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特聘研究员, 博士生导师, 实验室独立 PI, 西湖大学工学院

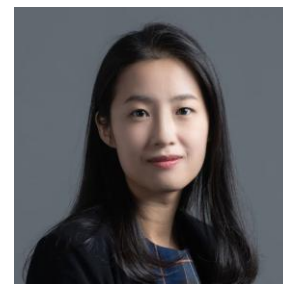
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教育背景

博士	纳米工程, 加利福尼亚大学圣地亚哥分校, 美国	2019
硕士	纳米工程, 加利福尼亚大学圣地亚哥分校, 美国	2015
学士	药学院, 华中科技大学, 中国	2014

学术任职

研究员	工学院, 生命科学学院 (兼聘), 西湖大学, 中国	2022
博士后	生物工程, 加州大学圣地亚哥分校, 美国	2019

荣誉和奖励

1. 国家自然科学基金青年科学基金项目 (B 类)
2. 中国生物材料学会 (CAB) 青年学者奖
3. 《Journal of Materials Chemistry B》新锐科学家
4. 浙江省海外高层次人才引进计划
5. 杭州市海外高层次人才引进计划
6. Keystone Symposia 奖学金
7. Nanoscale Horizons 研讨会优秀海报奖
8. Nature Conference Translational Biomaterials 最佳海报奖
9. 加州大学圣地亚哥分校 (UC San Diego) 研究博览会最佳海报奖
10. 加州大学圣地亚哥分校 (UC San Diego) 纳米工程系 Nanoexpo 二等奖
11. 加州大学圣地亚哥分校 (UC San Diego) 医学工程研究所奖学金
12. 国家留学基金委国家建设高水平大学公派博士研究生项目
13. 国家留学基金委优秀本科生海外交流项目

同行评议论文 (Google scholar citation: 4660, h-index = 23, 3/26 ranked as ESI top 1%)

1. Huang, J., Fu, H., Zhai, L., Wang, S., Fan, W., Alimohamadi, H. *, Chen, H. *, **Zhang, Y. ***, *Cell Biomaterials*, In press.
2. **Zhang, Y. ***, et al., "SARS-CoV-2 peptide fragments selectively dysregulate specific immune cell populations via Gaussian curvature targeting", *Proc. Natl. Acad. Sci. U. S. A.*, 2026, 123 (2) e2521841122.
Link: <https://www.pnas.org/doi/10.1073/pnas.2521841122>.
3. Gao, M., Zhong, J., Liu, X., Zhao, Y., Zhu, D., Shi, X., Xu, X., Zhou, Q., Xuan, W., **Zhang, Y.**, Zhou, Y., Cheng, J. "Deciphering the role of PEGylation on the lipid nanoparticle-mediated mRNA delivery to the liver", *ACS nano*, 2025, 19(6), 5966-5978.
4. Wang, H., Fu, H., Zhai, L., Le, J., Guo, B., Zhou, Y., Ji, C., Li, D., **Zhang, Y. ***, "Nanocrystalline Alloy-Mediated Delivery of Mosaic Epitope Peptides for Universal Influenza Vaccine", *J. Mater. Chem. B*, Emerging Investigators 2025 issue, 2024,12, 12530-12539.
5. Fu, H., Zhai, L., Wang, H., Li, M., Wang, G. *, **Zhang, Y. ***, "SARS-CoV-2 viral remnants and implications for inflammation and post-acute infection sequelae", *Curr. Opin. Solid State Mater. Sci.* 2024, 33, 101191.
Link: <https://www.sciencedirect.com/science/article/pii/S1359028624000573>.
6. Liu, X., Chen, S., Huang, J., Du, Y., Zhi, L., **Zhang, Y. ***, Liu, L. *, Chen, Y. *, "Synthetic Polypeptides Inhibit Nucleic Acid-induced Inflammation in Autoimmune Diseases by Disrupting Bundled DNA's Multivalent Binding to TLR9", *Nature Nanotechnology* 2024, 19, 1745–1756.
Link: <https://www.nature.com/articles/s41565-024-01759-2>.
7. **Zhang, Y.**, et al., "Viral afterlife: SARS-CoV-2 as a reservoir of immunomimetic peptides that re-assemble into pro-inflammatory supramolecular complexes", *Proc. Natl. Acad. Sci. U. S. A.* 2024, 121 (6) e2300644120.
Link: <https://www.pnas.org/doi/full/10.1073/pnas.2300644120>.
8. **Zhang, Y.**; Chen, Y.; Lo, C.; Zhuang, J.; Angsantikul, P.; Zhang, Q.; Wei, X.; Zhou, Z.; Obonyo, M.; Fang, R.; Gao, W.; Zhang, L. *, "Inhibition of pathogen adhesion by bacterial outer membrane-coated nanoparticles", *Angewandte Chemie International Edition* 2019, 58, 11404-11408.
9. Karshalev, E.; **Zhang, Y.**; Bsteban-Fernandez de Avila, B.; Beltran-Gastelum, M.; Chen, Y.; Mundaca-Uribe, R.; Zhang, F.; Nguyen, B.; Tong, Y.; Fang, R.; Zhang, L., Wang, J. *, "Micromotors for active delivery of minerals toward the treatment of iron deficiency anemia", *Nano Letters* 2019, 19, 7816-7826. (co-first author)
10. **Zhang, Y.**; Miyamoto, Y.; Ihara, S.; Yang, J.; Zuill, D.; Angsantikul, P.; Zhang, Q.; Gao, W.; Zhang, L., Eckmann, L. *, "Composite thermoresponsive hydrogel with auranofin-loaded nanoparticles for topical treatment of vaginal trichomonad infection", *Advanced Therapeutics* 2019, 2, 1900157.
11. Chen, Y.; **Zhang, Y.**; Chen, M.; Zhuang, J.; Fang, R.; Gao, W.; Zhang, L. "Biomimetic nanosponges suppress the in vivo lethality induced by the whole secreted proteins of pathogenic bacteria", *Small* 2019, 15, 1804994.
12. Chen, Y.; **Zhang, Y.**; Zhuang, J.; Lee, J. H.; Wang, L.; Fang, R.; Gao, W.; Zhang, L. *, "Cell membrane-cloaked oil nanosponges enable dual-modal detoxification", *ACS Nano* 2019, 13, 7209-7215.
13. Gong, H.; Chen, F.; Huang, Z.; Gu, Y.; Zhang, Q.; Chen, Y.; **Zhang, Y.**; Zhuang, J.; Cho, Y.; Fang, R.; Gao, W.; Xu, S.; Zhang, L. *, "Biomembrane-modified field effect transistors for sensitive and quantitative detection of biological toxins and pathogens", *ACS Nano* 2019, 13, 3714-3722.
14. Zhang, F.; Mundaca-Uribe, R.; Gong, H.; Bsteban-Fernandez de Avila, B.; Beltran-Gastelum, M.; Karshalev, E.; Nourhani, A.; Tong, Y.; Nguyen, B.; Gallot, M.; **Zhang, Y.**; Zhang, L., Wang, J. *, "A macrophage-magnesium hybrid biomotor: Fabrication and characterization", *Advanced Materials* 2019, 31, 1901828
15. Zhuang, J.; Ying, M.; Spiekermann, K.; Holay, M.; **Zhang, Y.**; Chen, F.; Gong, H.; Lee, J-H.; Gao, W.; Fang, R.; Zhang, L. *, "Biomimetic nanoemulsions for oxygen delivery in vivo", *Advanced Materials* 2018, 30, 1805693.

