# Zhengbo Chen

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6914171/publications.pdf

Version: 2024-02-01

| | | 159525 | 233338 |
|---|---|---|---|
| 101 | 2,667 | 30 | 45 |
| papers | citations | h-index | g-index |

| | | | |
|---|---|---|---|
| 102 | 102 | 102 | 3070 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Cascade reaction system integrating nanozymes for colorimetric discrimination of organophosphorus pesticides. Sensors and Actuators B: Chemical, 2022, 350, 130810. | 4.0 | 22 |
| 2 | Construction of a colorimetric sensor array based on the coupling reaction to identify phenols. Analytical Methods, 2022, 14, 892-899. | 1.3 | 2 |
| 3 | A colorimetric sensor array for rapid discrimination of edible oil species based on a halogen ion exchange reaction between CsPbBr<sub>3</sub> and iodide. Analyst, The, 2022, 147, 404-409. | 1.7 | 3 |
| 4 | CsPbBr<sub>3</sub> and CsPbBr<sub>3</sub>/SiO<sub>2</sub> Nanocrystals as a Fluorescence Sensing Platform for High-Throughput Identification of Multiple Thiophene Sulfides. Analytical Chemistry, 2022, 94, 5946-5952. | 3.2 | 15 |
| 5 | High throughput sensing of multiple amino acids with differential pulse voltammetry measurement. Analytical Biochemistry, 2022, 647, 114684. | 1.1 | 1 |
| 6 | Colorimetric sensing strategy for detection of cysteine, phenol cysteine, and phenol based on synergistic doping of multiple heteroatomsÂinto sponge-like Fe/NPC nanozymes. Analytical and Bioanalytical Chemistry, 2022, 414, 4217-4225. | 1.9 | 5 |
| 7 | MnO2 Nanosheet-Based colorimetric sensor Array: Toward identification of organophosphorus pesticides. Microchemical Journal, 2022, 181, 107758. | 2.3 | 6 |
| 8 | Visual detection of multiple antioxidants based on three chloroauric acid/Au-Ag nanocubes. Mikrochimica Acta, 2021, 188, 122. | 2.5 | 2 |
| 9 | New application of aÂtraditional method: colorimetric sensor array for reducing sugars based on the in-situ formation of core-shell gold nanorod-coated silver nanoparticles by the traditional Tollens reaction. Mikrochimica Acta, 2021, 188, 142. | 2.5 | 8 |
| 10 | Amino Acid Detection with Bare Eyes Based on Two Different Concentrations of Iodides as Sensor Receptors. Food Analytical Methods, 2021, 14, 1927-1935. | 1.3 | 3 |
| 11 | Innovative Electrochemical Sensor Using TiO<sub>2</sub> Nanomaterials to Detect Phosphopeptides. Analytical Chemistry, 2021, 93, 10635-10643. | 3.2 | 29 |
| 12 | A rapid reduction of Au(Iâ†'0) strategy for the colorimetric detection and discrimination of proteins. Mikrochimica Acta, 2021, 188, 249. | 2.5 | 7 |
| 13 | A Dual-Channel Sensor Array: Ultraviolet Absorption and Surface Potential Measurements for Discrimination of Amino Acids Based on Gold Nanorods. ACS Sustainable Chemistry and Engineering, 2021, 9, 10963-10969. | 3.2 | 1 |
| 14 | Antioxidant Recognition by Colorimetric Sensor Array Based on Differential Etching of Gold Nanorods and Gold Nanobypyramids. ACS Applied Nano Materials, 2021, 4, 8482-8490. | 2.4 | 15 |
| 15 | Colorimetric Sensors for Alkaloids Based on the Etching of Au@MnO<sub>2</sub> Nanoparticles and MnO<sub>2</sub> Nanostars. ACS Applied Nano Materials, 2021, 4, 8465-8472. | 2.4 | 9 |
| 16 | Visual sensing of flavonoids based on varying degrees of gold nanoparticle aggregation via linear discriminant analysis. Sensors and Actuators B: Chemical, 2021, 348, 130685. | 4.0 | 4 |
