



Hubert Sylwester Stokowski

Postdoctoral Scholar, Applied Physics

 Curriculum Vitae available Online

Bio

HONORS AND AWARDS

- Stanford Graduate Fellowship 2020-23, Stanford University (05/2020)

STANFORD ADVISORS

- Amir Safavi-Naeini, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **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*
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- **Efficient Photonic Integration of Diamond Color Centers and Thin-Film Lithium Niobate** *ACS PHOTONICS*
Riedel, D., Lee, H., Herrmann, J. F., Grzesik, J., Ansari, V., Borit, J., Stokowski, H. S., Aghaeimeibodi, S., Lu, H., McQuade, P. J., Melosh, N. A., Shen, Z., Safavi-Naeini, et al
2023; 10 (12): 4236-4243
- **Mid-infrared spectroscopy with a broadly tunable thin-film lithium niobate optical parametric oscillator** *OPTICA*
Hwang, A., Stokowski, H. S., Park, T., Jankowski, M., McKenna, T. P., Langrock, C., Mishra, J., Ansari, V., Fejer, M. M., Safavi-Naeini, A. H. 2023; 10 (11): 1535-1542
- **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
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- **Tunable dual wavelength laser on thin film lithium niobate**
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- **Ultra-broadband mid-infrared generation in dispersion-engineered thin-film lithium niobate** *OPTICS EXPRESS*
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2022; 30 (18): 32752-32760

- **Ultra-low-power second-order nonlinear optics on a chip.** *Nature communications*
McKenna, T. P., Stokowski, H. S., Ansari, V., Mishra, J., Jankowski, M., Sarabalis, C. J., Herrmann, J. F., Langrock, C., Fejer, M. M., Safavi-Naeini, A. H.
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- **High-bandwidth CMOS-voltage-level electro-optic modulation of 780 nm light in thin-film lithium niobate** *OPTICS EXPRESS*
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- **High-efficiency second harmonic generation of blue light on thin-film lithium niobate.** *Optics letters*
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- **Mid-infrared nonlinear optics in thin-film lithium niobate on sapphire**
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- **Optical Parametric Oscillator in Thin-Film Lithium Niobate with a 130 μ W Threshold**
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- **Development of a Millimeter-Wave Transducer for Quantum Networks**
Multani, K. S., Stokowski, H., Snively, E., Patel, R., Jiang, W., Lee, N., Welander, P. B., Nanni, E. A., Safavi-Naeini, A. H., IEEE
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- **Depletion Layer Built-In Field at (1-100), (0001), and (000-1) GaN/Water Junction and Its Role in Semiconductor Nanowire Water Splitting** *ADVANCED MATERIALS INTERFACES*
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2016; 119 (18)
- **Bi-induced acceptor level responsible for partial compensation of native free electron density in InP_{1-x}Bi_x dilute bismide alloys** *JOURNAL OF PHYSICS D-APPLIED PHYSICS*
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