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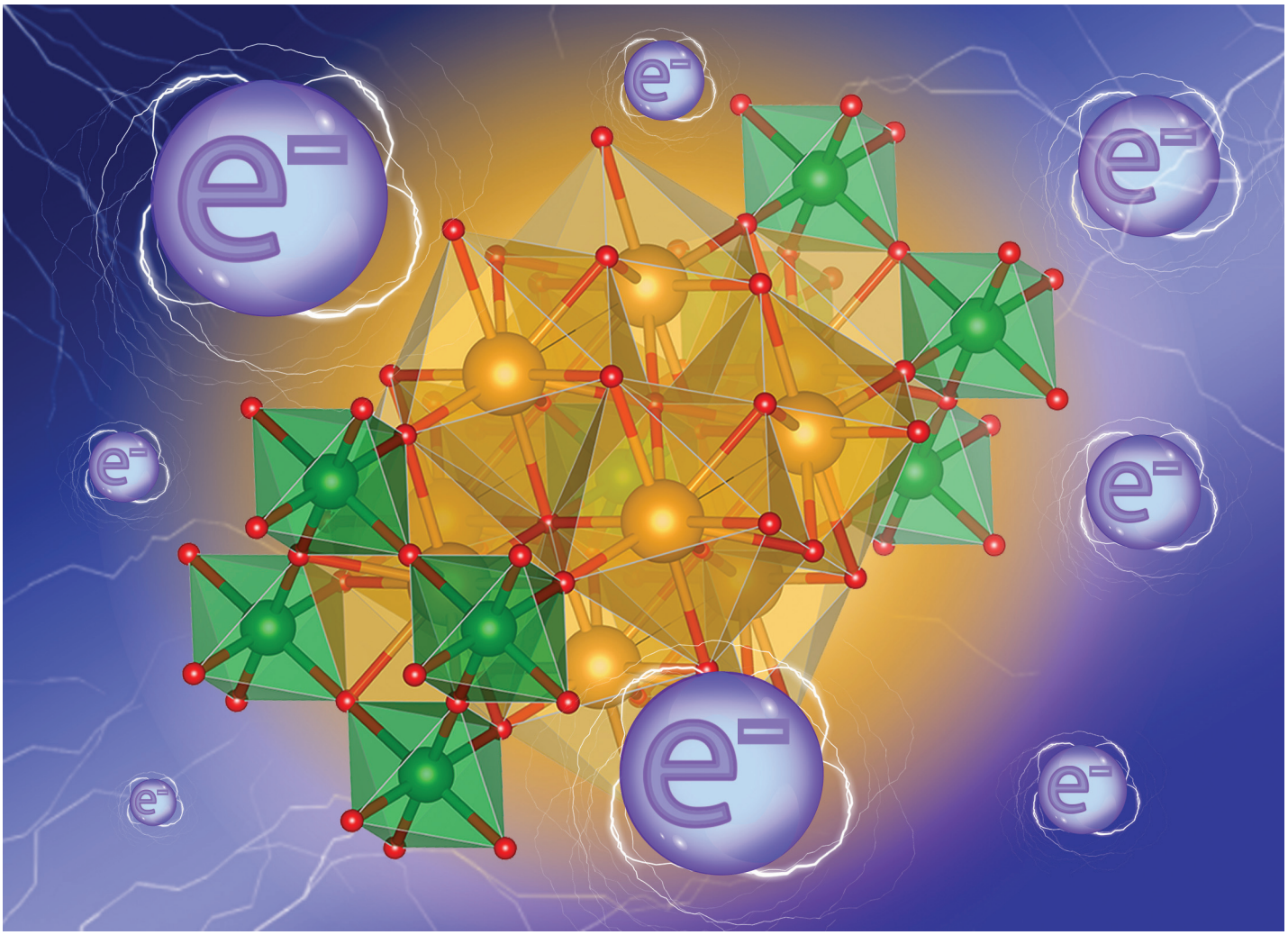

Showcasing research from Dr. Karol Szczodrowski's and Prof. Sebastian Mahlik's laboratory, Institute of Experimental Physics, University of Gdańsk, Gdańsk, Poland.

Lanthanide ions (Eu^{3+}, Er^{3+}, Pr^{3+}) as luminescence and charge carrier centers in Sr_2TiO_4

Materials containing optically active lanthanide ions (Ln) are widely studied for optoelectronic applications. To understand the effects responsible for excitation energy transfer between the host and activators as well as other processes determining optical properties, one should consider the location of Ln states *vs.* conduction and valence band of the host. We propose a new method to determine the position of Ln levels relative to the bands using photoconductivity excitation spectra combined with optical spectroscopy measurements. We believe that this method will be useful for broad class of optical materials.

As featured in:

See K. Szczodrowski *et al.*, *Dalton Trans.*, 2023, **52**, 4329.

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