



Long Afterglow Phosphorescent Materials

By Suli Wu

Springer-Verlag GmbH Sep 2017, 2017. Taschenbuch. Condition: Neu. Neuware - This book presents the fundamental scientific principles of long afterglow phosphorescent materials and a comprehensive review of both commercialized afterglow materials and the latest advances in the development of novel long afterglow materials. It is designed to supply much needed information about inorganic and organic afterglow materials, including detailed treatment of structure, classification, preparation techniques, characterization, surface modification chemistry, and optical measurements. Special attention is given to technological applications such as photovoltaics, photocatalytic reactions, and lighting and molecular sensing. Although traditional long afterglow phosphors have been widely investigated and used in industry, and significant efforts have recently been made toward the use of these materials for bioimaging, there is to date no scientific monograph dedicated to afterglow materials. This book not only provides a beginners' guide to the fundamentals of afterglow luminescence and materials, but also gives skilled researchers essential updates on emerging trends and efforts. The work provides a special focus on organic afterglow materials, which offer several advantages such as light-weight, flexible, and wide varieties; mild preparation conditions; and good processability. This book is aimed at postgraduate students, researchers, and technologists who are engaged in the synthesis, development,...

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