Ting Hou

List of Publications by Year
in descending order

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47 papers	3,042 citations	172457 29 h-index	214800 47 g-index
47 all docs	47 docs citations	47 times ranked	2907 citing authors

#	Article	IF	Citations
1	Label-Free and Enzyme-Free Homogeneous Electrochemical Biosensing Strategy Based on Hybridization Chain Reaction: A Facile, Sensitive, and Highly Specific MicroRNA Assay. Analytical Chemistry, 2015, 87, 11368-11374.	6.5	282
2	Truly Immobilization-Free Diffusivity-Mediated Photoelectrochemical Biosensing Strategy for Facile and Highly Sensitive MicroRNA Assay. Analytical Chemistry, 2018, 90, 9591-9597.	6.5	159
3	Homogeneous Electrochemical Strategy for Human Telomerase Activity Assay at Single-Cell Level Based on T7 Exonuclease-Aided Target Recycling Amplification. Analytical Chemistry, 2015, 87, 4030-4036.	6.5	158
4	Paper-based fluorescent sensor for rapid naked-eye detection of acetylcholinesterase activity and organophosphorus pesticides with high sensitivity and selectivity. Biosensors and Bioelectronics, 2016, 86, 971-977.	10.1	156
5	Integration of Biofuel Cell-Based Self-Powered Biosensing and Homogeneous Electrochemical Strategy for Ultrasensitive and Easy-To-Use Bioassays of MicroRNA. ACS Applied Materials & Interfaces, 2018, 10, 9325-9331.	8.0	113
6	Paper-based fluorescent sensor via aggregation induced emission fluorogen for facile and sensitive visual detection of hydrogen peroxide and glucose. Biosensors and Bioelectronics, 2018, 104, 152-157.	10.1	112
7	Ultrasensitive Self-Powered Aptasensor Based on Enzyme Biofuel Cell and DNA Bioconjugate: A Facile and Powerful Tool for Antibiotic Residue Detection. Analytical Chemistry, 2017, 89, 2163-2169.	6.5	107
8	Amplified Detection of T4 Polynucleotide Kinase Activity by the Coupled Î» Exonuclease Cleavage Reaction and Catalytic Assembly of Bimolecular Beacons. Analytical Chemistry, 2014, 86, 884-890.	6.5	105
9	A versatile immobilization-free photoelectrochemical biosensor for ultrasensitive detection of cancer biomarker based on enzyme-free cascaded quadratic amplification strategy. Biosensors and Bioelectronics, 2016, 77, 220-226.	10.1	105
10	Label-Free Homogeneous Electroanalytical Platform for Pesticide Detection Based on Acetylcholinesterase-Mediated DNA Conformational Switch Integrated with Rolling Circle Amplification. ACS Sensors, 2017, 2, 562-568.	7.8	104
11	Aptamer recognition-trigged label-free homogeneous electrochemical strategy for an ultrasensitive cancer-derived exosome assay. Chemical Communications, 2019, 55, 13705-13708.	4.1	102
12	Biphasic photoelectrochemical sensing strategy based on in situ formation of CdS quantum dots for highly sensitive detection of acetylcholinesterase activity and inhibition. Biosensors and Bioelectronics, 2016, 75, 359-364.	10.1	101
13	Affinity-Mediated Homogeneous Electrochemical Aptasensor on a Graphene Platform for Ultrasensitive Biomolecule Detection via Exonuclease-Assisted Target-Analog Recycling Amplification. Analytical Chemistry, 2016, 88, 2212-2219.	6.5	93
14	Label-free colorimetric assay for base excision repair enzyme activity based on nicking enzyme assisted signal amplification. Biosensors and Bioelectronics, 2014, 54, 598-602.	10.1	92
15	Amphiphile-Mediated Ultrasmall Aggregation Induced Emission Dots for Ultrasensitive Fluorescence Biosensing. Analytical Chemistry, 2017, 89, 9100-9107.	6.5	90
16	Two-Dimensional Cobalt-Doped Ti₃C₂ MXene Nanozyme-Mediated Homogeneous Electrochemical Strategy for Pesticides Assay Based on In Situ Generation of Electroactive Substances. Analytical Chemistry, 2022, 94, 3669-3676.	6.5	89
17	Enzyme-free and label-free fluorescence aptasensing strategy for highly sensitive detection of protein based on target-triggered hybridization chain reaction amplification. Biosensors and Bioelectronics, 2015, 70, 324-329.	10.1	87
18	Ultrasensitive homogeneous electrochemical strategy for DNA methyltransferase activity assay based on autonomous exonuclease III-assisted isothermal cycling signal amplification. Biosensors and Bioelectronics, 2015, 70, 304-309.	10.1	78