| 17 | Antioxidant identification using a colorimetric sensor array based on Co-N-C nanozyme. Colloids and Surfaces B: Biointerfaces, 2021, 208, 112060. | 2.5 | 15 |
| 18 | Colorimetric determination of uric acid based on the suppression of oxidative etching of silver nanoparticles by chloroauric acid. Mikrochimica Acta, 2020, 187, 18. | 2.5 | 17 |

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|---|---|---|---|
| 19 | Gold nanoparticle-engineered electrochemical aptamer biosensor for ultrasensitive detection of thrombin. Analytical Methods, 2020, 12, 3729-3733. | 1.3 | 23 |
| 20 | Tungsten disulfide nanosheets-based colorimetric assay for glucose sensing. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 242, 118706. | 2.0 | 10 |
| 21 | Colorimetric identification of lanthanide ions based on two carboxylic acids as an artificial tongue. Analyst, The, 2020, 145, 3359-3363. | 1.7 | 3 |
| 22 | Single Atoms Anchored on Cobalt-Based Catalysts Derived from Hydrogels Containing Phthalocyanine toward the Oxygen Reduction Reaction. ACS Sustainable Chemistry and Engineering, 2020, 8, 8338-8347. | 3.2 | 21 |
| 23 | Determining Alkaline Phosphatase Based on Coreâ€“Shell Gold@silver Nanocubes by Single-Particle Dark-Field Images. ACS Sustainable Chemistry and Engineering, 2020, 8, 4555-4560. | 3.2 | 12 |
| 24 | Colorimetric discriminatory array for detection and discrimination of antioxidants based on HAuCl<sub>4</sub>/3,3â€²,5,5â€²-tetramethylbenzidine. Analyst, The, 2020, 145, 5221-5225. | 1.7 | 6 |
| 25 | Chloroauric Acid/Silver Nanoparticle Colorimetric Sensors for Antioxidant Discrimination Based on a Honeycomb Ag-Au Nanostructure. ACS Sustainable Chemistry and Engineering, 2020, 8, 3922-3928. | 3.2 | 19 |
| 26 | Colorimetric Differentiation of Flavonoids Based on Effective Reactivation of Acetylcholinesterase Induced by Different Affnities between Flavonoids and Metal Ions. Analytical Chemistry, 2020, 92, 3361-3365. | 3.2 | 30 |
| 27 | Colorimetric Differentiation of Multiple Oxidizing Anions Based on Two Coreâ€“Shell Au@Ag Nanoparticles with Different Morphologies as Array Recognition Elements. Analytical Chemistry, 2020, 92, 7123-7129. | 3.2 | 21 |
| 28 | Colorimetric sensor array for accurate detection and identification of antioxidants based on metal ions as sensor receptors. Talanta, 2020, 215, 120935. | 2.9 | 13 |
| 29 | Colorimetric adenosine assay based on the self-assembly of aptamer-functionalized gold nanorods. Mikrochimica Acta, 2019, 186, 587. | 2.5 | 4 |
| 30 | Colorimetric sensor assay for discrimination of proteins based on exonuclease I-triggered aggregation of DNA-functionalized gold nanoparticles. Analyst, The, 2019, 144, 4865-4870. | 1.7 | 14 |
| 31 | A Triple-Channel Colorimetric Sensor Array for Identification of Biothiols Based on Color RGB (Red/Green/Blue) as Signal Readout. ACS Sustainable Chemistry and Engineering, 2019, 7, 17482-17490. | 3.2 | 27 |
| 32 | Optical aptasensing of mercury(II) by using salt-induced and exonuclease I-induced gold nanoparticle aggregation under dark-field microscope observation. Mikrochimica Acta, 2019, 186, 729. | 2.5 | 6 |
