Xiaodong Cao

List of Publications by Year
in descending order

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Version: 2024-02-01

33 papers	1,152 citations	471509 17 h-index	395702 33 g-index
33 all docs	33 docs citations	33 times ranked	1806 citing authors

#	Article	IF	Citations
1	Gold nanoparticle-based signal amplification for biosensing. Analytical Biochemistry, 2011, 417, 1-16.	2.4	337
2	Isolation and prebiotic activity of water-soluble polysaccharides fractions from the bamboo shoots (Phyllostachys praecox). Carbohydrate Polymers, 2016, 151, 295-304.	10.2	88
3	A label-free electrochemical DNA biosensor based on thionine functionalized reduced graphene oxide. Carbon, 2018, 129, 730-737.	10.3	60
4	Electrochemical detection of Salmonella using an invA genosensor on polypyrrole-reduced graphene oxide modified glassy carbon electrode and AuNPs-horseradish peroxidase-streptavidin as nanotag. Analytica Chimica Acta, 2019, 1074, 80-88.	5.4	55
5	Ultrasensitive electrochemical DNA sensor for virulence invA gene of Salmonella using silver nanoclusters as signal probe. Sensors and Actuators B: Chemical, 2018, 272, 53-59.	7.8	48
6	Electrochemical determination of sulfide in fruits using alizarinâ€“reduced graphene oxide nanosheets modified electrode. Food Chemistry, 2016, 194, 1224-1229.	8.2	43
7	Self-assembled glucose oxidase/graphene/gold ternary nanocomposites for direct electrochemistry and electrocatalysis. Journal of Electroanalytical Chemistry, 2013, 697, 10-14.	3.8	42
8	Low pH-shifting treatment would improve functional properties of black turtle bean (Phaseolus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46	8.2	41
9	Ultrasensitive electrochemical genosensor for detection of CaMV35S gene with Fe3O4-Au@Ag nanoprobe. Talanta, 2020, 206, 120205.	5.5	39
10	Effect of pH regulation on the components and functional properties of proteins isolated from cold-pressed rapeseed meal through alkaline extraction and acid precipitation. Food Chemistry, 2020, 327, 126998.	8.2	39
11	Electrochemical gene sensor based on a glassy carbon electrode modified with hemin-functionalized reduced graphene oxide and gold nanoparticle-immobilized probe DNA. Mikrochimica Acta, 2017, 184, 245-252.	5.0	38
12	A novel oriented antibody immobilization based voltammetric immunosensor for allergenic activity detection of lectin in kidney bean by using AuNPs-PEI-MWCNTs modified electrode. Biosensors and Bioelectronics, 2019, 143, 111607.	10.1	30
13	Low-pH induced structural changes, allergenicity and in vitro digestibility of lectin from black turtle bean (Phaseolus vulgaris L.). Food Chemistry, 2019, 283, 183-190.	8.2	26
14	Bioactivity of horseradish peroxidase entrapped in silica nanospheres. Biosensors and Bioelectronics, 2012, 35, 101-107.	10.1	24
15	Gold nanoparticle-doped three-dimensional reduced graphene hydrogel modified electrodes for amperometric determination of indole-3-acetic acid and salicylic acid. Nanoscale, 2019, 11, 10247-10256.	5.6	24
16	Calcium ion assisted fluorescence determination of microRNA-167 using carbon dotsâ€“labeled probe DNA and polydopamine-coated Fe3O4 nanoparticles. Mikrochimica Acta, 2020, 187, 212.	5.0	21
17	PEGylation may reduce allergenicity and improve gelling properties of protein isolate from black kidney bean (Phaseolus vulgaris L.). Food Bioscience, 2018, 25, 83-90.	4.4	19
18	Polydopamine functionalized nanoporous graphene foam as nanoreactor for efficient electrode-driven metabolism of steroid hormones. Biosensors and Bioelectronics, 2018, 119, 182-190.	10.1	18

#	Article	IF	Citations
19	Enzyme-based sensing of glucose using a glassy carbon electrode modified with a one-pot synthesized nanocomposite consisting of chitosan, reduced graphene oxide and gold nanoparticles. Mikrochimica Acta, 2015, 182, 1783-1789.	5.0	17
20	Electro-Oxidation and Simultaneous Determination of Indole-3-Acetic Acid and Salicylic Acid on Graphene Hydrogel Modified Electrode. Sensors, 2019, 19, 5483.	3.8	13
21	Effects of Low-pH Treatment on the Allergenicity Reduction of Black Turtle Bean (Phaseolus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 1379-1390.	5.2	13
22	Detection of Lectin Protein Allergen of Kidney Beans (Phaseolus vulgaris L.) and Desensitization Food Processing Technology. Journal of Agricultural and Food Chemistry, 2021, 69, 14723-14741.	5.2	13
23	Comparison of crude prolamins from seven kidney beans (Phaseolus vulgaris L.) based on composition, structure and functionality. Food Chemistry, 2021, 357, 129748.	8.2	13
24	Amperometric Determination of Sulfide by Glassy Carbon Electrode Modified with Hemin Functionalized Reduced Graphene Oxide. Electroanalysis, 2016, 28, 140-144.	2.9	12
25	Producing beef flavors in hydrolyzed soybean meal-based Maillard reaction products participated with beef tallow hydrolysates. Food Chemistry, 2022, 378, 132119.	8.2	12
26	Surface charge-controlled electron transfer and catalytic behavior of immobilized cytochrome P450 BM3 inside dendritic mesoporous silica nanoparticles. Analytical and Bioanalytical Chemistry, 2020, 412, 4703-4712.	3.7	11
27	An ultrasensitive biosensor for virulence ompA gene of Cronobacter sakazakii based on boron doped carbon quantum dots-AuNPs nanozyme and exonuclease III-assisted target-recycling strategy. Food Chemistry, 2022, 391, 133268.	8.2	11
28	Colorimetric biosensing of nopaline synthase terminator using Fe3O4@Au and hemin-functionalized reduced graphene oxide. Analytical Biochemistry, 2020, 602, 113798.	2.4	10
29	Combined effects of pH and thermal treatments on IgE-binding capacity and conformational structures of lectin from black kidney bean (Phaseolus vulgaris L.). Food Chemistry, 2020, 329, 127183.	8.2	10
30	Macroporous ordered silica foam for glucose oxidase immobilisation and direct electrochemical biosensing. Analytical Methods, 2014, 6, 1448.	2.7	8
31	Electro-oxidation and determination 5-hydroxymethylfurfural in food on co-electrodeposited Cu-Ni bimetallic microparticles modified copper electrode. Food Chemistry, 2022, 367, 130659.	8.2	8
32	General Preparation of Heme Protein Functional Fe₃O₄@Auâ€Nps Magnetic Nanocomposite for Sensitive Detection of Hydrogen Peroxide. Electroanalysis, 2017, 29, 765-772.	2.9	6
33	Detection of C ronobacter on glu B Gene and Differentiation of Four C ronobacter Species by Polymerase Chain Reaction-Restriction Fragment Length Polymorphism Typing. Journal of Food Safety, 2015, 35, 422-427.	2.3	3