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Ph.D. Student in Electrical Engineering, admitted Autumn 2021

Publications

PUBLICATIONS

- **Modular Aptamer Switches for the Continuous Optical Detection of Small-Molecule Analytes in Complex Media.** *Advanced materials (Deerfield Beach, Fla.)*
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- **Optically Powered Milli-Scale Robot System for Nanoliter Fluid Delivery Based on Diamagnetic Levitation** *IEEE TRANSACTIONS ON MAGNETICS*
Beauchamp, M., Yee, S., O'Carroll, I., Chapman, E., ElBidweihy, H.
2023; 59 (11)
- **An antibody-based molecular switch for continuous small-molecule biosensing.** *Science advances*
Thompson, I. A., Saunders, J., Zheng, L., Hariri, A. A., Maganzini, N., Cartwright, A. P., Pan, J., Yee, S., Dory, C., Eisenstein, M., Vuckovic, J., Soh, H. T.
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- **Y-Z cut lithium niobate longitudinal piezoelectric resonant photoelastic modulator** *OPTICS EXPRESS*
Atalar, O., Yee, S., Safavi-Naeini, A., Arbabian, A.
2022; 30 (26): 47103-47114
- **Self-Powered High Energy Laser Detectors via Thermoelectric Generators**
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- **Photothermal actuation of levitated pyrolytic graphite revised** *APL Materials*
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- **High-energy laser detection through thermoelectric generators** *OPTICAL ENGINEERING*
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- **Autonomous Microrobotic Manipulation Using Visual Servo Control** *MICROMACHINES*
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2020; 11 (2)
- **Optical control and manipulation of diamagnetically levitated pyrolytic graphite** *AIP ADVANCES*
Young, J., Biggs, H., Yee, S., ElBidweihy, H.
2019; 9 (12)
- **Optomechanical Actuation of Diamagnetically Levitated Pyrolytic Graphite** *IEEE TRANSACTIONS ON MAGNETICS*
Ewall-Wice, M., Yee, S., DeLawder, K., Montgomery, S. R., Joyce, P. J., Brownell, C., ElBidweihy, H.
2019; 55 (7)
- **A Miniature Reconfigurable Circularly Polarized Antenna Using Liquid Microswitches**
Yee, S., Weinstein, D., Fiering, J., White, D., Duwel, A., IEEE
IEEE.2015
- **Microstrip Antenna Tuning using Variable Reactive Microelectromechanical Systems**

Yee, S. C., Anderson, C. R., Charles, H. K., Firebaugh, S. L., Mechtel, D. M., IEEE
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