Nonlinear optical devices using thin film lithium niobate

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The thin film lithium niobate is known for its low optical loss and strong electro-optical, acousto-optical, and nonlinear optical coupling. In the area of nonlinear optics, these unique features lead to breakthroughs for the nonlinear optical integration, for both classical and quantum applications. This talk is going to present the recent progresses in the efficient nonlinear optical frequency conversion, frequency comb generation, bright photon sources, and outlook the furfure application of the nonlinear optical devices using thin film lithium niobate.

Short Bio:

Zhenda Xie received his PhD degree in Physics from Nanjing University, China. He is a professor in School of Electronic Science & Engineering in Nanjing University. His team focuses on the photonic integration for nonlinear optics and quantum optics applications. He has published over 80 journal papers, including Light: Science & applications, National Science Review, Nature Photonics, Physical Review Letters.