

Hong Zhou

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

2,274
citations

186265

28
h-index

223800

46
g-index

65
all docs

65
docs citations

65
times ranked

2224
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical nano-biosensing interface <i>via</i> nucleic acid amplification strategy: construction and application. <i>Chemical Society Reviews</i> , 2018, 47, 1996-2019.	38.1	139
2	Efficient Enhancement of Electrochemiluminescence from Cadmium Sulfide Quantum Dots by Glucose Oxidase Mimicking Gold Nanoparticles for Highly Sensitive Assay of Methyltransferase Activity. <i>Analytical Chemistry</i> , 2016, 88, 2976-2983.	6.5	118
3	Quantum dot-based photoelectric conversion for biosensing applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 67, 56-73.	11.4	114
4	Dual-Mode SERS and Electrochemical Detection of miRNA Based on Popcorn-like Gold Nanofilms and Toehold-Mediated Strand Displacement Amplification Reaction. <i>Analytical Chemistry</i> , 2021, 93, 6120-6127.	6.5	98
5	Ultrasensitive DNA detection based on Au nanoparticles and isothermal circular double-assisted electrochemiluminescence signal amplification. <i>Chemical Communications</i> , 2011, 47, 8358.	4.1	89
6	Electrochemiluminescence Resonance Energy Transfer Between CdS:Eu Nanocrystals and Au Nanorods for Sensitive DNA Detection. <i>Journal of Physical Chemistry C</i> , 2012, 116, 17773-17780.	3.1	85
7	DNAzyme Based Nanomachine for <i>in Situ</i> Detection of MicroRNA in Living Cells. <i>ACS Sensors</i> , 2017, 2, 1847-1853.	7.8	77
8	A dual-functional electrochemical biosensor for the detection of prostate specific antigen and telomerase activity. <i>Chemical Communications</i> , 2013, 49, 6602.	4.1	69
9	Highly Sensitive Electrochemiluminescence Detection of Single-Nucleotide Polymorphisms Based on Isothermal Cycle-Assisted Triple-Stem Probe with Dual-Nanoparticle Label. <i>Analytical Chemistry</i> , 2011, 83, 8320-8328.	6.5	68
10	Efficient quenching of electrochemiluminescence from K-doped graphene@CdS:Eu NCs by G-quadruplex-hemin and target recycling-assisted amplification for ultrasensitive DNA biosensing. <i>Chemical Communications</i> , 2013, 49, 2246.	4.1	68
11	Recent advances in electrochemiluminescence resonance energy transfer for bioanalysis: Fundamentals and applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 122, 115746.	11.4	65
12	Soft Nanoarchitectonics for Enantioselective Biosensing. <i>Accounts of Chemical Research</i> , 2020, 53, 644-653.	15.6	65
13	A novel synergistic enhanced chemiluminescence achieved by a multiplex nanoprobe for biological applications combined with dual-amplification of magnetic nanoparticles. <i>Chemical Science</i> , 2010, 1, 681.	7.4	64
14	Recent advances of ratiometric electrochemiluminescence biosensors. <i>Journal of Materials Chemistry B</i> , 2019, 7, 6469-6475.	5.8	64
15	Many Birds, One Stone: A Smart Nanodevice for Ratiometric Dual-Spectrum Assay of Intracellular MicroRNA and Multimodal Synergetic Cancer Therapy. <i>ACS Nano</i> , 2021, 15, 6961-6976.	14.6	64
16	In Situ Activation of CdS Electrochemiluminescence Film and Its Application in H ₂ S Detection. <i>Analytical Chemistry</i> , 2014, 86, 8657-8664.	6.5	63
17	Integration of intracellular telomerase monitoring by electrochemiluminescence technology and targeted cancer therapy by reactive oxygen species. <i>Chemical Science</i> , 2017, 8, 8025-8029.	7.4	54
18	Versatile photoelectrochemical and electrochemiluminescence biosensor based on 3D CdSe QDs-DNA nanonetwork-SnO ₂ nanoflower coupled with DNA walker amplification for HIV detection. <i>Biosensors and Bioelectronics</i> , 2021, 191, 113455.	10.1	49

