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个人简介

男, 浙江慈溪人。获合肥工业大学学士和硕士学位 (2000, 2003)、东南大学博士学位 (2006)。国家卫星气象中心联培研究生 (2001-2002)、The University of Tennessee (Knoxville, USA) 国家公派访问学者 (2016-2017)、传感技术国家重点实验室客座研究员 (2023-)。曾就职于合肥工业大学 (2006-2021), 现任温州大学教授 (2021-), 入选温州市瓯越英才计划 (2024-)。

学术兼职

- IEEE Member, 中国微米纳米技术学会高级会员、中国微米纳米技术学会 BioMEMS 技术分会理事
- 国家科技专家库专家 (国家级领军人才、国家级青年人才评审专家)、国家自然科学基金通讯评审人、国家留学基金委专家、教育部科技评价与评审专家、教育部学位中心专家、国家电网有限公司项目评审专家、安徽省医疗器械审评专家
- *Frontiers in Bioengineering and Biotechnology (in Biosensors and Biomolecular Electronics)* 副主编、多个专题主编, *Frontiers in Sensors*、*当代化工研究* 等期刊编委
- *The International Workshop on Materials Science and Engineering (WMSE, IEEE RSETE 2011)*、*International Conference on Recent Advances in the Physics (ICRAP 2013)* 等多个国际会议程序委员会委员
- 担任 ELSEVIER、IEEE、Springer、瑞士 *Frontiers* 等出版社及 *传感技术学报*、*东南大学学报*、*合肥工业大学学报*、*电源学报* 等学术期刊审稿人

研究领域

- MEMS / BioMEMS / Lab on a Chip
- 微流控器件 / 生物传感器 / 生物电子学
- 嵌入式系统 / POCT 系统 / 可穿戴传感系统

科研成果

- 发表学术论文 90 余篇，代表作发表于 *Science (eletters)*、*Adv. Funct. Mater.*、*Next Mater.*、*Anal. Chem.*、*Biosens. Bioelectron.*、*IEEE Trans. Inf. Foren. Sec.* 等期刊，含多篇封面论文、Editorial、ESI 高被引论文及 SSCI 论文。
- 曾从事辐射传输和水色遥感研究，相关研究工作得到了潘德炉院士在 *中国科学*、*中国工程科学*、*Acta Oceanologica Sinica* 等期刊论文的多次引用。
- 授权多项发明专利，用于粮油危害物实时检测的传感器在中央储备粮直属库示范应用。
- 参译 *Foundation of MEMS (Chang Liu, USA, Prentice Hall, 2006)*。
- 多次在 *IEEE* 等国际会议作口头报告。近年来，为 “*World Biological Science and Technology Conference (BioST 2022, Osaka, Japan)*”、“*The Annual International Conference on Manipulation, Manufacturing and Measurement on the Nanoscale (IEEE 3M-NANO 2022, Tianjin, China)*” 等作分会场邀请报告。
- 多次在国内行业会议作邀请报告。近年来，为 “*中国微米纳米技术学会第六届、第八届青年科学家论坛 (2021、2023)*” 作邀请报告，应邀为中国微米纳米技术学会 “*第五届微米纳米技术应用创新大会 (2021)*”、“*微流控技术应用创新论坛 (2020、2022、2023)*”、“*微纳器件与系统创新论坛 (2023)*” 等会议作分会场报告。

科研项目

主持国家自然科学基金面上项目、国家重点研发计划子课题、省自然科学基金、省高校自然科学基金重点项目等课题十余项。

- 数字医学工程全国重点实验室开放课题, 2024-M04, 2024-2025 (主持)
- 传感技术国家重点实验室开放课题, SKT2206, 2023-2024 (主持)
- 国家自然科学基金面上项目, 62074047, 2021-2024 (主持)
- 国家重点研发计划子课题, 2019YFC1605302, 2019-2022 (主持)
- 安徽省自然科学基金面上项目, 1908085MF180, 2019-2022 (主持)

