



Multiple Applications for Ceramic Materials

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Message from the Guest Editor

Dear Colleagues,

In the last decade, many efforts have been focused on the fabrication and development of transparent polycrystalline ceramics because they can be used as host materials for solid-state lasers (SSL). Ceramics doped with rare-earth elements (RE) has been considered a promising and attractive way to build up efficient and high-power diode-pumped SSL with short duration pulses.

If compared with single crystals, ceramic fabrication processes make it possible to obtain samples with a more uniform dopant distribution, high levels of doping, excellent thermo-mechanical and optical properties. Moreover, they are more economically advantageous than crystals due to lower processing temperatures and shorter processing times.

This Special Issue is aimed to cover the recent research work on fabrication, development e characterization of transparent polycrystalline ceramic materials, so as to provide an insight into the current status and future prospects in this field.

Dr. Angela Pirri
Guest Editor





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Message from the Editor-in-Chief

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