal-air-battery, chlor-alkali-electrolyzers and etc. It may be useful for the fuel work.

References

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