Photochromic Materials. Preparation, Properties and Applications

Description:
Summarizing all the latest trends and recent topics in one handy volume, this book covers everything needed for a solid understanding of photochromic materials.

Following a general introduction to organic photochromic materials, the authors move on to discuss not only the underlying theory but also the properties of such materials. After a selection of applications, they look at the latest achievements in traditional solution–phase applications, including photochromic–based molecular logic operations and memory, optically modulated supramolecular system and sensors, as well as light–tunable chemical reactions. The book then describes the hot–spot areas of photo–switchable surfaces and nanomaterials, photochromic–based luminescence/electronic devices and bulk materials together with light–regulated biological and bio–chemical systems. The authors conclude with a focus on current industrial applications and the future outlook for these materials.

Written with both senior researchers and entrants to the field in mind.

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