

TRR Guest Scientist Lecture / Seminar

Date/Time: 24.06.2021 / 15:00 o'clock

Location: Online - Zoom

Dr. Yuping Huang

Stevens Institute of Technology, USA



Lithium Niobate Nanophotonics for Quantum: Progress, Problems, and Prospects

Abstract:

Photonic Integrated circuits based on lithium niobate thin films have emerged as a strong candidate for quantum optics and information processing. In this talk, I will discuss the motivations, recent progress, outstanding challenges, and opportunities in this active research arena. In particular, I will report on our latest efforts to realize ultra-efficient photon generation, conversion, and interaction on chip.

Short bio: Dr. Yuping Huang is the Gallagher Associate Professor of Physics and the founding Director of the Center for Quantum Science and Engineering at Stevens Institute of Technology, located in New Jersey, USA. He received PhD from Michigan State University in 2009 and has worked in a variety of theoretical and experimental areas, including AMO physics, nonlinear optics, quantum optics, and quantum information science. His current research focuses on quantum remote sensing, quantum nanophotonics, and optical systems for big data processing.



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