Record Nr. UNINA9910830271103321 Biomedical applications and toxicology of carbon nanomaterials // **Titolo** edited by Chunying Chen and Haifang Wang Pubbl/distr/stampa Weinheim, Germany: .: Wiley-VCH Verlag GmbH & Company KGaA. . [2016] ©2016 **ISBN** 3-527-69287-8 3-527-69285-1 Descrizione fisica 1 online resource (671 p.) Nanostructured materials Soggetti Biomedical materials Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record Note generali Nota di bibliografia Includes bibliographical references and index Nota di contenuto Related Titles; Title Page; Copyright; Table of Contents; List of Contributors: Preface: Chapter 1: Synthesis, Functionalization, and Characterization; 1.1 Introduction; 1.2 Fullerenes and Metallofullerenes; 1.3 Carbon Nanotubes; 1.4 Graphene; 1.5 Summary and Outlook; References; Chapter 2: Identification and Detection of Carbon Nanomaterials in Biological Systems; 2.1 Introduction; 2.2 Available Techniques for Qualitative and Quantitative Determination; 2.3 Summary and Outlook; Acknowledgments; References; Chapter 3: Biodistribution and Pharmacokinetics of Carbon Nanomaterials In Vivo 3.1 Introduction3.2 Amorphous Carbon Nanoparticles; 3.3 sp2 Carbon Nanomaterials: 3.4 Nanodiamonds: 3.5 Summary and Outlook: Acknowledgments; References; Chapter 4: Interaction of Carbon Nanomaterials and Components in Biological Systems; 4.1 Introduction; 4.2 Factors Affecting Interaction: 4.3 Interaction of Carbon Nanomaterials with Various Components in Biological Systems; 4.4 Conclusion and Perspectives; References; Chapter 5: Biomedical Applications of Carbon Nanomaterials; 5.1 Introduction; 5.2 Biomedical Applications of Fullerenes; 5.3 Biomedical Applications of Carbon **Nanotubes**

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