

## Saisneha Koppaka

Ph.D. Student in Mechanical Engineering, admitted Spring 2018

### Publications

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#### PUBLICATIONS

- **Fabrication of a silicon mu Dicer for uniform microdissection of tissue samples** *APPLIED PHYSICS LETTERS*  
Cordts, S. C., Castano, N., Koppaka, S., Tang, S. Y.  
2021; 119 (1)
- **Fomite Transmission, Physicochemical Origin of Virus-Surface Interactions, and Disinfection Strategies for Enveloped Viruses with Applications to SARS-CoV-2.** *ACS omega*  
Castano, N., Cordts, S. C., Kurosu Jalil, M., Zhang, K. S., Koppaka, S., Bick, A. D., Paul, R., Tang, S. K.  
2021; 6 (10): 6509–27
- **Vision-based Autonomous Disinfection of High-touch Surfaces in Indoor Environments**  
Roelofs, S., Landry, B., Jalil, M., Martin, A., Koppaka, S., Tang, S. Y., Pavone, M., IEEE  
IEEE.2021: 263-270
- **Fabrication of 3D Micro-Blades for the Cutting of Biological Structures in a Microfluidic Guillotine.** *Micromachines*  
Koppaka, S., Zhang, K. S., Kurosu Jalil, M., Blauch, L. R., Tang, S. K.  
2021; 12 (9)
- **Numerical Modelling of Non-Linearities in MEMS Resonators** *JOURNAL OF MICROELECTROMECHANICAL SYSTEMS*  
Zega, V., Gattere, G., Koppaka, S., Alter, A., Vukasin, G. D., Frangi, A., Kenny, T. W.  
2020; 29 (6): 1443–54
- **Clocking the formation of today's largest galaxies: wide field integral spectroscopy of brightest cluster galaxies and their surroundings** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*  
Edwards, L. O., Salinas, M., Stanley, S., West, P., Trierweiler, I., Alpert, H., Coelho, P., Koppaka, S., Tremblay, G. R., Martel, H., Li, Y.  
2020; 491 (2): 2617–38
- **NONLINEARITY OF DEGENERATELY DOPED FLEXURAL MODE SILICON MICROMECHANICAL RESONATORS**  
Koppaka, S., Alter, A. L., Vukasin, G. D., Shin, D. D., Flader, I. B., Chen, Y., Kenny, T. W., IEEE  
IEEE.2019: 1897–1900