16. Zhang, Q.; Dehaini, D.; **Zhang, Y.**; Zhou, J.; Chen, X.; Zhang, L.; Fang, R.; Gao, W.; Zhang, L. *, "Neutrophil membrane-coated nanoparticles inhibit synovial inflammation and alleviate joint damage in inflammatory arthritis", *Nature Nanotechnology* 2018, 13, 1182-1190.
17. Ying, M.; Zhuang, J.; Wei, X.; Zhang, X.; **Zhang, Y.**; Jiang, Y.; Dehaini, D.; Chen, M.; Gu, S.; Gao, W.; Lu, W.; Fang, R.; Zhang, L. *, "Remote-loaded platelet vesicles for disease-targeted delivery of therapeutics", *Advanced Functional Materials* 2018, 28, 1801032.
18. Chen, Y.; Chen, M.; **Zhang, Y.**; Lee, J. H.; Escajadillo, T.; Gong, H.; Fang, R.; Gao, W.; Nizet, V.; Zhang, L. *, "Broad-spectrum neutralization of pore-forming toxins with human erythrocyte membrane-coated nanosponges", *Advanced Healthcare Materials* 2018, 7, 1701366.
19. Gao, W.; Chen, Y.; **Zhang, Y.**; Zhang, Q.; Zhang, L. *, "Nanoparticle-based local antimicrobial drug delivery", *Advanced Drug Delivery Reviews* 2018, 127, 46-57.
20. Li, J.; Angsantikul, P.; Liu, W.; Esteban-Fernandez de Avila, B.; Chang, X.; Sandraz, E.; Liang, Y.; Zhu, S.; **Zhang, Y.**; Chen, C.; Gao, W.; Zhang, L., Wang, J. *, "Biomimetic platelet-camouflaged nanorobots for binding and isolation of biological threats", *Advanced Materials* 2018, 30, 1704800.
21. **Zhang, Y.**; Gao, W.; Chen, Y.; Escajadillo, T.; Ungerleider, J.; Fang, R.; Christman, K.; Nizet, V.; Zhang, L. *, "Self-assembled colloidal gel using cell membrane-coated nanosponges as building blocks", *ACS Nano* 2017, 11, 11923-11930.
22. **Zhang, Y.**; Zhang, J.; Chen, W.; Angsantikul, P.; Spiekermann, K.; Fang, R.; Gao, W.; Zhang, L. *, "Erythrocyte membrane-coated nanogel for combinatorial antivirulence and responsive antimicrobial delivery against *Staphylococcus aureus* infection", *Journal of Controlled Release* 2017, 263, 185-191.
23. **Zhang, Y.**; Zhang, J.; Chen, M.; Gong, H.; Thamphiwatana, S.; Eckmann, L.; Gao, W.; Zhang, L. *, "A bioadhesive nanoparticle-hydrogel hybrid system for localized antimicrobial drug delivery", *ACS Applied Materials & Interfaces* 2016, 8, 18367-18374.
24. Zhang, X.; Angsantikul, P.; Ying, M.; Zhuang, J.; Zhang, Q.; Wei, X.; Jiang, Y.; **Zhang, Y.**; Dehaini, D.; Chen, M.; Chen, Y.; Gao, W.; Fang, R.; Zhang, L. *, "Remote loading of small molecule therapeutics into cholesterol-enriched cell membrane-derived vesicles", *Angewandte Chemie International Edition* 2017, 56, 14075-14079.
25. Chen, M.; **Zhang, Y.**; Zhang, L. *, "Fabrication and characterization of a 3D bioprinted nanoparticle-hydrogel hybrid device for biomimetic detoxification", *Nanoscale* 2017, 9, 14506-14511.
26. Dehaini, D.; Wei, X.; Fang, R.; Masson, S.; Angsantikul, P.; Luk, B.; **Zhang, Y.**; Ying, M.; Jiang, Y.; Kroll, A.; Gao, W.; Zhang, L. *, "Erythrocyte-platelet hybrid membrane coating for enhanced nanoparticle functionalization", *Advanced Materials* 2017, 29, 1606209.
27. Gao, W.; **Zhang, Y.**; Zhang, Q.; Zhang, L. *, "Nanoparticle-hydrogel: A hybrid biomaterial system for localized drug delivery", *Annals of Biomedical Engineering* 2016, 44, 2049-2061.