| 33 | Highly sensitive colorimetric detection of glucose through glucose oxidase and Cu2+-catalyzed 3,3â€²,5,5â€²-tetramethylbenzidine oxidation. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 213, 37-41. | 2.0 | 13 |
| 34 | Colorimetric Electronic Tongue for Rapid Discrimination of Antioxidants Based on the Oxidation Etching of Nanotriangular Silver by Metal Ions. ACS Applied Materials & Interfaces, 2019, 11, 37371-37378. | 4.0 | 28 |
| 35 | A Chrono-Colorimetric Sensor Array for Differentiation of Catechins Based on Silver Nitrate-Induced Metallization of Gold Nanoparticles at Different Reaction Time Intervals. ACS Sustainable Chemistry and Engineering, 2019, 7, 17306-17312. | 3.2 | 17 |
| 36 | Heavy metal ion discrimination based on distinct interaction between single-stranded DNA and methylene blue. Analytical Methods, 2019, 11, 17-20. | 1.3 | 5 |

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|---|---|---|---|
| 37 | Ultrasensitive colorimetric detection of Hg<sup>2+</sup> ions based on enhanced catalytic performance of gold amalgam dispersed in channels of rose petals. Analyst, The, 2019, 144, 1205-1209. | 1.7 | 6 |
| 38 | Colorimetric detection of glutathione based on its inhibitory effect on the peroxidase-mimicking properties of WS2 nanosheets. Mikrochimica Acta, 2019, 186, 257. | 2.5 | 22 |
| 39 | Electronic-Tongue Colorimetric-Sensor Array for Discrimination and Quantitation of Metal Ions Based on Gold-Nanoparticle Aggregation. Analytical Chemistry, 2019, 91, 6315-6320. | 3.2 | 51 |
| 40 | Colorimetric Sensor Arrays for Antioxidant Discrimination Based on the Inhibition of the Oxidation Reaction between 3,3â€²,5,5â€²-Tetramethylbenzidine and Hydrogen Peroxides. ACS Applied Materials & Interfaces, 2019, 11, 9504-9509. | 4.0 | 53 |
| 41 | A colorimetric sensor array for detection and discrimination of antioxidants based on Ag nanoshell deposition on gold nanoparticle surfaces. Analyst, The, 2019, 144, 6276-6282. | 1.7 | 8 |
| 42 | Colorimetric determination of nine metal ions based on the de-aggregation of papain-functionalized gold nanoparticles and using three chelating agents. Mikrochimica Acta, 2019, 186, 854. | 2.5 | 5 |
| 43 | Colorimetric and dark-field microscopic determination of cadmium(II) using unmodified gold nanoparticles andÂbased on the formation of glutathione-cadmium(II) complexes. Mikrochimica Acta, 2019, 186, 37. | 2.5 | 19 |
| 44 | Fluorescent sensor array for discrimination of biothiols based on poly(thymine/cytosine)-templated copper nanoparticles. Analytica Chimica Acta, 2019, 1051, 147-152. | 2.6 | 12 |
| 45 | Colorimetric Detection of Thrombin Based on Intensity of Gold Nanoparticle Oligomers with Dark-Field Microscope. ACS Sustainable Chemistry and Engineering, 2018, 6, 6738-6745. | 3.2 | 17 |
| 46 | Target binding and DNA hybridization-induced gold nanoparticle aggregation for colorimetric detection of thrombin. Sensors and Actuators B: Chemical, 2018, 262, 733-738. | 4.0 | 37 |
| 47 | Determination of nickel(II) at nanomolar levels using iodide-responsive gold-copper nanoparticles as colorimetric probes. Mikrochimica Acta, 2018, 185, 88. | 2.5 | 4 |
| 48 | The aptamer-thrombin-aptamer sandwich complex-bridged gold nanoparticle oligomers for high-precision profiling of thrombin by dark field microscopy. Analytica Chimica Acta, 2018, 1028, 66-76. | 2.6 | 14 |
