



Das Institut für Optische Technologien lädt ein zum Kolloquiumsvortrag

Nanomaterials for optoelectronic applications

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In the last 20 years, semiconducting inorganic nanomaterials e.g. Zn(S, Se) or Cd(S, Se) have been intensively studied as a part of a high-profile class of materials that provide unusual levels of functionality by tuning their size, shape and composition. Due to their unique properties, inorganic nanomaterials have been exploited in the design and fabrication of various optoelectronic devices. Hybrid nanocomposite materials achieved via blending inorganic semiconductor nanocrystals with polymers can be used as active layers of different devices e.g. light emitting diodes or solar cells.

Despite the significant progress in the fabrication and characterization of functional nanomaterials, great challenges still have to be faced, mainly regarding the problems with surface functionalization of nanocrystals, charge transport and control of morphology. This presentation presents some of the recent research advances as well as challenges and future perspectives of inorganic nanomaterials in optoelectronic applications.

Einladender: Prof. Dr. Michael Bredol

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Raum D 145
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Stegerwaldstraße 39
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Datum:

Mittwoch, 06.12.2017

Uhrzeit:

17.00 Uhr c.t.

