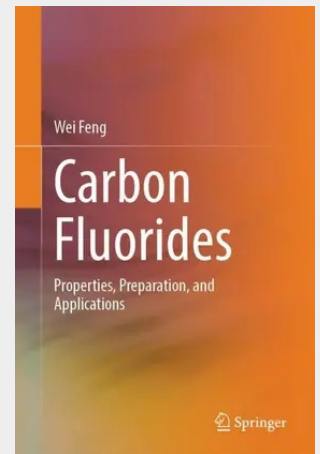


Carbon Fluorides

Properties, Preparation, and Applications

This book offers a comprehensive perspective on carbon fluorides, covering detailed descriptions of the structure, properties, preparation, and applications of carbon fluorides, from basic knowledge to the latest research developments. It provides readers with a clear and in-depth analysis of carbon fluorides. This book first describes the structural properties of carbon fluorides, such as the formation of different types of C-F bonds, F/C ratio, and the impact of F atom distribution on material properties. The introduction of F atoms results in unique properties of carbon fluorides in terms of optics, electronics, thermal properties, and mechanical strength, distinguishing them from carbon materials. This book also introduces various carbon fluoride materials prepared from various carbon material precursors currently under research, such as fluorinated graphene, fluorinated carbon nanotubes, fluorinated graphite, and fluorinated fullerenes. The detailed description of the research and applications of carbon fluorides in batteries and other areas is provided. This book is suitable for professionals and academic researchers and also serves as a self-study reference for beginners interested in this field. The author of this book has over a decade of experience and expertise in carbon fluorides research, providing readers with a rich and comprehensive book in this field.

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