

The non -enzymatic glucose sensor composed of Co_3O_4 nanoflower / 3D graphene oxide hydrogel composites

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The well -controlled Co_3O_4 nanoflower (NF) / 3D networked graphene oxide hydrogels (GOH) was fabricated by one -step hydrothermal method. The morphology of Co_3O_4 NFs was changed from needle -shaped structure to wall -shaped structure when the growth time was changed. SEM and XRD results confirmed the formation of Co_3O_4 NF and 3D GOH. At the optimized growth condition, Co_3O_4 NF / 3D networked GOH composites exhibited excellent glucose sensing ability due to its well -developed 3D structures and high electrical conductivity.