Born on 10/02/1993, Heze, China

🏠 Illkirch-Graffenstaden, France
✉ ruifang.su.2020@gmail.com
🔗 https://www.researchgate.net/profile/Ruifang-Su

Skills

Fluorescence spectroscopy

Time-resolved spectroscopy

FRET

Nanotechnology

Nanomaterials synthesis

Nanomaterials characterization

Bioconjuagtion

Lanthanide complexes

Upconversion nanoparticles

Quantum dots

Immunoassays

Diagnostics

Nucleic acid detection

Single and multiple bio-sensing

Cell culture and imaging

Micro-injection

Fluorescence microscopy

Personality

Self-motivated

Meticulous

Cooperative

Enthusiastic

Adaptable

Languages

English

Chinese

French (A2)

Dr. Ruifang SU

Education

PhD in Chemistry (Double degree)
November 2020 to December 2023

Laboratoire COBRA, Université de Rouen Normandie

Nano-Science Center & Department of Chemistry, University of Copenhagen

Master's degree in Food Science and Engineering
September 2017 to June 2020
Department of Food Quality and Safety, Jilin University

Bachelor's degree in Food Quality and Safety (Health Inspection)
September 2013 to July 2017
Department of Food Quality and Safety, Jilin University

Selected representative publications (More publications are available on ResearchGate.)

1. Francès Soriano L, Su R, Diriwari PI , Sørensen TJ, Diaz SA, Medintz IL, and Hildebrandt N. FRET Materials for Biosensing. Invited review by Angewandte Chemie International Edition. In preparation.

2. Su R, Wu YT, Doulkeridou S, Qiu X, Sørensen TJ, Susumu K, Medintz IL, van Bergen en Henegouwen PMP, Hildebrandt N. A Nanobody-on-Quantum Dot Displacement Assay for Rapid and Sensitive Quantification of the Epidermal Growth Factor Receptor (EGFR). Angewandte Chemie International Edition. 2022, 61(33):e202207797.

3. Fu HJ, Su R, Luo L, Chen ZJ, Sørensen TJ, Hildebrandt N, Xu ZL. Rapid and wash-free time-gated FRET histamine assays using antibodies and aptamers. ACS sensors. 2022, 7(4):1113-21.

4. Li Y, Su R, Li H, Guo J, Hildebrandt N, Sun C. Fluorescent aptasensors: design strategies and applications in analyzing chemical contamination of food. Analytical Chemistry. 2021, 94(1):193-224.

5. Su R, Zheng H, Dong S, Sun R, Qiao S, Sun H, Ma X, Zhang T, Sun C. Facile detection of melamine by a FAM–aptamer–G-quadruplex construct. Analytical and bioanalytical chemistry. 2019, 411:2521-30.

6. Li Y[#], Su R[#], Xu J, Bie J, Sun R, Wang L, Liu X, Sun C. Aptamers-based sensing strategy for 17β-estradiol through fluorescence resonance energy transfer between oppositely charged CdTe quantum dots and gold nanoparticles. Journal of Nanoscience and Nanotechnology. 2018, 18(3):1517-27.

7. Sun C, Su R, Bie J, Sun H, Qiao S, Ma X, Sun R, Zhang T. Label-free fluorescent sensor based on aptamer and thiazole orange for the detection of tetracycline. Dyes and Pigments. 2018, 149:867-75.

8. Su R, Xu J, Luo Y, Li Y, Liu X, Bie J, Sun C. Highly selective and sensitive visual detection of oxytetracycline based on aptamer binding-mediated the anti-aggregation of positively charged gold nanoparticles. Materials Letters. 2016, 180:31-4.

Research projects

December 2018 to December 2019
PI of the Jilin University Innovation Research Project for Graduate Students
"Quantification of Heavy Metal Residues in Food Matrix Based on DNA-Sensitized Terbium Fluorescence and Enzyme-Assisted Signal Amplification".

April 2015 to April 2016
PI of the National College Student Science and Technology Innovation Project
"Detection of Tetracycline Antibiotics by Label-Free Fluorescent Aptamer sensors".

Honors and awards

- 2023 Best Poster Award at 11th International Conference on f Elements (ICFE-11)
- 2020 Jilin Province Outstanding Master's Thesis Award
- 2020 Outstanding Graduate Student of Jilin University
- 2018 National Scholarship for Graduate Student
- 2019, 2018, 2017 Academic Performance Award for Graduate Student
- 2018 Outstanding Graduate Student of Jilin University
- 2017 Outstanding Undergraduate of Jilin University
- 2016 National Scholarship for Undergraduate Student
- 2014, 2015 Faculty Second Prize for Excellent Undergraduate student