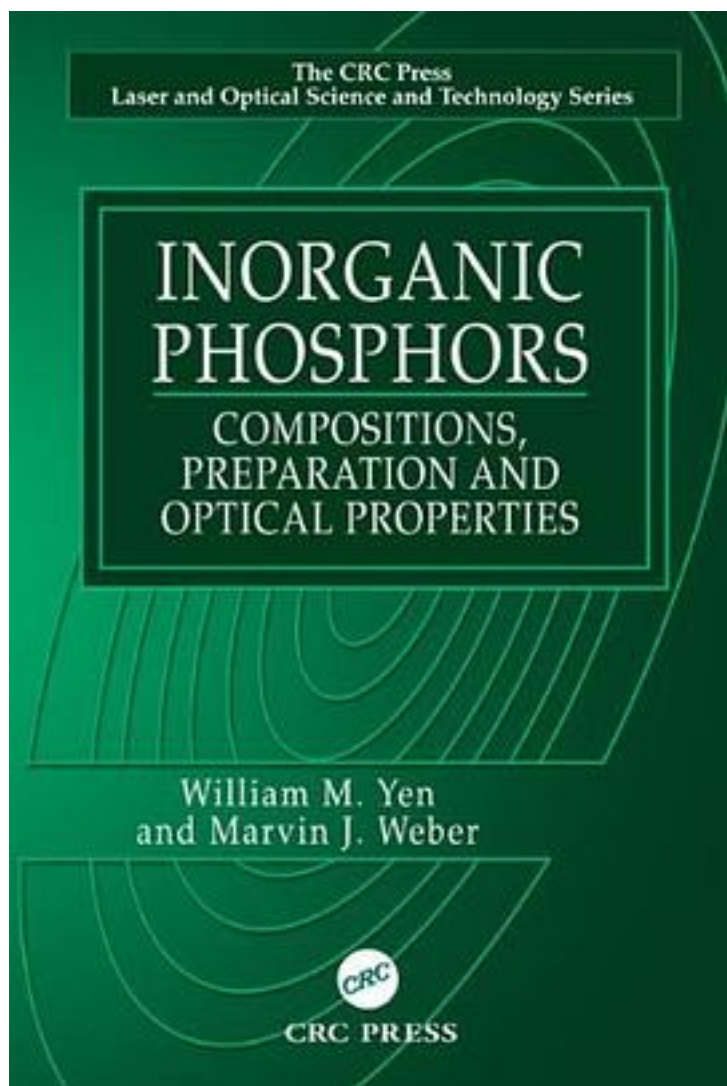


# Phosphors



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Lighting, display and opto-electronics industries face the challenge of using more durable, energy-efficient, cost-effective and environmentally safe phosphors to meet their increasingly creative applications in everyday devices, such as TV screens, electronic billboards, computer monitors and portable electronics. "Inorganic Phosphors: Compositions, Preparation, and Optical Properties" addresses practical and theoretical aspects of inorganic phosphors. Authors Yen and Weber expand on the core research of Willi Lehmann and present the synthesis of phosphors in a 'cookbook' style featuring nearly 300 'recipes' using the most up-to-date guidelines and methods to yield optimum light output, such as sol-gel and combustion syntheses. In addition, they contribute their expertise in spectroscopy and luminescence to categorize nearly 500 inorganic phosphors in terms of chemical composition and luminescence output wavelengths, summarizing their physical and emissive optical properties as well. With ordinary laboratory skills and equipment, usable batches of phosphors can be synthesized for further research. An excellent sequel to the "Phosphor Handbook", this book is the first of its kind to provide a combined practical and technical foundation that can be used in commercial and academic research and development of new phosphors and phosphor applications.

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