

Products: (key: **2017 REU students**, **2018 REU students**, **2019 REU students**, *REU faculty advisors*, * indicates CSU undergraduate/graduate collaborators)

Publications:

1. **Clark, J.**, Butt*, T. A., Mahajan*, G., *Kothapalli, C. R., Kaufman, M., and Fodor, P.* “Flow Modelling in Long Surface Patterned Micromixers Using Division in Multiple Geometrical Subunits” *COMSOL Conference* (2018): 1–6.
2. **Clark, J., Kaufman, M., and Fodor, P. S.** “Mixing Enhancement in Serpentine Micromixers with a Non-Rectangular Cross-Section” *Micromachines* 9, (2018): doi:10.3390/mi9030107
3. **Clark, J., Butt, T. A., Mahajan, G., Kothapalli, C. R., Kaufman, M., Fodor, P.,** “Performance and implementation of efficient serpentine micromixers with nonrectangular cross section”, *Journal of Micromechanics and Microengineering* 29, 075012 (2019). doi: 10.1088/1361-6439/ab146c
4. Kode*, V. R., **Thompson, M. E.**, McDonald*, C., **Weicherding, J., Dobrila, T. D., Fodor, P. S., Wirth, C. L., and Ao, G.** “Purification and Assembly of DNA-Stabilized Boron Nitride Nanotubes into Aligned Films” *ACS Applied Nano Materials* 2, (2019): 2099–2105. doi:10.1021/acsanm.9b00088
5. **Praljak, N.**, Ryan, S. D., and *Resnick, A.* “Pulsatile Flow Through Idealized Renal Tubules: Fluid-Structure Interaction and Dynamic Pathologies”, *Mathematical Biosciences and Engineering* 17(2) (2019): 1787–1807. doi: 10.3934/environsci.2015.2.203
6. Sarsfield*, M., Roberts*, A., *Streletzky, K.A., Fodor, P., Kothapalli, C. R.,* “Response surface methodology approach for optimization of gold nanoparticle synthesis in continuous-flow micromixers”, *submitted to Chemical Engineering Technology* (2020).). [based on **Matz’** work]
7. Freeman, K. G., **Adamczyk, J., and Streletzky, K. A.** “Towards Optimizing Synthesis Temperature for Microgels with Large Degree of Deswelling”, *Under Revision for Macromolecules* (2020).
8. **Tietjen, S.**, Scherer*, A., **Hudson, S., and Streletzky, K. A.** “The Dynamics of Polymeric Microgels with Varying Crosslinker Concentration” *Manuscript in Preparation* (2020).
9. *Resnick, A.* and **Duckworth, J.** “The Effect of Hypoxia on Primary Cilia Mechanical Properties” *Manuscript in Preparation* (2020).
10. Rashidi*, A., Dominguez-Medina, S., Efremenko, D., **Gregg, K., Wriedt, T., and Wirth, C.** “Mapping Evanescent Wave Scattering from Anisotropic Particles” *Manuscript in Preparation* (2020).
11. **Tietjen, S.**, Sent*, R., *Streletzky, K. A., Fodor, P. S.,* “Optimization of Microgel Imaging using SEM”, *to be Submitted to JURP* (2020).

Patents:

12. *Ao, G. et. al.* “Aligned Boron Nitride Nanotube Filaments” Provisional Patent #62797699 [based on **Weicherding’** and **Thompson** work]

Peer-reviewed abstracts:

1. Dobrila, T. D., Streletzky, K., and Fodor, P. S. “**Enhancing the Direct Visualization of Microgels via Scanning Electron Microscopy**” *The Ohio Journal of Science* 118, (2018): A48.
2. Tietjen, S., Hudson, S., and Streletzky, K. A. “**Studying the Effect of Crosslinker on Polymer Microgels**” *The Ohio Journal of Science* 118, (2018): A49.