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Rare-Earth Doping for Optical Applications

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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

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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