



Yuanwei Li

Postdoctoral Scholar, Materials Science and Engineering

Bio

HONORS AND AWARDS

- Ryan Fellow, Northwestern University (2020-2023)
- MIT Chemical Engineering Rising Stars, Massachusetts Institute of Technology (2023)
- SPIE Optics and Photonics Education Scholarship, The International Society for Optics and Photonics (2022)
- Ludo Frevel Crystallography Scholarship, The International Centre for Diffraction Data (2022)
- MRS Graduate Student Award, Materials Research Society (2022)
- IIN Outstanding Research Award, International Institute for Nanotechnology (2022)

STANFORD ADVISORS

- Jennifer Dionne, Postdoctoral Faculty Sponsor

LINKS

- Personal Website: <https://sites.google.com/u.northwestern.edu/yuanweili>

Publications

PUBLICATIONS

- **Space-tiled colloidal crystals from DNA-forced shape-complementary polyhedra pairing.** *Science (New York, N.Y.)*
Zhou, W., Li, Y., Je, K., Vo, T., Lin, H., Partridge, B. E., Huang, Z., Glotzer, S. C., Mirkin, C. A.
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- **Colloidal quasicrystals engineered with DNA.** *Nature materials*
Zhou, W., Lim, Y., Lin, H., Lee, S., Li, Y., Huang, Z., Du, J. S., Lee, B., Wang, S., Sanchez-Iglesias, A., Grzelczak, M., Liz-Marzan, L. M., Glotzer, et al
2023
- **Ultrastrong colloidal crystal metamaterials engineered with DNA.** *Science advances*
Li, Y., Jin, H., Zhou, W., Wang, Z., Lin, Z., Mirkin, C. A., Espinosa, H. D.
2023; 9 (39): eadj8103
- **Dynamic Metal-Phenolic Coordination Complexes for Versatile Surface Nanopatterning.** *Journal of the American Chemical Society*
Chen, C., Lin, M., Wahl, C., Li, Y., Zhou, W., Wang, Z., Zhang, Y., Mirkin, C. A.
2023; 145 (14): 7974-7982
- **Open-channel metal particle superlattices.** *Nature*
Li, Y., Zhou, W., Tanriver, I., Hadibrata, W., Partridge, B. E., Lin, H., Hu, X., Lee, B., Liu, J., Dravid, V. P., Aydin, K., Mirkin, C. A.
2022; 611 (7937): 695-701

- **Monolayer Plasmonic Nanoframes as Large-Area, Broadband Metasurface Absorbers.** *Small (Weinheim an der Bergstrasse, Germany)*
Li, Y., Tanriover, I., Zhou, W., Hadibrata, W., Dereshgi, S. A., Samanta, D., Aydin, K., Mirkin, C. A.
2022; 18 (33): e2201171
- **Corner-, edge-, and facet-controlled growth of nanocrystals.** *Science advances*
Li, Y., Lin, H., Zhou, W., Sun, L., Samanta, D., Mirkin, C. A.
2021; 7 (3)
- **Position- and Orientation-Controlled Growth of Wulff-Shaped Colloidal Crystals Engineered with DNA.** *Advanced materials (Deerfield Beach, Fla.)*
Sun, L., Lin, H., Li, Y., Zhou, W., Du, J. S., Mirkin, C. A.
2020; 32 (47): e2005316
- **Constructing conductive multi-walled carbon nanotubes network inside hexagonal boron nitride network in polymer composites for significantly improved dielectric property and thermal conductivity** *COMPOSITES SCIENCE AND TECHNOLOGY*
Wu, K., Li, Y., Huang, R., Chai, S., Chen, F., Fu, Q.
2017; 151: 193-201