部分论文

1. **Zhang J.***, Qi H., Wu J.*, et al., *Analytical Chemistry* **2024**, 96, 9817-9825.
(封面论文, *Nature Index Journal*, 中科院一区 TOP, IF=7.4)
2. Xu J.* , Mao Z., Yang X., ..., **Zhang J.***, et al., *Next Materials* **2024**, 3, 100180.
(ELSEVIER 旗下 *Next* 家族旗舰新刊)
3. Cao W., Lin R., Hou X., ..., **Zhang J.***, et al., *Advanced Functional Materials* **2023**, 2301027.
(ESI 高被引论文, *Nature Index Journal*, 中科院一区 TOP, IF=19.0)
4. Huang C., Yang Z.* , Hu Z., ..., **Zhang J.***, et al., *IEEE Transactions on Information Forensics & Security* **2023**, 18, 4747-4759.
(CCF-A, CACR-A, 中科院一区 TOP, IF=6.8)

5. Qi H.#, Hu Z.#, Yang Z., **Zhang J.***, et al., *Analytical Chemistry* **2022**, 94, 2812-2819.
(封面论文, ESI 高被引论文, *Nature Index Journal*, 中科院一区 TOP, IF=7.4)
6. **Zhang J.**, Zhang Y., Wu J.*, et al., *Sensors and Actuators-B: Chemical* **2021**, 329, 129282.
(中科院一区 TOP, IF=8.4)
7. **Zhang J.**, Jiang Y., Xia X., et al., *Biosensors and Bioelectronics* **2020**, 165, 112366.
(中科院一区 TOP, IF=12.6)
8. **Zhang J.**, Fang X., Wu. J.*, et al., *Biosensors and Bioelectronics* **2020**, 150, 111879.
(中科院一区 TOP, IF=12.6)
9. Hu Z.#, **Zhang J.#**, Huang Y.*, et al., *Science* (eletter online) **2019**,
<https://www.science.org/doi/10.1126/science.365.6452.426>
10. **Zhang J.**, Oueslati R., Cheng C., et al., *Biosensors and Bioelectronics* **2018**, 112, 48-53.
(中科院一区 TOP, IF=12.6)

部分专利

- 张 鉴, 徐雪祥, 戚昊琛 等. “一种折合梁结构的 MEMS 磁场传感器及制备方法”, CN201710432516.7 (MEMS 物理传感器方向)
- 张 鉴, 童 睿, 戚昊琛. “一种汽车防撞雷达系统及采用其的多目标识别算法”, CN201510654175.9 (信号处理与信息系统方向)
- 张 鉴, 戚昊琛, 赵文辞 等. “可用于粮油危害物检测的非机械涡流增敏微纳物质探测仪”, CN202111326111.8 (微流控与 MEMS 生物传感器方向)
- 张 鉴, 戚昊琛, 杨 俊 等. “一种无接触式智能采样检测马桶装置及其控制方法”, CN202110426781.0 (医疗电子、生物医学工程与嵌入式方向)
- 张 鉴, 杨忠良, 黄陈炜 等. “一种序列生成式 DNA 隐写方法和评价方法”, CN202211308184.9 (生物电子学与信息安全方向)

人才培养

- 已指导研究生毕业 25 人(合肥工业大学), 在读 12 人。获中国研究生电子设计竞赛全国总决赛优秀指导教师。部分研究生获国家奖学金、中国研究生电子设计竞赛全国一等奖。已毕业的研究生均就职于联发科、中兴、华为、长鑫存储等知名半导体公司; 高校、政府、电信/银行系统; 成为国家工作人员; 及在 985 高校攻读博士学位。
- 获优秀指导教师(优秀本科毕业论文) 多次。所指导的多名本科毕业生赴美国、爱尔兰、新加坡等国外知名大学及清华大学、北京大学、浙江大学等国内高校攻读硕博学位。
- 指导本科生获国家级/省级大学生创新创业项目、浙江省新苗计划等十余项资助。指导本科生发表 SCI 论文多篇、授权/受理发明专利多项。多名参与课题的本科生保研至北京大学、东南大学、中国科技大学、南京大学等高校的微电子/计算机专业深造。

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Education

- PhD in Microelectronics, Southeast University, Nanjing, China, 2006
- MSE in Applied Physics, Hefei University of Technology, Hefei, China, 2003
- BEng from Hefei University of Technology, Hefei, China, 2000

Employment

- 2023.01 – present, **Visiting professor**, State Key Laboratory of Transducer Technology, Shanghai, China
- 2021.11 – present, **Professor**, Wenzhou University, Wenzhou, China
- 2016.11 – 2017.12, **Visiting scholar**, the University of Tennessee, Knoxville, TN, USA
- 2008.12 – 2021.11, **Associate professor**, Hefei University of Technology, Hefei, China
- 2006.12– 2008.12, **Assistant professor**, Hefei University of Technology, Hefei, China