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19	Versatile and Programmable DNA Logic Gates on Universal and Label-Free Homogeneous Electrochemical Platform. Analytical Chemistry, 2016, 88, 9691-9698.	6.5	77
20	A highly sensitive homogeneous electrochemical assay for alkaline phosphatase activity based on single molecular beacon-initiated T7 exonuclease-mediated signal amplification. Analyst, The, 2015, 140, 4030-4036.	3.5	70
21	Enzymatic Fuel Cell-Based Self-Powered Homogeneous Immunosensing Platform via Target-Induced Glucose Release: An Appealing Alternative Strategy for Turn-On Melamine Assay. ACS Applied Materials & Interfaces, 2017, 9, 35721-35728.	8.0	67
22	Fluorescence biosensing strategy based on mercury ion-mediated DNA conformational switch and nicking enzyme-assisted cycling amplification for highly sensitive detection of carbamate pesticide. Biosensors and Bioelectronics, 2016, 77, 644-649.	10.1	59
23	Label-free fluorescence strategy for sensitive microRNA detection based on isothermal exponential amplification and graphene oxide. Talanta, 2016, 148, 116-121.	5.5	52
24	Graphene-Assisted Label-Free Homogeneous Electrochemical Biosensing Strategy based on Aptamer-Switched Bidirectional DNA Polymerization. ACS Applied Materials & Interfaces, 2015, 7, 28566-28575.	8.0	50
25	HRP-Mimicking DNAzyme-Catalyzed in Situ Generation of Polyaniline To Assist Signal Amplification for Ultrasensitive Surface Plasmon Resonance Biosensing. Analytical Chemistry, 2017, 89, 673-680.	6.5	41
26	In situ template generation of silver nanoparticles as amplification tags for ultrasensitive surface plasmon resonance biosensing of microRNA. Biosensors and Bioelectronics, 2019, 137, 82-87.	10.1	39
27	Label-free and immobilization-free photoelectrochemical biosensing strategy using methylene blue in homogeneous solution as signal probe for facile DNA methyltransferase activity assay. Biosensors and Bioelectronics, 2019, 141, 111395.	10.1	38
28	Synthesis of a three-layered SiO₂@Au nanoparticle@polyaniline nanocomposite and its application in simultaneous electrochemical detection of uric acid and ascorbic acid. Journal of Materials Chemistry B, 2016, 4, 2314-2321.	5.8	35
29	Self-Powered Biosensing Platform Based on â€œSignal-Onâ€•Enzymatic Biofuel Cell for DNA Methyltransferase Activity Analysis and Inhibitor Screening. Analytical Chemistry, 2020, 92, 5426-5430.	6.5	32
30	Homogeneous photoelectrochemical biosensing <i>via</i> synergy of G-quadruplex/hemin catalysed reactions and the inner filter effect. Chemical Communications, 2020, 56, 1811-1814.	4.1	31
31	A versatile label-free and signal-on electrochemical biosensing platform based on triplex-forming oligonucleotide probe. Analytica Chimica Acta, 2015, 890, 91-97.	5.4	30
32	Sensitive electrochemical assay for T4 polynucleotide kinase activity based on dual-signaling amplification coupled with exonuclease reaction. Sensors and Actuators B: Chemical, 2014, 202, 588-593.	7.8	29
33	Exonuclease I-aided homogeneous electrochemical strategy for organophosphorus pesticide detection based on enzyme inhibition integrated with a DNA conformational switch. Analyst, The, 2016, 141, 1830-1836.	3.5	29
34	A label-free and colorimetric turn-on assay for coralyne based on coralyne-induced formation of peroxidase-mimicking split DNAzyme. Analyst, The, 2013, 138, 4728.	3.5	24
35	A label-free visual platform for self-correcting logic gate construction and sensitive biosensing based on enzyme-mimetic coordination polymer nanoparticles. Journal of Materials Chemistry B, 2017, 5, 4607-4613.	5.8	24
36	A facile, sensitive, and highly specific trinitrophenol assay based on target-induced synergetic effects of acid induction and electron transfer towards DNA-templated copper nanoclusters. Talanta, 2016, 160, 475-480.	5.5	22

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37	Selective synthesis and capacitive characteristics of CoNiAl three-component layered double hydroxide platelets. RSC Advances, 2013, 3, 19807.	3.6	20
38	DNAzyme-guided polymerization of aniline for ultrasensitive electrochemical detection of nucleic acid with bio-bar codes-initiated rolling circle amplification. Sensors and Actuators B: Chemical, 2014, 190, 384-388.	7.8	19
39	Laser-Induced N- and B-Codoped Graphene Nanozymes with Intrinsic Peroxidase-Like Activities for Bactericidal Application. ACS Sustainable Chemistry and Engineering, 2022, 10, 2750-2760.	6.7	18
40	A label-free photoelectrochemical aptasensor for facile and ultrasensitive mercury ion assay based on a solution-phase photoactive probe and exonuclease III-assisted amplification. Analyst, The, 2019, 144, 3800-3806.	3.5	17
41	Label-free colorimetric detection of coralyne utilizing peroxidase-like split G-quadruplex DNAzyme. Analytical Methods, 2013, 5, 4671.	2.7	16
42	Selective and colorimetric detection of pyruvic acid using conformational switch of i-motif DNA and unmodified gold nanoparticles. Analytical Methods, 2014, 6, 1645.	2.7	14
43	A versatile and highly sensitive homogeneous electrochemical strategy based on the split aptamer binding-induced DNA three-way junction and exonuclease III-assisted target recycling. Analyst, The, 2015, 140, 5748-5753.	3.5	14
44	Sensitive detection of T4 polynucleotide kinase activity based on coupled exonuclease reaction and nicking enzyme-assisted fluorescence signal amplification. Analytical and Bioanalytical Chemistry, 2014, 406, 2943-2948.	3.7	13
45	Unique quenching of fluorescent copper nanoclusters based on target-induced oxidation effect: a simple, label-free, highly sensitive and specific bleomycin assay. RSC Advances, 2016, 6, 76679-76683.	3.6	12
46	A dual-amplification label-free ratiometric fluorescent sensor for accurate monitoring of telomerase activity based on unique intercalation characteristics of dyes toward different DNA structures. Sensors and Actuators B: Chemical, 2022, 356, 131362.	7.8	10
47	Portable multi-amplified temperature sensing for tumor exosomes based on MnO2/IR780 nanozyme with high photothermal effect and oxidase-like activity. Chinese Chemical Letters, 2023, 34, 107607.	9.0	7