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Aryl Diazonium Salts: New Coupling Agents in Polymer and Surface Science (Hardback)

By -

Wiley-VCH Verlag GmbH, Germany, 2012. Hardback. Book Condition: New. 1. Auflage. 246 x 176 mm. Language: English . Brand New Book. Diazonium compounds are employed as a new class of coupling agents to link polymers, biomacromolecules, and other species (e. g. metallic nanoparticles) to the surface of materials. The resulting high performance materials show improved chemical and physical properties and find widespread applications. The advantage of aryl diazonium salts compared to other surface modifiers lies in their ease of preparation, rapid (electro)reduction, large choice of reactive functional groups, and strong aryl-surface covalent bonding. This unique book summarizes the current knowledge of the surface and interface chemistry of aryl diazonium salts. It covers fundamental aspects of diazonium chemistry together with theoretical calculations of surface-molecule bonding, analytical methods used for the characterization of aryl layers, as well as important applications in the field of electrochemistry, nanotechnology, biosensors, polymer coatings and materials science. Furthermore, information on other surface modifiers (amines, silanes, hydrazines, iodonium salts) is included. This collection of 14 self-contained chapters constitutes a valuable book for PhD students, academics and industrial researchers working on this hot topic.



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