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19	An effective DNA-based electrochemical switch for reagentless detection of living cells. <i>Chemical Communications</i> , 2011, 47, 4388.	4.1	45
20	Enhanced Peroxidase-Like Properties of Graphene-Hemin Composite Decorated with Au Nanoflowers as Electrochemical Aptamer Biosensor for the Detection of K562 Leukemia Cancer Cells. <i>Chemistry - A European Journal</i> , 2016, 22, 18001-18008.	3.3	42
21	Bio-bar-code functionalized magnetic nanoparticle label for ultrasensitive flow injection chemiluminescence detection of DNA hybridization. <i>Chemical Communications</i> , 2009, , 5567.	4.1	41
22	Amplified electrochemiluminescence detection of DNA-binding protein based on the synergy effect of electron and energy transfer between CdS nanocrystals and gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2013, 41, 615-620.	10.1	41
23	Flexible Gold Electrode Array for Multiplexed Immunochemical Measurement of Three Protein Biomarkers for Prostate Cancer. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 20137-20143.	8.0	41
24	Versatile Photoelectrochemical Biosensing for Hg ²⁺ and Aflatoxin B1 Based on Enhanced Photocurrent of AgInS ₂ Quantum Dot-DNA Nanowires Sensitizing NPC-ZnO Nanopolyhedra. <i>Analytical Chemistry</i> , 2022, 94, 5814-5822.	6.5	41
25	Multifunctional Hydrogel Hybrid-Gated Organic Photoelectrochemical Transistor for Biosensing. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	40
26	Regulating Light-Sensitive Gate of Organic Photoelectrochemical Transistor toward Sensitive Biodetection at Zero Gate Bias. <i>Small Structures</i> , 2021, 2, 2100087.	12.0	38
27	Switchable "on-off-on" electrochemical technique for direct detection of survivin mRNA in living cells. <i>Analyst</i> , The, 2012, 137, 3940.	3.5	30
28	Enhanced Iridium Complex Electrochemiluminescence Cytosensing and Dynamic Evaluation of Cell-Surface Carbohydrate Expression. <i>Chemistry - A European Journal</i> , 2014, 20, 14736-14743.	3.3	30
29	Efficient double-quenching of electrochemiluminescence from CdS:Eu QDs by hemin-graphene-Au nanorods ternary composite for ultrasensitive immunoassay. <i>Scientific Reports</i> , 2016, 6, 30577.	3.3	29
30	DNA-hybrid-gated functional mesoporous silica for sensitive DNA methyltransferase SERS detection. <i>Chemical Communications</i> , 2015, 51, 13983-13985.	4.1	28
31	A Ternary Composite Based on Graphene, Hemin, and Gold Nanorods with High Catalytic Activity for the Detection of Cell-Surface Glycan Expression. <i>Chemistry - A European Journal</i> , 2015, 21, 1908-1914.	3.3	27
32	Enhanced electrochemiluminescence ratiometric cytosensing based on surface plasmon resonance of Au nanoparticles and nanosucculent films. <i>Biosensors and Bioelectronics</i> , 2021, 189, 113367.	10.1	26
33	L-cysteine-modified chiral gold nanoparticles promote periodontal tissue regeneration. <i>Bioactive Materials</i> , 2021, 6, 3288-3299.	15.6	25
34	Hybridization chain reaction for regulating surface capacitance of organic photoelectrochemical transistor toward sensitive miRNA detection. <i>Biosensors and Bioelectronics</i> , 2022, 209, 114224.	10.1	23
35	Photocontrolled Nanopipette Biosensor for ATP Gradient Electroanalysis of Single Living Cells. <i>ACS Sensors</i> , 2021, 6, 1529-1535.	7.8	22
36	Direct Observation of Amide Bond Formation in a Plasmonic Nanocavity Triggered by Single Nanoparticle Collisions. <i>Journal of the American Chemical Society</i> , 2021, 143, 9781-9790.	13.7	22

