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【1】 Frontiers in Nanophotonics: Enabling Technology for Optical Biosensing and Bioimaging

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Nanophotonics, which excels at controlling light in sub-wavelength volumes and providing enhanced light-matter interactions, is opening up unprecedented opportunities in many fields including biology. Our laboratory has world-leading expertise in experimental nanophotonics and its application to biosensing, spectroscopy and bioimaging by combining novelties of nano-scale optics with microfluidics, nanofabrication, biochemistry and data science. We introduce powerful bioanalytical technologies enabling label-free, real-time, and high-throughput analysis of biomolecules, pathogens and living cells for life science research, disease diagnostics and point-of-care testing. In this talk, I will present some of our recent work and provide their prospects in biomedical and clinical applications.

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