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Biocompatible Graphene for Bioanalytical Applications

 Springer

Biocompatible Graphene For Bioanalytical Applications Springerbriefs In Molecular Science

Barbara Palys



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Biocompatible Graphene for Bioanalytical Applications Yuwei Hu, Fenghua Li, Dongxue Han, Li Niu, 2014-12-04 This book highlights the latest advances in the use of graphene and bio compatible material decorated graphene to detect various targets e g DNA RNA amino acids peptides proteins enzymes antigens glucose DA AA UA ATP NADH gas ions etc It focuses on the specific interaction of these substances with graphene or modified graphene and the efficient transduction of the target recognition event into detectable signals via various techniques Particular emphasis is given to well designed strategies for constructing graphene based platforms and target determination It also covers other bio analytical applications including cellular imaging drug delivery and bacteria inhibition before turning to a discussion of future challenges and prospects of graphene in bio analytical applications This book is intended for researchers working in the fields of analytical chemistry nanomaterials and biomedical engineering Li Niu is a Professor at the State Key Laboratory of Electroanalytical Chemistry Changchun Institute of Applied Chemistry Chinese Academy of Sciences [Handbook of Graphene, Volume 6](#) Barbara Palys, 2019-06-12 The sixth volume in a series of handbooks on graphene research and applications The Handbook of Graphene Volume 6 Biosensors and Advanced Sensors discusses the unique benefits that the discovery of graphene has brought to the sensing and biosensing sectors It examines graphene s use in leading edge technology applications and the development of a variety of graphene based sensors The handbook looks at how graphene can be used as an electrode substrate or transducer in sensor design Graphene based sensor detection has achieved up to femto levels with performances delivering the advantages of greater selectivity sensitivity and stability *Graphene-Based Nanomaterials* Yugal Kishore Mohanta, Kunal Biswas, Saurov Mahanta, Saravanan Muthupandian, 2024-02-08 The book presents a comprehensive overview of the historical current and prospective application realms of nanobiotechnological research pertaining to graphene a carbon based nanomaterial and its diverse forms in the fields of food and agriculture as well as health sciences and technology Young nanotechnologists and businesses will have access to nanobioanalytical methods Given the present circumstances it is crucial to underscore the potential ramifications that diverse forms of graphene nanomaterials could have on the food sector agricultural methodologies and healthcare This book presents an analysis of the potential advantages of graphene based nanomaterials over traditional materials in the food agriculture and health care sectors This book employs case studies academic and theoretical literature technology transfer innovation economics and policy management to underscore the intricate issues associated with graphene nanomaterials The pioneering text *Graphene Based Nanomaterials Application in Food Agriculture and Healthcare* has the potential to serve as a valuable resource for interdisciplinary researchers academics practitioners policymakers and professionals operating within the fields of science technology engineering innovation management and economics Features Discusses the different aspects of graphene as a two dimensional material and its underlying unique physicochemical properties synthesis methods and protocols Considers the

implications of graphene in the food sciences and its different spoilage detection mechanisms have been encompassed in the book Explores graphene nanomaterials medical and biomedical uses With examples the unique and tailor made material s uses and prospects in health sciences pharmaceuticals and biomedical research are highlighted Elaborates on graphene s applications in agriculture and briefs the potential of biocompatible planar conductive nanoscale materials to boost agri product production crop development and crop infection surveillance

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