



## 师资队伍

教授

产业教授

副教授

讲师

实验教师

行政人员

## 副教授



**韦天香**

1989年7月生

博士, 副教授

联系方式

教育背景

研究经历

主要研究方向

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获奖情况

主持的主要科

研项目

近年来发表论文、专利及著作

授权发明专利

### 联系方式

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### 教育背景

2011.09-2016.06, 南京师范大学, 无机化学, 博士学位

2014.09-2015.10, 美国华盛顿州立大学, 分析化学, 联合培养博士生

2007.09-2011.06, 南京师范大学, 化学, 学士学位

### 研究经历

2016.08-2019.05, 南京师范大学, 环境科学, 讲师

2019.06- 至今, 南京师范大学, 环境学院, 副教授

### 主要研究方向

1. 电分析化学
2. 基于功能纳米材料的生物化学分析
3. 环境监测相关生物传感技术研究

### 主讲课程

《科技文献检索与论文写作》、《环境化学》、《现代环境分析技术》、《AutoCAD绘图设计》

### 主持的主要科研项目

1. 国家自然科学基金 (21705079) , 青年基金项目, 2018-2020, 项目负责人。
2. 江苏省自然科学基金 (BK20171033) , 青年基金项目, 2017-2020, 项目负责人。
3. 江苏省高校自然科学基金 (17KJB150026) , 面上项目, 2017-2019, 项目负责人。
4. 南京师范大学优秀高层次人才科研启动基金, 2017-2019, 项目负责人。
5. 江苏省普通高校研究生科研创新计划资助项目 (KYZZ\_0211) , 2014-2015, 项目负责人。

近年来发表论文、专利及著作

1. **Tianxiang Wei**<sup>1</sup>, Hong Xing<sup>1</sup>, Huafeng Wang, Yuluan Zhang, Junning Wang, Jian Shen\*, Zhihui Dai\*. Bovine serum albumin encapsulation of near infrared fluorescent nanoprobe with low nonspecificity and cytotoxicity for imaging of HER2-positive breast cancer cells. Talanta, 2020, 210, 120625.

2. Huan Gao, Junfang Zhang, Ying Liu, Wenwen Tu, **Tianxiang Wei**\*, Zihui Dai\*. Triple-helix molecular switch electrochemiluminescence nanoamplifier based on a S-doped Lu<sub>2</sub>O<sub>3</sub>/Ag<sub>2</sub>S pair for sensitive microRNA detection. *Analytical Chemistry*, 2019, 91, 12038–12045.

3. Xinhe Liu, Ying Liu, Junning Wang, **Tianxiang Wei**\*, Zihui Dai\*. Mild hyperthermia-enhanced enzyme-mediated tumor cell chemodynamic therapy. *ACS Applied Materials & Interfaces*, 2019, 11, 23065–23071.

4. **Tianxiang Wei**, Weiwei Zhang, Qian Tan, Xinwen Cui, Zihui Dai\*. Electrochemical assay of the alpha fetoprotein-L3 isoform ratio to improve the diagnostic accuracy of hepatocellular carcinoma. *Analytical Chemistry*, 2018, 90, 13051–13058.

5. Hong Xing, **Tianxiang Wei** \*, Xin Lin, Zihui Dai\*, Near-infrared MnCuInS/ZnS@BSA and urchin-like Au nanoparticle as a novel donor-acceptor pair for enhanced FRET biosensing. *Analytica Chimica Acta*, 2018, 1042, 71-78.

6. **Tianxiang Wei**, Tingting Dong, Hong Xing, Ying Liu, Zihui Dai\*. Cucurbituril and azide cofunctionalized graphene oxide for ultrasensitive electro-click biosensing. *Analytical Chemistry*, 2017, 89, 12237-12243.

7. **Tianxiang Wei**, Dan Du, Zhaoyin Wang, Weiwei Zhang, Yuehe Lin, Zihui Dai. Rapid and sensitive detection of microRNA via the capture of fluorescent dyes-loaded albumin nanoparticles around functionalized magnetic beads. *Biosensors & Bioelectronics*, 2017, 94, 56-62.

8. **Tianxiang Wei**, Dan Du, Mei-Jun Zhu, Yuehe Lin, Zihui Dai. An improved ultrasensitive enzyme-linked immunosorbent assay using hydrangea-like antibody-enzyme-inorganic three-in-one nanocomposites. *ACS Applied Materials & Interfaces*, 2016, 8, 6329-6335.

9. **Tianxiang Wei**, Zihui Dai, Yuehe Lin, Dan Du. Electrochemical immunoassays based on graphene: a review. *Electroanalysis*, 2016, 28, 4-12.

10. **Tianxiang Wei**, Tingting Dong, Zhaoyin Wang, Jianchun Bao, Wenwen Tu, Zihui Dai. Aggregation of individual sensing units for signal accumulation: conversion of liquid-phase colorimetric assay into enhanced surface-tethered electrochemical analysis. *Journal of the American Chemical Society*, 2015, 137, 8880-8883.

11. **Tianxiang Wei**, Yuyun Chen, Wenwen Tu, Yaqian Lan, Zihui Dai. Phosphomolybdic acid anion probe-based label-free, stable and simple electrochemical biosensing platform. *Chemical Communications*, 2014, 50, 9357-9360.

12. **Tianxiang Wei**, Wenwen Tu, Bo Zhao, Yaqian Lan, Jianchun Bao, Zihui Dai. Electrochemical monitoring of an important biomarker and target protein: VEGFR2 in cell lysates. *Scientific Reports*, 2014, 4, 3982. (IF: 4.259)

13. Suli Liu, **Tianxiang Wei**, Qian Liu, Wenwen Tu, Yaqian Lan, Min Han, Jianchun Bao, Zihui Dai. A nanoscaled Au-horseradish peroxidase composite fabricated by an interface reaction and its characterization, immobilization and biosensing. *Analytical Methods*, 2015, 7, 3466-3471.

14. Kun Wang, **Tianxiang Wei**, Wenwen Tu, Min Han, Zihui Dai. Gold-antibody nanocomposite thin film fabricated by liquid-liquid interface technique and its application for sensitive immunoassay of alpha-fetoprotein. *Analytical Methods*, 2013, 5, 1909-1914.

15. Can Zhang, **Tianxiang Wei**, Min Han, Wenwen Tu, Zihui Dai. Endonuclease cleavage combined with horseradish peroxidase-assisted signal amplification for electrochemical monitoring of DNA. *Electrochemistry Communications*, 2012, 22, 133-136.

16.Junning Wang, Mengyuan Bao, **Tianxiang Wei**, Zhaoyin Wang, Zhihui Dai\*. Bimetallic metaleorganic framework for enzyme immobilization by biomimetic mineralization: Constructing a mimic enzyme and simultaneously immobilizing natural enzymes. *Analytica Chimica Acta* 2019, DOI: 10.1016/j.aca.2019.11.039.

17.Junning Wang, Xue Yang, **Tianxiang Wei**, Jianchun Bao, Qinshu Zhu,\* Zhihui Dai\*. Fe-porphyrin-based covalent organic framework as a novel peroxidase mimic for a one-pot glucose colorimetric assay. *ACS Applied Bio Materials*, 2018, 1, 382–388.

18.Tao Jiang, Yang Song, **Tianxiang Wei**, He Li, Dan Du, Mei-Jun Zhu, Yuehe Lin. Sensitive detection of Escherichia coli O157:H7 using Pt–Au bimetal nanoparticles with peroxidase-like amplification. *Biosensors & Bioelectronics*, 2016, 77, 687-694.

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