Editorial : this newsletter is published by the Circulight consortium on a biannual basis to inform you of the project's original scientific results and to popularize the underlying developed technology.

CIRCULATING LIGHT ON ANY PHOTONIC PLATFORM

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What will we do ?

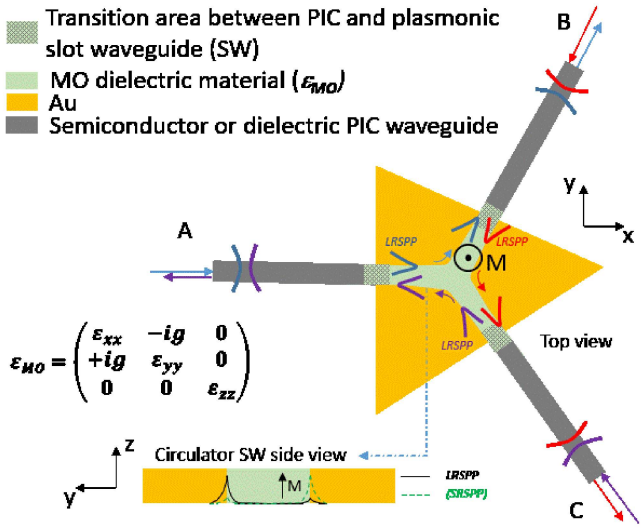
Our mission is to develop an *integrated optical circulator*, an essential component for the protection, distribution and integration of optical functions in various photonic circuits architectures.

How will we do it ?

The key will be an approach based on magneto-optical nanoparticle-composite sol-gel material and on the *magneto-biplasmonic effect*, enabling the optical circulator to be integrated monolithically into any photonic platform.

How does it work ?

changes light polarization when exposed to a magnetic field. This is combined with the magneto-biplasmonic effect, where metallic nanoparticles enhance light control through magnetic interactions. Together, these innovations allow our circulator to precisely manage light flow, ensuring efficient and effective integration into any photonic platform.



Who are we ?

Our consortium is composed of 9 partners from France, Netherlands, UK, Czechia, Italy, and Germany, including 7 research institutions and 2 industrial partners. Our expertise spans materials science, optics, and nanotechnology, enabling us to develop solutions for integrated photonic circuits.

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