| 49 | Colorimetric detection of Hg(II) by measurement the color alterations from the â€œbeforeâ€•and â€œafterâ€• RGB images of etched triangular silver nanoplates. Mikrochimica Acta, 2018, 185, 235. | 2.5 | 23 |
| 50 | Colorimetric Sensor Array for Discrimination of Heavy Metal Ions in Aqueous Solution Based on Three Kinds of Thiols as Receptors. Analytical Chemistry, 2018, 90, 4770-4775. | 3.2 | 87 |
| 51 | Colorimetric aggregation based cadmium(II)Âassay by using triangular silver nanoplatesÂfunctionalized with 1-amino-2-naphthol-4-sulfonate. Mikrochimica Acta, 2018, 185, 6. | 2.5 | 20 |
| 52 | Cationic polymer-based plasmonic sensor array that discriminates proteins. Analyst, The, 2018, 143, 5578-5582. | 1.7 | 12 |
| 53 | Colorimetric adenosine aptasensor based on DNA cycling amplification and salt-induced aggregation of gold nanoparticles. Mikrochimica Acta, 2018, 185, 488. | 2.5 | 23 |
| 54 | Iodide-Responsive Cuâ€“Au Nanoparticle-Based Colorimetric Sensor Array for Protein Discrimination. ACS Sustainable Chemistry and Engineering, 2018, 6, 15720-15726. | 3.2 | 13 |

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|---|---|---|---|
| 55 | Colorimetric detection of L-histidine based on the target-triggered self-cleavage of swing-structured DNA duplex-induced aggregation of gold nanoparticles. Mikrochimica Acta, 2018, 185, 452. | 2.5 | 14 |
| 56 | â€œAggregation-to-Deaggregationâ€•Colorimetric Signal Amplification Strategy for Ag<sup>+</sup> Detection at the Femtomolar Level with Dark-Field Microscope Observation. Analytical Chemistry, 2018, 90, 11723-11727. | 3.2 | 47 |
| 57 | Colorimetric detection of DNA at the nanomolar level based on enzyme-induced gold nanoparticle de-aggregation. Mikrochimica Acta, 2018, 185, 301. | 2.5 | 16 |
| 58 | Colorimetric ultrasensitive detection of DNA based on the intensity of gold nanoparticles with dark-field microscopy. Analyst, The, 2018, 143, 4051-4056. | 1.7 | 12 |
| 59 | Protein Discrimination Using a Colorimetric Sensor Array Based on Gold Nanoparticle Aggregation Induced by Cationic Polymer. ACS Sustainable Chemistry and Engineering, 2018, 6, 10751-10757. | 3.2 | 26 |
| 60 | Colorimetric Detection of Hg<sup>2+</sup> Based on the Growth of Aptamerâ€Coated AuNPs: The Effect of Prolonging Aptamer Strands. Small, 2017, 13, 1603370. | 5.2 | 62 |
| 61 | Iodide-responsive Cu@Au nanoparticle-based colorimetric assay for sensitive mercury (II) detection. Sensors and Actuators B: Chemical, 2017, 252, 663-670. | 4.0 | 21 |
| 62 | Colorimetric sensor array for protein discrimination based on different DNA chain length-dependent gold nanoparticles aggregation. Biosensors and Bioelectronics, 2017, 97, 332-337. | 5.3 | 56 |
| 63 | DNA-Catalytically Active Gold Nanoparticle Conjugates-Based Colorimetric Multidimensional Sensor Array for Protein Discrimination. Analytical Chemistry, 2017, 89, 556-559. | 3.2 | 68 |
| 64 | Y-Shaped DNA Duplex Structure-Triggered Gold Nanoparticle Dimers for Ultrasensitive Colorimetric Detection of Nucleic Acid with the Dark-Field Microscope. Analytical Chemistry, 2017, 89, 12850-12856. | 3.2 | 40 |
| 65 | Core-shell Cu@Au nanoparticles as an optical probe for ultrasensitive detection of chromium(VI) via an etching effect. Mikrochimica Acta, 2017, 184, 3817-3823. | 2.5 | 16 |
