Xiaodong Cao

List of Publications by Year
in descending order

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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	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
2	Producing beef flavors in hydrolyzed soybean meal-based Maillard reaction products participated with beef tallow hydrolysates. Food Chemistry, 2022, 378, 132119.	8.2	12
3	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
4	Effects of Low-pH Treatment on the Allergenicity Reduction of Black Turtle Bean (Phaseolus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 1379-1390.	5.2	13
5	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
6	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
7	Ultrasensitive electrochemical genosensor for detection of CaMV35S gene with Fe3O4-Au@Ag nanoprobe. Talanta, 2020, 206, 120205.	5.5	39
8	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
9	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
10	Low pH-shifting treatment would improve functional properties of black turtle bean (Phaseolus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38	8.2	41
11	Colorimetric biosensing of nopaline synthase terminator using Fe3O4@Au and hemin-functionalized reduced graphene oxide. Analytical Biochemistry, 2020, 602, 113798.	2.4	10
12	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
13	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
14	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
15	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
16	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
17	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
18	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

#	Article	IF	Citations
19	A label-free electrochemical DNA biosensor based on thionine functionalized reduced graphene oxide. Carbon, 2018, 129, 730-737.	10.3	60
20	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
21	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
22	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
23	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
24	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
25	Isolation and prebiotic activity of water-soluble polysaccharides fractions from the bamboo shoots (Phyllostachys praecox). Carbohydrate Polymers, 2016, 151, 295-304.	10.2	88
26	Amperometric Determination of Sulfide by Glassy Carbon Electrode Modified with Hemin Functionalized Reduced Graphene Oxide. Electroanalysis, 2016, 28, 140-144.	2.9	12
27	Electrochemical determination of sulfide in fruits using alizarinâ€“reduced graphene oxide nanosheets modified electrode. Food Chemistry, 2016, 194, 1224-1229.	8.2	43
28	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
29	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
30	Macroporous ordered silica foam for glucose oxidase immobilisation and direct electrochemical biosensing. Analytical Methods, 2014, 6, 1448.	2.7	8
31	Self-assembled glucose oxidase/graphene/gold ternary nanocomposites for direct electrochemistry and electrocatalysis. Journal of Electroanalytical Chemistry, 2013, 697, 10-14.	3.8	42
32	Bioactivity of horseradish peroxidase entrapped in silica nanospheres. Biosensors and Bioelectronics, 2012, 35, 101-107.	10.1	24
33	Gold nanoparticle-based signal amplification for biosensing. Analytical Biochemistry, 2011, 417, 1-16.	2.4	337