Profile

Since 2003, Jian Zhang has been engaged in micro-electromechanical systems, biosensors and microfluidics for over 20 years. He is an IEEE member and a senior member of Chinese Society of Micro and Nano Technology. He is an associate editor and works as guest editors in “Frontiers in Bioengineering and Biotechnology,” and is the review editor of “Frontiers in Sensors.” He is the director of Micro/Nano Sensors and Bioelectronics Laboratory in Wenzhou University. He is also a visiting professor in State Key Laboratory of Transducer Technology. He has a number of patents, and has published more than 90 papers. His recent research has been supported by the funding of National Natural Science Foundation, National Key R&D Program of China, etc.

Funding

- Open Research Fund of State Key Laboratory (2024-M04), 2024-2025
- Open Research Fund of State Key Laboratory (SKT2206), 2023-2024
- National Natural Science Foundation of China (62074047), 2021-2024
- National Key R&D Program of China (2019YFC1605302), 2019-2022
- National Natural Science Foundation of China (61874156), 2019-2022
- Anhui Provincial Natural Science Foundation of China (1908085MF180), 2019-2022

Selected Publications

- (1) Zhang J.*, Qi H., Wu J.*, et al., *Analytical Chemistry* **2024**, 96, 9817-9825. (Front Cover)
- (2) Xu J.*, Mao Z., Yang X., ..., Zhang J.*, et al., *Next Materials* **2024**, 3, 100180.
- (3) Huang C., Yang Z.*, Hu Z., ..., Zhang J.*, et al., *IEEE Transactions on Information Forensics and Security* **2023**, 18, 4747-4759.
- (4) Cao W., Lin R., Hou X., ..., Zhang J.*, et al., *Advanced Functional Materials* **2023**, 2301027. (Highly cited paper)
- (5) Qi H.#, Xiao L.#, Wu J.*, ..., Zhang J.*, et al., *Food Chemistry* **2023**, 416, 135823.
- (6) Xu J.*, Zhang M., Cao F., ..., Zhang J.*, et al., *Journal of Power Sources* **2023**, 573, 233132.
- (7) Qi H.#, Hu Z.#, Yang Z., Zhang J.*, et al., *Analytical Chemistry* **2022**, 94, 2812-2819. (Cover, Highly cited paper)
- (8) Cao W.#, Lin R.#, Chen P., Li F., Ge B., Song D.,* Zhang J.*, et al., *ACS Applied Materials & Interfaces* **2022**, 14, 54051-54062.
- (9) Qi H., Huang X., Wu J.*, Zhang J.*, et al., *Analytica Chimica Acta* **2021**, 1183, 338991.
- (10) Zhang J., Zhang Y., Wu J.*, et al., *Sensors and Actuators-B: Chemical* **2021**, 329, 129282.
- (11) Zhang J., Fang X., Mao Y., et al., *NPJ Science of Food* **2021**, 5, 12.
- (12) Qi H., Wang B., Liang H., ..., Zhang J., *IEEE Sensors Journal* **2021**, 21, 755-764.
- (13) Zhang J., Jiang Y., Xia X., et al., *Biosensors and Bioelectronics* **2020**, 165, 112366.
- (14) Zhang J., Fang X., Wu J.*, et al., *Biosensors and Bioelectronics* **2020**, 150, 111879.
- (15) Hu Z.#, Zhang J.#, Huang Y.*, et al., *Science* (eletter) **2019**,
<https://www.science.org/doi/10.1126/science.365.6452.426>
- (16) Hu Z., Zhang J., Huang Y.*, et al., *Science* (eletter) **2019**,
<https://www.science.org/doi/10.1126/science.291.5501.39b>
- (17) Qi H., Zhao M., Liang H., ..., Zhang J.*, *Electrophoresis* **2019**, 40, 2699-2705. (Cover)
- (18) Zhang J., Oueslati R., Cheng C., et al., *Biosensors and Bioelectronics* **2018**, 112, 48-53.
- (19) Zhang J., Xu D., Tong L., et al., *Journal of Alloys and Compounds* **2018**, 734, 16-21.
- (20) Zhang J., Li Y., Xu D., et al., *Ceramics International* **2017**, 43, 5467-5470.