

## Alex Hart

Ph.D. Student in Chemistry, admitted Autumn 2019

### Publications

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#### PUBLICATIONS

- **Acoustically activatable liposomes as a translational nanotechnology for site-targeted drug delivery and noninvasive neuromodulation.** *Nature nanotechnology*  
Purohit, M. P., Yu, B. J., Roy, K. S., Xiang, Y., Ewbank, S. N., Azadian, M. M., Hart, A. R., Muwanga, G. P., Martinez, P. J., Wang, J. B., Taoube, A. K., Markarian, E., Macedo, et al  
2025
- **Acoustomechanically activatable liposomes for ultrasonic drug uncaging.** *bioRxiv : the preprint server for biology*  
Purohit, M. P., Roy, K. S., Xiang, Y., Yu, B. J., Azadian, M. M., Muwanga, G., Hart, A. R., Taoube, A. K., Lopez, D. G., Airan, R. D.  
2023
- **Noninvasive ultrasonic induction of cerebrospinal fluid flow enhances intrathecal drug delivery.** *Journal of controlled release : official journal of the Controlled Release Society*  
Aryal, M., Azadian, M. M., Hart, A. R., Macedo, N., Zhou, Q., Rosenthal, E. L., Airan, R. D.  
2022
- **Using Passively Detected Acoustic Signals to Characterize Ultrasound Gated Nanoparticles**  
Singh, A., Xiang, Y., Sigona, M., Purohit, M., Hart, A., Hosseini-Nassab, N., Airan, R., Caskey, C., IEEE  
IEEE.2021