



Ceramics

an Open Access Journal by MDPI

CiteScore: 3.7

Impact Factor: 2.0

Special Issue Reprint

Advanced Glasses and Glass-Ceramics

Edited by: Georgiy Shakhgildyan and Michael I. Ojovan

This reprint, a comprehensive compilation from the Special Issue "Advanced Glasses and Glass-Ceramics", edited by Dr. Georgiy Shakhgildyan and Prof. Dr. Michael I. Ojovan, illuminates the latest advancements in glass science and technology. With contributions spanning materials science, chemistry, and physics, it showcases the unparalleled versatility and critical role of glass in cutting-edge applications. This volume brings together pioneering research on the structure, properties, and innovative uses of glass and glass-based materials in areas crucial for sustainable development, including energy, photonics, and microelectronics. Highlighting significant strides in understanding glass materials and their applications, the collection underlines the importance of interdisciplinary research in addressing challenges like nuclear waste management and development of new light emitting media. It reflects the collaborative spirit of the international glass community, offering insights into novel glass compositions, processing techniques, and the synthesis methods driving the field forward. This reprint is an essential resource for researchers, professionals, and academics seeking to deepen their knowledge of glass science, its current achievements, and future directions.

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