

Stanford



Oguz Tolga Celik

Postdoctoral Scholar, Applied Physics

 Curriculum Vitae available Online

Bio

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Stanford University , EE-PHD (2026)
- Master of Science, Stanford University , EE-MS (2022)
- M.Sc., Stanford University , Electrical Engineering (2022)
- B.Sc., Bilkent University , Electrical and Electronics Engineering (2019)

STANFORD ADVISORS

- Amir Safavi-Naeini, Postdoctoral Faculty Sponsor

Research & Scholarship

LAB AFFILIATIONS

- Amir Safavi-Naeini, Laboratory for Integrated Nano-Quantum Systems (LINQS) (3/1/2020)

Publications

PUBLICATIONS

- **Roles of temperature, materials, and domain inversion in high-performance, low-bias-drift thin film lithium niobate blue light modulators** *OPTICS EXPRESS*
Celik, O., Ammar, N., Park, T., Stokowski, H. S., Multani, K. K. S., Hwang, A. Y., Gyger, S., Guo, Y., Fejer, M. M., Safavi-Naeini, A. H.
2024; 32 (21): 36160-36170
- **Single-mode squeezed-light generation and tomography with an integrated optical parametric oscillator.** *Science advances*
Park, T., Stokowski, H., Ansari, V., Gyger, S., Multani, K. K., Celik, O. T., Hwang, A. Y., Dean, D. J., Mayor, F., McKenna, T. P., Fejer, M. M., Safavi-Naeini, A.
2024; 10 (11): ead11814
- **Integrated frequency-modulated optical parametric oscillator.** *Nature*
Stokowski, H. S., Dean, D. J., Hwang, A. Y., Park, T., Celik, O. T., McKenna, T. P., Jankowski, M., Langrock, C., Ansari, V., Fejer, M. M., Safavi-Naeini, A. H.
2024; 627 (8002): 95-100
- **Integrated frequency-modulated optical parametric oscillator** *NATURE*
Stokowski, H. S., Dean, D. J., Hwang, A. Y., Park, T., Celik, O., McKenna, T. P., Jankowski, M., Langrock, C., Ansari, V., Fejer, M. M., Safavi-Naeini, A. H.
2024; 627 (8002)
- **Integrated quantum optical phase sensor in thin film lithium niobate.** *Nature communications*

Stokowski, H. S., McKenna, T. P., Park, T., Hwang, A. Y., Dean, D. J., Celik, O. T., Ansari, V., Fejer, M. M., Safavi-Naeini, A. H.
2023; 14 (1): 3355

● **Bias-stable Sub-Volt Visible Electro-optic Modulator in Thin-Film Lithium Niobate**

Celik, O., Ammar, N., Stokowski, H. S., Park, T., Safavi-Naeini, A., IEEE
IEEE.2023

● **High-bandwidth CMOS-voltage-level electro-optic modulation of 780 nm light in thin-film lithium niobate** *OPTICS EXPRESS*

Celik, O., Sarabalıs, C. J., Mayor, F. M., Stokowski, H. S., Herrmann, J. F., McKenna, T. P., Lee, N. R. A., Jiang, W., Multani, K. K. S., Safavi-Naeini, A. H.
2022; 30 (13): 23177-23186

● **Real-time impedimetric droplet measurement (iDM)** *LAB ON A CHIP*

Saateh, A., Kalantarifard, A., Celik, O., Asghari, M., Serhatlioglu, M., Elbuken, C.
2019; 19 (22): 3815–24

● **Analog Control of Retainable Resistance Multistates in HfO₂ Resistive-Switching Random Access Memories (ReRAMs)** *ACS APPLIED ELECTRONIC MATERIALS*

Giovinazzo, C., Sandrini, J., Shahrabi, E., Celik, O., Leblebici, Y., Ricciardi, C.
2019; 1 (6): 900–909