

Stanford

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Bio

STANFORD ADVISORS

- Alberto Salleo, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **A Scalable Perovskite Platform With Multi-State Photoresponsivity for In-Sensor Saliency Detection** *ADVANCED MATERIALS*
Xing, X., Tripathi, A., Ng, S., Yantara, N., Gong, Y., Wu, Q., Tay, Y., Lew, W., Chai, Y., Basu, A., Mathews, N.
2026: e73243
- **A Real-Time End-to-End Event-Based Tactile Sensing System** *IEEE TRANSACTIONS ON VERY LARGE SCALE INTEGRATION (VLSI) SYSTEMS*
Lu, Y., Seong, K., Ng, S., Varku, S., Basu, A., Mathews, N., Kim, T.
2026
- **Capacitive tuning of thyristor oscillators enables neuron-like signal amplification** *PHYSICAL REVIEW APPLIED*
Ng, S., Mathews, N., Fenollosa, R., Rubio-Magnieto, J., Bisquert, J.
2026; 25 (2)
- **Halide Perovskite Retinomorph In-Sensor Computing** *ACS ENERGY LETTERS*
Ng, S., Yantara, N., Mathews, N.
2025
- **Optical Learning and Reconfigurable Logic Utilizing Halide Perovskite Thin Film Transistors** *SMALL*
Nirmal, A., Tay, D., Yantara, N., Timothy, S., Sharma, D., Tay, Y., Mathews, N.
2025; 21 (25): e2409373