


Applications Of Nanomaterials In Sensors And Diagnostics

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Summary : Free applications of nanomaterials in sensors and diagnostics pdf download - recent progress in the synthesis of nanomaterials and our fundamental understanding of their properties has led to significant advances in nanomaterial-based gas chemical and biological sensors leading experts around the world highlight the latest findings on a wide range of nanomaterials including nanoparticles quantum dots carbon nanotubes molecularly imprinted nanostructures or plastibodies nanometals dna-based structures smart nanomaterials nanoprobe magnetic nanomaterials organic molecules like phthalocyanines and porphyrins and the most amazing novel nanomaterial called graphene various sensing techniques such as nanoscaled electrochemical detection functional nanomaterial-amplified optical assays colorimetry fluorescence and electrochemiluminescence as well as biomedical diagnosis applications e g for cancer and bone disease are thoroughly reviewed and explained in detail this volume will provide an invaluable source of information for scientists working in the field of nanomaterial-based technology as well as for advanced students in analytical chemistry biochemistry electrochemistry material science micro- and nanotechnology

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