

Stanford

Junyi Chen

Postdoctoral Scholar, Stanford Cancer Institute

Bio

PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of California Riverside (2023)
- Bachelor of Science, University of Science and Technology of China (2018)
- Ph.D., University of California, Riverside , Environmental Toxicology (2023)
- B.S., University of Science and Technology of China , Chemistry (2018)

STANFORD ADVISORS

- Haopeng Xiao, Postdoctoral Faculty Sponsor

Research & Scholarship

LAB AFFILIATIONS

- Haopeng Xiao (11/1/2024)

Publications

PUBLICATIONS

- **Covariation MS uncovers a protein that controls cysteine catabolism.** *Nature*
Xiao, H., Ordonez, M., Fink, E. C., Covington, T. A., Woldemichael, H. B., Chen, J., Jain, M. S., Rohatgi, M. H., Wei, S. M., Burger, N., Sharif, M. A., Jan, J., Wang, et al
2025
- **Supramolecular Host:Guest Arrays Site-Selectively Recognize Peptide Phosphorylation and Kinase Activity** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Chen, J., Fasihianifard, P., Lian, R., Gibson-Elias, L. J., Moreno, J. L., Chang, C. A., Zhong, W., Hooley, R. J.
2024
- **Optical discrimination of terpenes in citrus peels with a host:guest sensing array.** *Chemical communications (Cambridge, England)*
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2024; 60 (43): 5598-5601
- **Selective recognition and discrimination of single isomeric changes in peptide strands with a host : guest sensing array.** *Chemical science*
Chen, J., Fasihianifard, P., Raz, A. A., Hickey, B. L., Moreno, J. L., Chang, C. A., Hooley, R. J., Zhong, W.
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- **Selective Molecular Recognition and Indicator Displacement Sensing of Neurotransmitters in Cellular Environments.** *ACS sensors*
Chen, J., Tabaie, E. Z., Hickey, B. L., Gao, Z., Raz, A. A., Li, Z., Wilson, E. H., Hooley, R. J., Zhong, W.
2023; 8 (8): 3195-3204
- **Applications of Synthetic Receptors in Bioanalysis and Drug Transport.** *Bioconjugate chemistry*
Chen, J., Hooley, R. J., Zhong, W.
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- **Sensing Base Modifications in Non-Canonically Folded DNA with an Optimized Host:Guest Sensing Array.** *ACS sensors*
Chen, J., Hickey, B. L., Gao, Z., Raz, A. A., Hooley, R. J., Zhong, W.
2022; 7 (8): 2164-2169
- **Machine Learning Aids Classification and Discrimination of Noncanonical DNA Folding Motifs by an Arrayed Host:Guest Sensing System.** *Journal of the American Chemical Society*
Chen, J., Gill, A. D., Hickey, B. L., Gao, Z., Cui, X., Hooley, R. J., Zhong, W.
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- **Selective discrimination and classification of G-quadruplex structures with a host-guest sensing array.** *Nature chemistry*
Chen, J., Hickey, B. L., Wang, L., Lee, J., Gill, A. D., Favero, A., Pinalli, R., Dalcanale, E., Hooley, R. J., Zhong, W.
2021; 13 (5): 488-495
- **Self-Aggregative Recognition and Extraction of Perfluorooctanesulfonate with Flexible Cationic Water-Soluble Deep Cavitands** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Lian, R., Yang, Y., Moreno Jr, J. L., Eggimann, B. L., Chen, J., Gibson-Elias, L. J., Williams, C. G., Jiang, P., Lee, A. J., Mueller, L. J., Sessler, J. L., Siepmann, J., Johnson, et al
2025
- **Solvent Effects and Internal Functions Control Molecular Recognition of Neutral Substrates in Functionalized Self-Assembled Cages** *JOURNAL OF ORGANIC CHEMISTRY*
Woods, C. Z., Sharma, K., Chen, C., Yang, L., Chen, J., Wu, Y., Farooqi, N. S., Zhang, J., Julian, R. R., Hooley, R. J.
2024
- **Colocalization of protein and microRNA markers reveals unique extracellular vesicle subpopulations for early cancer detection.** *Science advances*
Li, Z., Guo, K., Gao, Z., Chen, J., Ye, Z., Cao, M., Wang, S. E., Yin, Y., Zhong, W.
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- **Low-Dose Exposure of WS2 Nanosheets Induces Differential Apoptosis in Lung Epithelial Cells.** *Environmental science & technology*
Coreas, R., Li, Z., Chen, J., Zhong, W.
2023; 57 (39): 14493-14501
- **Selective anion sensing in high salt water via a remote indicator displacement assay.** *Chemical communications (Cambridge, England)*
Hickey, B. L., Raz, A. A., Chen, J., Moreno, J. L., Hartman, J. D., Zhong, W., Hooley, R. J.
2023; 59 (50): 7819-7822
- **Biological Impacts of Reduced Graphene Oxide Affected by Protein Corona Formation.** *Chemical research in toxicology*
Coreas, R., Castillo, C., Li, Z., Yan, D., Gao, Z., Chen, J., Bitounis, D., Parviz, D., Strano, M. S., Demokritou, P., Zhong, W.
2022; 35 (7): 1244-1256
- **Enantioselective sensing of insect pheromones in water.** *Chemical communications (Cambridge, England)*
Hickey, B. L., Chen, J., Zou, Y., Gill, A. D., Zhong, W., Millar, J. G., Hooley, R. J.
2021; 57 (98): 13341-13344
- **Monitoring the crosstalk between methylation and phosphorylation on histone peptides with host-assisted capillary electrophoresis.** *Analytical and bioanalytical chemistry*
Lee, J., Chen, J., Sarkar, P., Xue, M., Hooley, R. J., Zhong, W.
2020; 412 (24): 6189-6198