

Tuan Trinh

Postdoctoral Scholar, Radiology

Bio

PROFESSIONAL EDUCATION

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

Publications

PUBLICATIONS

- **Heat-activated growth of metastable and length-defined DNA fibers expands traditional polymer assembly.** *Nature communications*
Dore, M. D., Rafique, M. G., Yang, T. P., Zorman, M., Platnich, C. M., Xu, P., Trinh, T., Rizzuto, F. J., Cosa, G., Li, J., Guarné, A., Sleiman, H. F.
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- **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*
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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.
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- **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

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

Trinh, T., Chidchob, P., Bazzi, H. S., Sleiman, H. F.

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● **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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