Rare-Earth Doping for Optical Applications

Guest Editors:

Prof. Laetitia Petit
Photonics Laboratory, Tampere University, Tampere FI-33101, Finland
laeticia.petit@tuni.fi

Dr. Dominik Dorosz
Faculty of Materials Science and Ceramics, AGH - University of Science and Technology, Krakow, Poland
dدوروزs@agh.edu.pl

Dr. Wilfried Blanc
Université Côte d’Azur, CNRS UMR 7010, Institut de Physique de Nice, Parc Valrose, 06108 Nice, France
Wilfried.Blanc@unice.fr

Deadline for manuscript submissions: closed (31 August 2018)

Message from the Guest Editors

Dear Colleagues,

Over the past decades, research on the spectroscopic properties of rare-earths has quickly grown in importance, as rare-earth ions play a fundamental role in various optical applications from telecommunication and materials processing to sensing, and from medical diagnosis to energy to cite just a few applications. Intense levels of research have been focused on the development of new materials and designs. Although the number of luminescent materials in different matrices or contained in molecular complexes has increased, there is a constant increase in demand for new rare-earth doped materials to extend their practical applications.

Topics include:

- Advanced luminescence property characterization and related instrument development
- Novel active materials, especially organic materials, crystalline materials, glasses and glass-ceramics
- Novel active devices and emerging applications of rare-earth doped optical materials
- Processing methods of active components in bulk, powder and waveguide forms

Assist. Prof. Dr. Laetitia Petit
Prof. Dr. Dominik Dorosz
Dr. Wilfried Blanc

mdpi.com/si/10304