

## Special Issue

# Luminescent Nanomaterials for Imaging and Sensing

### Message from the Guest Editor

Traditionally, luminescent materials have mainly been developed for lighting applications, first for (compact) fluorescent lamps and more recently for LED lighting. However, there is a wealth of other current and potential future applications of luminescent compounds, mainly for imaging and sensing applications. For these applications, nanophosphors are most often required, for example, as nanothermometers or biocompatible near-infrared emitters for bio-imaging. Given the possibility to tune emission spectra, luminescent intensities, trap properties and dopant oxidation states as a function of external parameters like temperature, pressure, irradiation or illumination, phosphors are ideally suited for sensing on the nanoscale or for high-resolution imaging. Persistent phosphors that emit visible or near-infrared light can also substantially contribute to sensing, safety applications, and self-powered lighting solutions. We invite submissions for this Special Issue both in the form of fundamental and application-driven original research papers, as well as comprehensive review articles.

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### Guest Editor

Prof. Dr. Dirk Poelman

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### Deadline for manuscript submissions

closed (10 September 2024)



## Materials

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### Message from the Editorial Board

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