This book reviews the cutting-edge significant research in the field of smart light-responsive materials based on azobenzene polymers and liquid crystals. Emphasis is placed on the discovery of new phenomena from the past 5 years, their underlying mechanisms, new functionalities, and properties achieved through rational design. Edited by leading authorities in the field, Zhao and Ikeda, the chapters are authored by an internationally-recognized team of experts from North America, Europe, and Asia. Smart Light-Responsive Materials will serve to catalyze new research that will lead this field over the next 5-10 years.

Yue Zhao, PhD, is Professor of Chemistry at the University of Sherbrooke. With more than 100 publications to his credit, Dr. Zhao's research interests center on the design, synthesis, and applications of new polymer and liquid-crystalline materials. He has worked on specific applications of light-responsive materials, self-assembled materials, and nanostructured materials for liquid crystal displays, controlled drug delivery, and tunable optical devices.

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