



Das Institut für Optische Technologien lädt ein zum Kolloquiumsvortrag

Functional luminescent lanthanide materials

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The Luminescent Lanthanide Lab (L³) at Ghent University designs, synthesizes and investigates the properties of luminescent lanthanide-containing materials for a variety of purposes, ranging from lighting, temperature or analyte sensing to anticounterfeiting.

In the talk, an introduction to lanthanides and their luminescence will be given, followed by a few specific systems that have been studied in the L³ group. Downshifting/upconversion rare-earth tungstate and molybdate materials will be discussed as white-light emitters and sensors for detection of heavy metals; rare-earth functionalized metal-organic frameworks will be shown to have temperature and excitation wavelength dependent emission colors, yielding potential as anti-counterfeit materials; and mixed lanthanide polyoxometalates will be considered as potential cryogenic luminescent thermometers.

Einladender: Prof. Dr. Ulrich Kynast

www.fh-muenster.de/iot

Prof. Dr. Michael Bredol
Prof. Dr. Thomas Jüstel
Prof. Dr. Ulrich Kynast
Prof. Dr. Konrad Mertens
Dr. Stephanie Möller
Prof. Dr. Ulrich Wittrock

Ort:

Raum D 145
(Gebäudeteil D, Parkplatz P3)
Stegerwaldstraße 39
48565 Steinfurt

Datum:

Mittwoch, 22.11.2017

Uhrzeit:

17.00 Uhr c.t.

