

Special Issue

Luminous Properties of Organic Semiconductor

Message from the Guest Editor

Organic semiconductors are very useful materials in optoelectronics. In recent years, there has been a significant increase in interest in this group of materials, especially in terms of usability and the possibility of commercialization of the research. An excellent example of the use of organic semiconductors with interesting luminescent properties is organic light-emitting diodes (OLEDs), which are successfully used in displays (smartphones, smartwatches) and lighting panels. An unquestionable advantage of organic materials is the ease of their chemical modification, which allows for the tune the emission colors across the visible spectrum. They also enable the creation of light-emitting devices that have low-energy consumption and potentially low-manufacturing costs. However, the chemistry of such luminescent materials is a relatively young field and there are still many unknowns that require extensive research. This shows how important when designing technologically advanced devices is not only the design itself, but also synthesis, photophysical research, as well as understanding and interpretation of interactions at the molecular and supramolecular levels.

Guest Editor

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