| 66 | Colorimetric determination of Hg(II) based on a visually detectable signal amplification induced by a Cu@Au-Hg trimetallic amalgam with peroxidase-like activity. Mikrochimica Acta, 2017, 184, 107-115. | 2.5 | 30 |
| 67 | Core-shell Cu@Au nanoparticles-based colorimetric aptasensor for the determination of lysozyme. Talanta, 2017, 163, 132-139. | 2.9 | 27 |
| 68 | Colorimetric detection of Hg2+ based on target-mediated growth of gold nanoparticles. Sensors and Actuators B: Chemical, 2017, 241, 262-267. | 4.0 | 38 |
| 69 | Colorimetric visualization of Cu2+ based on Cu2+-catalyzed reaction and the signal amplification induced by K+-aptamer-Cu2+ complex. Sensors and Actuators B: Chemical, 2017, 241, 498-503. | 4.0 | 15 |
| 70 | Dual channel sensor for detection and discrimination of heavy metal ions based on colorimetric and fluorescence response of the AuNPs-DNA conjugates. Biosensors and Bioelectronics, 2016, 85, 414-421. | 5.3 | 111 |
| 71 | Shape transformation of Ag nanospheres to triangular Ag nanoplates: Hydrogen peroxide is a magic reagent. Integrated Ferroelectrics, 2016, 169, 22-28. | 0.3 | 9 |
| 72 | Colorimetric detection of lysozyme based on its effect on the growth of gold nanoparticles induced by the reaction of chloroauric acid and hydroxylamine. Mikrochimica Acta, 2016, 183, 3135-3141. | 2.5 | 10 |

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|---|---|---|---|
| 73 | Sensitive colorimetric detection of K(I) using catalytically active gold nanoparticles triggered signal amplification. Biosensors and Bioelectronics, 2016, 79, 749-757. | 5.3 | 23 |
| 74 | A sensitive Hg(II) colorimetric sensor based on synergistic catalytic effect of gold nanoparticles and Hg. Sensors and Actuators B: Chemical, 2016, 229, 686-691. | 4.0 | 38 |
| 75 | Silver nanoparticles with different morphologies: growth mechanism and stability. Materials Research Innovations, 2016, 20, 58-66. | 1.0 | 4 |
| 76 | Real Colorimetric Thrombin Aptasensor by Masking Surfaces of Catalytically Active Gold Nanoparticles. ACS Applied Materials & Interfaces, 2016, 8, 102-108. | 4.0 | 59 |
| 77 | Application of triangular silver nanoplates for colorimetric detection of H2O2. Sensors and Actuators B: Chemical, 2015, 220, 314-317. | 4.0 | 50 |
| 78 | Aptasensor for electrochemical sensing of angiogenin based on electrode modified by cationic polyelectrolyte-functionalized graphene/gold nanoparticles composites. Biosensors and Bioelectronics, 2015, 65, 232-237. | 5.3 | 48 |
| 79 | A non-aggregation spectrometric determination for mercury ions based on gold nanoparticles and thiocyanuric acid. Talanta, 2015, 134, 603-606. | 2.9 | 36 |
| 80 | Gold nanoparticle based colorimetric probe for dopamine detection based on the interaction between dopamine and melamine. Mikrochimica Acta, 2015, 182, 1003-1008. | 2.5 | 73 |
| 81 | Superior fluorescent probe for detection of potassium ion. Talanta, 2015, 144, 247-251. | 2.9 | 20 |
| 82 | A facile label-free colorimetric sensor for Hg2+ based on Hg-triangular silver nanoplates with amalgam-like structure. Sensors and Actuators B: Chemical, 2015, 221, 365-369. | 4.0 | 25 |
| 83 | Colorimetric Signal Amplification Assay for Mercury Ions Based on the Catalysis of Gold Amalgam. Analytical Chemistry, 2015, 87, 10963-10968. | 3.2 | 57 |
