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Sensing Based on Circularly Polarized Luminescence

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Message from the Guest Editors

Currently, certain chiral luminophores and luminescent materials are gaining special attention due to their ability of preferentially emitting right or left circularly polarized light. This phenomenon, circularly polarized luminescence (CPL), is quantitatively measured by the dissymmetry factor, g_{lum}. This parameter is in turn determined by the magnitude of the electric and magnetic dipole transition moments and provides invaluable information on the properties of the excited state of the emitting chiral constructs. Active efforts are in place to enhance the g_{lum} values of emissive materials to create a broad field of new applications in photoelectric devices, oLEDs, or asymmetric photochemistry, among others. Moreover, the multiple layers of information that can be analyzed in CPL open up new ways for sensing technologies, based mainly in the creation or intensification of the signal and in the switching of this emission. CPL sensing is a field yet to be exploited but is showing a great potential for pioneering applications. This Special Issue in *Sensors* will gather and explore these groundbreaking works.

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Message from the Editor-in-Chief

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