

VISITING SCIENTIST LECTURE SERIES

il **Dr. Matteo Mauro**

Institut de Physique et Chimie des Matériaux de Strasbourg (IPCMS), Université de Strasbourg & CNRS,
23, rue du Loess, Strasbourg (France)

Email: mauro@unistra.fr

Photoactive metal complexes: concepts, techniques and applications

The purpose of these lecture series is to share relevant fundamentals of photophysics and photochemistry, followed by concepts and perspectives of coordination compounds and their applications in optoelectronic devices. The Visiting Professor Lecture Series is open for all faculty, PhD students, Master Students, fellows, trainees, and scientific staff of the School of Science of the University of Padova.

Academic schedule

(9h30 – 11h30, aula E and <https://unipd.zoom.us/j/83978446628>):

- **Tuesday, June 15th 2021**

Photochemistry and photophysics: concepts and techniques (Part I)

Basic principles. Factors affecting photophysical performance.

- **Thursday, June 17th 2021**

Photochemistry and photophysics: concepts and techniques (Part II)

Time-resolved techniques. Anisotropy. Instrumental aspects.

- **Tuesday, June 22nd 2021**

Photophysics of metal complexes: from mono- to multi-metallic systems

Selection rules. Environmental effects. Supramolecular systems. Metallophilic interactions.

- **Thursday, June 24th 2021**

Optoelectronic devices: principles and materials

Working principles. Quenching and transport mechanisms. Key examples of phosphorescence OLEDs and TADF OLEDs.

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