

# Stanford

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## Tuan Trinh

Postdoctoral Scholar, Radiology

### Bio

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#### PROFESSIONAL EDUCATION

- Doctor of Philosophy, McGill University , Chemistry (2019)
- Bachelor of Science, Korea Advanced Institute of Science and Technology , Chemistry (2014)

### Publications

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#### PUBLICATIONS

- **Supramolecular Nucleic Acid-Based Organosilica Nanoparticles Responsive to Physical and Biological Inputs.** *Journal of the American Chemical Society*  
Picchetti, P., Volpi, S., Sancho-Albero, M., Rossetti, M., Dore, M. D., Trinh, T., Biedermann, F., Neri, M., Bertucci, A., Porchetta, A., Corradini, R., Sleiman, H., De Cola, et al  
2023
- **Responsive Nucleic Acid-Based Organosilica Nanoparticles.** *Journal of the American Chemical Society*  
Picchetti, P., Volpi, S., Rossetti, M., Dore, M. D., Trinh, T., Biedermann, F., Neri, M., Bertucci, A., Porchetta, A., Corradini, R., Sleiman, H., De Cola, L.  
2023
- **A Photoresponsive Intramolecular Triplex Motif That Enables Rapid and Reversible Control of Aptamer Binding Activity.** *ACS nano*  
Trinh, T., Thompson, I. A., Clark, F., Remington, J. M., Eisenstein, M., Li, J., Soh, H. T.  
2022
- **Asymmetric patterning drives the folding of a tripodal DNA nanotweezer** *CHEMICAL SCIENCE*  
Saliba, D., Trinh, T., Lachance-Brais, C., Prinzen, A. L., Rizzuto, F. J., de Rochambeau, D., Sleiman, H. F.  
2021; 13 (1): 74-80
- **Thermosetting supramolecular polymerization of compartmentalized DNA fibers with stereo sequence and length control** *CHEM*  
Dore, M. D., Trinh, T., Zorman, M., de Rochambeau, D., Platnich, C. M., Xu, P., Luo, X., Remington, J. M., Toader, V., Cosa, G., Li, J., Sleiman, H. F.  
2021; 7 (9): 2395-2414
- **Amplified Self-Immulative Release of Small Molecules by Spatial Isolation of Reactive Groups on DNA-Minimal Architectures** *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*  
Prinzen, A. L., Saliba, D., Hennecker, C., Trinh, T., Mittermaier, A., Sleiman, H. F.  
2020; 59 (31): 12900-12908
- **"Printing" DNA Strand Patterns on Small Molecules with Control of Valency, Directionality, and Sequence** *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*  
Trinh, T., Saliba, D., Liao, C., de Rochambeau, D., Prinzen, A., Li, J., Sleiman, H. F.  
2019; 58 (10): 3042-3047
- **DNA Nanotubes with Hydrophobic Environments: Toward New Platforms for Guest Encapsulation and Cellular Delivery** *ADVANCED HEALTHCARE MATERIALS*  
Rahbani, J. F., Vengut-Climent, E., Chidchob, P., Gidi, Y., Tuan Trinh, Cosa, G., Sleiman, H. F.  
2018; 7 (6): e1701049
- **DNA-imprinted polymer nanoparticles with monodispersity and prescribed DNA-strand patterns** *NATURE CHEMISTRY*  
Tuan Trinh, Liao, C., Toader, V., Barlog, M., Bazzi, H. S., Li, J., Sleiman, H. F.

2018; 10 (2): 184-192

● **Light-induced picosecond rotational disordering of the inorganic sublattice in hybrid perovskites.** *Science advances*

Wu, X. n., Tan, L. Z., Shen, X. n., Hu, T. n., Miyata, K. n., Trinh, M. T., Li, R. n., Coffee, R. n., Liu, S. n., Egger, D. A., Makasyuk, I. n., Zheng, Q. n., Fry, et al 2017; 3 (7): e1602388

● **DNA micelles as nanoreactors: efficient DNA functionalization with hydrophobic organic molecules** *CHEMICAL COMMUNICATIONS*

Trinh, T., Chidchob, P., Bazzi, H. S., Sleiman, H. F.  
2016; 52 (72): 10914-10917

● **Antisense precision polymer micelles require less poly(ethylenimine) for efficient gene knockdown (vol 7, pg 20625, 2015) NANOSCALE**

Fakhoury, J. J., Edwardson, T. G., Conway, J. W., Trinh, T., Khan, F., Barlog, M., Bazzi, H. S., Sleiman, H. F.  
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● **Antisense precision polymer micelles require less poly(ethylenimine) for efficient gene knockdown NANOSCALE**

Fakhoury, J. J., Edwardson, T. G., Conway, J. W., Tuan Trinh, Khan, F., Barlog, M., Bazzi, H. S., Sleiman, H. F.  
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