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Autore	Kumar Vijay
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-- Green carbon quantum dots for efficient sensing of heavy metal ions -- Sensing activity of green synthesized carbon quantum dots for detecting heavy metal ions -- Carbon Quantum Dots for Smart Electronic Devices.

Sommario/riassunto

This book highlights the environmental applications of plant-mediated carbon quantum dots, i.e., detection of heavy metals, sensing of toxic organic compounds, degradation of dyes and other toxic compounds, antioxidant activity, antimicrobial activity, detection of drugs, etc. This book presents the chemistry and mechanism behind the synthesis and various environmental applications of QDs. This book is beneficial for researchers, professionals and students working in the fields of environmental sciences, material engineering, electronics, chemical engineering, biochemical and biomedical engineering, etc. It will be also useful in specialized courses in nanotechnology, green synthesis, Environmental Science & Engineering.