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Ph.D. Student in Mechanical Engineering, admitted Spring 2017

Publications

PUBLICATIONS

- **SMORES: a simple microfluidic operating room for the examination and surgery of Stentor coeruleus.** *Scientific reports*
Zhang, K. S., Rodriguez, R., Tang, S. K.
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- **Hydrodynamic dissection of Stentor coeruleus in a microfluidic cross junction.** *Lab on a chip*
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- **Microfluidic Surgery in Single Cells and Multicellular Systems.** *Chemical reviews*
Zhang, K. S., Nadkarni, A. V., Paul, R., Martin, A. M., Tang, S. K.
1800
- **Microfluidic guillotine reveals multiple timescales and mechanical modes of wound response in Stentor coeruleus.** *BMC biology*
Zhang, K. S., Blauch, L. R., Huang, W., Marshall, W. F., Tang, S. K.
2021; 19 (1): 63
- **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
- **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.
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- **The Pediatric Temporal-spatial Deviation Index: quantifying gait impairment for children with cerebral palsy.** *Developmental medicine and child neurology*
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- **Kirigami and the Caspar-Klug construction for viral shells with negative Gauss curvature** *PHYSICAL REVIEW E*
Perotti, L. E., Zhang, K., Rudnick, J., Bruinsma, R. F.
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