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Research interests

1. Food safety testing
2. Food flavor chemistry
3. Deep processing of the farm products

Representative publications

1. Comparison of flavonoids and phenylpropanoids compounds in Chinese water chestnut processed with different methods, *Food Chemistry*, 2021, 335.
2. Silver nanosol SERS quantitative analysis of ultratrace biotin coupled N-doped carbon dots catalytic amplification with affinity reaction, *Food Chemistry*, 2020, 317.
3. Simple and sensitive SERS quantitative analysis of sorbic acid in highly active gold nanosol substrate. *Sensors and Actuators B: Chemical*. 2018, 255.
4. Colorimetric determination of copper ions based on regulation of the enzyme-mimicking activity of covalent triazine frameworks *Sensors and Actuators B: Chemical*. 2017, 253.
5. SERS detection of trace nitrite ion in aqueous solution based on the nitrosation reaction of rhodamine 6G molecular probe. *Sensors and Actuators B: Chemical*. 2014, 201.
6. Isolation, characterisation, and antioxidant activities of flavonoids from chufa (*Eleocharis tuberosa*) peels. *Food Chemistry*. 2014, 164.

Representative authorized invention patent

1. An Extraction method of 5-methyl aureusidin from Chinese water chestnut peel, China, Patent for invention, Patent number: ZL201410834870.9, Date of authorization: 18/01/2017.
2. An Extraction method of aureusidin from Chinese water chestnut peel, China, Patent for invention, Patent number: ZL201410834870.9, Date of authorization: 18/01/2017.
3. An Extraction method of 6-isoamyl naringenin from Chinese water chestnut peel, China, Patent for invention, Patent number: ZL201410833072.4, Date of authorization: 17/08/2016.
4. An Extraction and separation method of betulinic acid from Chinese water chestnut peel, China, Patent for invention, Patent number: ZL201410833029.8, Date of authorization: 18/05/2016.
5. An Extraction method of 5-isoamyl aureusidin from Chinese water chestnut peel, China, Patent for invention, Patent number: ZL201410833115.9, Date of authorization: 06/07/2016.
6. An Extraction method of 6-methyl luteolin from Chinese water chestnut peel, China, Patent for invention, Patent number: ZL201410833028.3, Date of authorization: 06/07/2016.
7. An Extraction method of luteolin from Chinese water chestnut peel, China, Patent for invention, Patent number: ZL201410833075.8, Date of authorization: 21/09/2016.