专利

1. 张越, 王宏宇, 付涵, 一种基于自组装原理的多表位肽复合疫苗及其制备方法与应用, 实质审查, 202411293194.9。
2. 张越, 陈虹宇, 黄洁, 付涵, 翟立言, 王树鹏, 范文德, 一种基于溶剂平衡与巯基锚定的通用型细胞膜纳米颗粒包覆方法及其应用, 实质审查, 202511548174.6。

特邀报告

1. 2025 Antimicrobial Peptides Conference, Gordan research Conference, Ventura, United States, 2025
2. 2024 Biointerface Science Conference, Gordan research Conference, Lucca, Italy, 2024
3. SheTech Summit, Beyond Expo, 2024
4. 材料生物学的新技术和新策略, 第 348 期双清论坛, 长春, 2023
5. 高分子青年学者论坛, 2023 全国高分子学术论文报告会, 武汉, 2023
6. 第六届“亚洲药剂学论坛”, 郑州, 2023
7. 医理工交叉融合创新论坛, 温州, 2023
8. 生物医用高分子材料大会, 厦门, 2023
9. 核酸递送研讨会, 杭州, 浙江, 2023
10. 第十五届中国药物制剂大会, 上海, 2022

教书育人

1. 指导本科生毕业设计, 被评为浙江大学生命科学学院优秀论文 (10/70) , 2023
2. 指导美国高中生 Health Virtual COVID-19 Innovation Event, 获得第一名, 2020
3. 在加州大学圣地亚哥分校期间, 任 Nano243 Nanomedicine 助教, 2018
4. 指导国家科学基金会 Research Experiences for Undergraduates (REU) 暑期项目的学员, 2017
5. 指导 4 位清华暑期学堂的学员, 2016-2018

学术任职

- 《Bioactive Materials》青年编委 (IF=18.9, 2023 至今)
- 《亚洲药物制剂科学》青年编委 (IF=9.3, 2023-2024)
- ACS Nano, Pharmaceutics, Nanomaterials, Applied Sciences, Acta Biomaterialia, Molecules, Processes, Current Opinion in Solid State & Materials Science 等学术期刊的审稿人。

社会服务

- Co-chair, Communication Committee, Chinese Society of Biomaterials. (2024 till now)
- Vice chair of Career Development, Postdoc association, UCLA (2021-2022)
- Vice President of U.S. Southwestern Chinese Students and Scholars Association, Los Angeles. (2017-2018)
- President of UCSD Chinese Students and Scholars Association, San Diego. (2016-2018)

会员

- 华人生物材料协会 (CAB, 2024 年至今)
- 美国科学促进会 (AAAS, 2023 年至今)
- 中国生物物理学会 (2023 年至今)
- 中国药学会 (2023 年至今)

媒体报道

- Nature Nanotechnology 2018, 13, 1098-1099.
- Nature Reviews Rheumatology 2018, 14, 622.
- Science Translational Medicine 2018, 10 (459), eaav0341.