| 84 | Chitosan-functionalized gold nanoparticles for colorimetric detection of mercury ions based on chelation-induced aggregation. Mikrochimica Acta, 2015, 182, 611-616. | 2.5 | 40 |
| 85 | A highly sensitive colorimetric sensor for adrenaline detection based on organic molecules-functionalized gold nanoparticles. Sensors and Actuators B: Chemical, 2015, 207, 277-280. | 4.0 | 23 |
| 86 | A colorimetric aptamer biosensor based on cationic polymer and gold nanoparticles for the ultrasensitive detection of thrombin. Biosensors and Bioelectronics, 2014, 56, 46-50. | 5.3 | 75 |
| 87 | Nickel hydroxide nanocrystals-modified glassy carbon electrodes for sensitive l-histidine detection. Electrochimica Acta, 2014, 116, 258-262. | 2.6 | 30 |
| 88 | A simple colorimetric sensor for potassium ion based on DNA G-quadruplex conformation and salt-induced gold nanoparticles aggregation. Analytical Methods, 2014, 6, 8018-8021. | 1.3 | 26 |
| 89 | Aptasensor for label-free square-wave voltammetry detection of potassium ions based on gold nanoparticle amplification. RSC Advances, 2014, 4, 48671-48675. | 1.7 | 10 |
| 90 | Colorimetric detection of potassium ions using aptamer-functionalized gold nanoparticles. Analytica Chimica Acta, 2013, 787, 189-192. | 2.6 | 60 |

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|---|---|---|---|
| 91 | Tetrahexahedral Au nanocrystals/aptamer based ultrasensitive electrochemical biosensor. RSC Advances, 2013, 3, 14385. | 1.7 | 13 |
| 92 | A one-step electrochemical sensor for rapid detection of potassium ion based on structure-switching aptamer. Sensors and Actuators B: Chemical, 2013, 188, 1155-1157. | 4.0 | 31 |
| 93 | A reagentless signal-off architecture for electrochemical aptasensor for the detection of lysozyme. Electrochimica Acta, 2013, 111, 916-920. | 2.6 | 32 |
| 94 | Aptamer biosensor for label-free impedance spectroscopy detection of potassium ion based on DNA G-quadruplex conformation. Biosensors and Bioelectronics, 2013, 48, 108-112. | 5.3 | 65 |
| 95 | An electrochemical aptasensor based on the amplification of two kinds of gold nanocrystals for the assay of L-histidine with picomolar detection limit. Nanotechnology, 2013, 24, 295501. | 1.3 | 6 |
| 96 | Signal amplification architecture for electrochemical aptasensor based on network-like thiocyanuric acid/gold nanoparticle/ssDNA. Biosensors and Bioelectronics, 2012, 38, 37-42. | 5.3 | 22 |
| 97 | Electrochemical sensing of l-histidine based on structure-switching DNAzymes and gold nanoparticleâ€“graphenenanosheet composites. Chemical Communications, 2011, 47, 5476-5478. | 2.2 | 100 |
| 98 | Electrochemical impedance spectroscopy detection of lysozyme based on electrodeposited gold nanoparticles. Talanta, 2011, 83, 1501-1506. | 2.9 | 75 |
| 99 | Electrochemical aptasensor for detection of copper based on a reagentless signal-on architecture and amplification by gold nanoparticles. Talanta, 2011, 85, 730-735. | 2.9 | 51 |
| 100 | Aptamer biosensor for label-free square-wave voltammetry detection of angiogenin. Biosensors and Bioelectronics, 2011, 30, 261-266. | 5.3 | 39 |
| 101 | Aptamer-based electrochemical approach to the detection of thrombin by modification of gold nanoparticles. Analytical and Bioanalytical Chemistry, 2010, 398, 563-570. | 1.9 | 56 |