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BODIPY Dyes

Progress in the Science of Functional Dyes

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BODIPY Dyes Springer Nature

Nowadays, dye chemistry is a booming area of research. In particular, BODIPY fluorophore dyes are in the spotlight since their chromophore allows the design of tailor-made molecules for specific (bio)technological purposes. *BODIPY Dyes: A Privilege Molecular Scaffold with Tunable Properties* aims to highlight such chemical versatility and modifiable photophysical and

electrochemical properties. The second and the third chapter deal with BODIPYs in chemosensing and as labels for bioimaging. The fourth chapter focuses on their electroluminescence and redox properties, and their role in photocatalysis. The fifth chapter provides deeper insight into the degradation mechanisms in acid and basic media. The book aims to overview the state of the art of BODIPYs and inspire readers involved in dye chemistry. *Progress in the Science of Functional Dyes* BoD - Books on Demand

This book covers a wide range of topics related to functional dyes, from synthesis and functionality to application. Making a survey of recent progress in functional dye chemistry, it provides an

opportunity not only to understand the structure-property relationships of a variety of functional dyes but also to know how they are applied in practical use, from electronic devices to biochemical analyses. From classic dyes such as cyanines, squaraines, porphyrins, phthalocyanines, and others to the newest functional π -conjugation systems, various types of functional dyes are dealt with extensively in the book, focusing especially on the state of the art and the future. Readers will benefit greatly from the scientific context in which organic dyes and pigments are comprehensively explained on the basis of chemistry.

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