

IDENTIFYING INFORMATION:

NAME: Li, Jinghua

ORCID iD: <https://orcid.org/0000-0001-8985-566X>

POSITION TITLE: Assistant Professor

PRIMARY ORGANIZATION AND LOCATION: The Ohio State University, Columbus, Ohio, United States

Professional Preparation:

ORGANIZATION AND LOCATION	DEGREE (if applicable)	RECEIPT DATE	FIELD OF STUDY
Northwestern University, Evanston, Illinois, United States	Postdoctoral Fellow	06/2016 - 08/2019	Materials Science and Engineering
Duke University, Durham, North Carolina, United States	PHD	05/2016	Chemistry
Shandong University, Jinan, Not Applicable, N/A, China	BS	06/2011	Biological Sciences

Appointments and Positions

2019 - present Assistant Professor, The Ohio State University, Columbus, Ohio, United States

Products**Products Most Closely Related to the Proposed Project**

1. Dong Y, Chen S, Liu TL, Li J. Materials and Interface Designs of Waterproof Field-Effect Transistor Arrays for Detection of Neurological Biomarkers. *Small*. 2022 Mar;18(11):e2106866. PubMed Central PMCID: [PMC8930526](https://pubmed.ncbi.nlm.nih.gov/3530526/).
2. Liu T, Dong Y, Chen S, Zhou J, Ma Z, Li J. Battery-free, tuning circuit-inspired wireless sensor systems for detection of multiple biomarkers in bodily fluids. *Science Advances*. 2022 July 08; 8(27):- . Available from: <https://www.science.org/doi/10.1126/sciadv.abo7049> DOI: 10.1126/sciadv.abo7049
3. Dong Y, Liu T, Chen S, Nithianandam P, Matar K, Li J. A “Two-Part” Resonance Circuit based Detachable Sweat Patch for Noninvasive Biochemical and Biophysical Sensing. *Advanced Functional Materials*. 2022 November 28; 33(6):- . Available from: <https://onlinelibrary.wiley.com/doi/10.1002/adfm.202210136> DOI: 10.1002/adfm.202210136
4. Chen S, Liu T, Dong Y, Li J. A Wireless, Regeneratable Cocaine Sensing Scheme Enabled by Allosteric Regulation of pH Sensitive Aptamers. *ACS Nano*. 2022 December 05; 16(12):20922-20936. Available from: <https://pubs.acs.org/doi/10.1021/acsnano.2c08511> DOI: 10.1021/acsnano.2c08511
5. Nithianandam P, Liu T, Chen S, Jia Y, Dong Y, Saul M, Tedeschi A, Sun W, Li J. Flexible, Miniaturized Sensing Probes Inspired by Biofuel Cells for Monitoring Synaptically Released Glutamate in the Mouse Brain. *Angewandte Chemie*. 2023 September 13; 135(42):- . Available from: <https://onlinelibrary.wiley.com/doi/10.1002/ange.202310245> DOI: 10.1002/ange.202310245

Other Significant Products, Whether or Not Related to the Proposed Project

1. Jia Y, Nithianandam P, Liu T, Li J. Development of Wearable Chemical Sensors: An Interdisciplinary Undergraduate Laboratory Experiment Facilitating Knowledge and Expertise Integration. *Journal of Chemical Education*. 2023 August 18; 100(9):3595-3603. Available from: <https://pubs.acs.org/doi/10.1021/acs.jchemed.3c00379> DOI: 10.1021/acs.jchemed.3c00379
2. Wang Q, Yang C, Chen S, Li J. Miniaturized Electrochemical Sensing Platforms for Quantitative Monitoring of Glutamate Dynamics in the Central Nervous System. *Angewandte Chemie International Edition*. 2024 July 17; :- . Available from: <https://onlinelibrary.wiley.com/doi/10.1002/anie.202406867> DOI: 10.1002/anie.202406867
3. Chen S, Dong Y, Liu T, Li J. Waterproof, flexible field-effect transistors with submicron monocrystalline Si nanomembrane derived encapsulation for continuous pH sensing. *Biosensors and Bioelectronics*. 2022 January; 195:113683-. Available from: <https://linkinghub.elsevier.com/retrieve/pii/S095656632100720X> DOI: 10.1016/j.bios.2021.113683
4. Li J, Song E, Chiang CH, Yu KJ, Koo J, Du H, Zhong Y, Hill M, Wang C, Zhang J, Chen Y, Tian L, Zhong Y, Fang G, Viventi J, Rogers JA. Conductively coupled flexible silicon electronic systems for chronic neural electrophysiology. *Proc Natl Acad Sci U S A*. 2018 Oct 9;115(41):E9542-E9549. PubMed Central PMCID: [PMC6187144](https://pubmed.ncbi.nlm.nih.gov/3187144/).
5. Jia Y, Chen S, Wang Q, Li J. Recent progress in biosensor regeneration techniques. *Nanoscale*. 2024; 16(6):2834-2846. Available from: <https://xlink.rsc.org/?DOI=D3NR05456J> DOI: 10.1039/D3NR05456J

Certification:

I certify that the information provided is current, accurate, and complete. This includes but is not limited to current, pending, and other support (both foreign and domestic) as defined in 42 U.S.C. § 6605.

I also certify that, at the time of submission, I am not a party to a malign foreign talent recruitment program.

Misrepresentations and/or omissions may be subject to prosecution and liability pursuant to, but not limited to, 18 U.S.C. §§ 287, 1001, 1031 and 31 U.S.C. §§ 3729-3733 and 3802.

Certified by Li, Jinghua in SciENcv on 2024-09-12 12:20:01