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37	Amplified fluorescence detection of serum prostate specific antigen based on metal-dependent DNAzyme assistant nanomachine. <i>Analytica Chimica Acta</i> , 2018, 1008, 96-102.	5.4	20
38	Nanogold Flower-Inspired Nanoarchitectonics Enables Enhanced Light-to-Heat Conversion Ability for Rapid and Targeted Chemophotothermal Therapy of a Tumor. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801300.	7.6	20
39	Novel graphene/Au-CdS:Eu composite-based electrochemiluminescence immunosensor for cancer biomarker detection by coupling resonance energy transfer and enzyme catalytic reaction. <i>Journal of Electroanalytical Chemistry</i> , 2016, 781, 410-417.	3.8	16
40	Advances in DNA/RNA detection using nanotechnology. <i>Advances in Clinical Chemistry</i> , 2019, 91, 31-98.	3.7	16
41	Organic photoelectrochemical transistor detection of tear lysozyme. <i>Sensors & Diagnostics</i> , 2022, 1, 294-300.	3.8	16
42	Visual Detection of Cucumber Green Mottle Mosaic Virus Based on Terminal Deoxynucleotidyl Transferase Coupled with DNAzymes Amplification. <i>Sensors</i> , 2019, 19, 1298.	3.8	14
43	Biodegradable MnO ₂ nanosheet based DNAzyme-recycling amplification towards: Sensitive detection of intracellular MicroRNAs. <i>Talanta</i> , 2020, 206, 120199.	5.5	13
44	Dual-biomarker-based logic-controlled electrochemical diagnosis for prostate cancers. <i>Electrochemistry Communications</i> , 2013, 32, 27-30.	4.7	12
45	Electrocatalytic reduction of a coreactant using a hemin-graphene-Au nanoparticle ternary composite for sensitive electrochemiluminescence cytosensing. <i>RSC Advances</i> , 2016, 6, 26203-26209.	3.6	12
46	T4 DNA polymerase-assisted upgrade of a nicking/polymerization amplification strategy for ultrasensitive electrochemical detection of Watermelon mosaic virus. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 2915-2924.	3.7	12
47	Electrochemical selective detection of carnitine enantiomers coupling copper ion dependent DNAzyme with DNA assistant hybridization chain reaction. <i>Journal of Electroanalytical Chemistry</i> , 2019, 837, 137-142.	3.8	12
48	Electrochemical detection of DNA by formation of efficient electron transfer pathways through adsorbing gold nanoparticles to DNA modified electrodes. <i>Microchemical Journal</i> , 2021, 169, 106581.	4.5	12
49	Nucleic acid isothermal amplification-based soft nanoarchitectonics as an emerging electrochemical biosensing platform. <i>Nanoscale</i> , 2022, 14, 10286-10298.	5.6	11
50	A general scattering proximity immunoassay with the formation of dimer of gold nanoparticle. <i>Talanta</i> , 2021, 233, 122515.	5.5	10
51	Self-Assembly of Multifunctional DNA Nanohydrogels with Tumor Microenvironment-Responsive Cascade Reactions for Cooperative Cancer Therapy. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 5165-5174.	5.2	10
52	Human serum biomarker detection based on a cascade signal amplification strategy by a DNA molecule machine. <i>Chemical Communications</i> , 2015, 51, 10843-10846.	4.1	9
53	Controlling surface nanoarchitectures of DNA modified electrodes for improved label-free electrochemical detection of p53 gene. <i>Journal of Electroanalytical Chemistry</i> , 2021, 895, 115419.	3.8	7
54	Proximity binding induced nucleic acid cascade amplification strategy for ultrasensitive homogeneous detection of PSA. <i>Analytica Chimica Acta</i> , 2021, 1186, 339123.	5.4	7

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55	Viral cDNA-based extension for highly sensitive fluorescence detection of DNA methyltransferase activity. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 3488-3494.	7.8	6
56	Aptamer Conformation Switching-Induced Two-Stage Amplification for Fluorescent Detection of Proteins. <i>Sensors</i> , 2019, 19, 77.	3.8	6
57	Assembled molecular beacon-based self-propelled DNA machine for enzyme-free and distinctly amplified nucleic acid detection. <i>Sensors and Actuators B: Chemical</i> , 2021, 339, 129877.	7.8	6
58	Light-Fueled Organic Photoelectrochemical Transistor for Probing Membrane Protein in an H-Cell. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	6
59	Enhanced Peroxidase-Like Properties of Graphene-Hemin-Composite Decorated with Au Nanoflowers as Electrochemical Aptamer Biosensor for the Detection of K562 Leukemia Cancer Cells. <i>Chemistry - A European Journal</i> , 2016, 22, 17873-17873.	3.3	5
60	Electrochemical monitoring of single nucleotide polymorphisms of rice varieties related to blast resistance based on PCR product and T4 DNA polymerase. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 649-655.	7.8	5
61	Peptide-Based Biosensing of Redox-Active Protein-Heme Complexes Indicates Novel Mechanism for Tumor Survival under Oxidative Stress. <i>ACS Sensors</i> , 2019, 4, 2671-2678.	7.8	5
62	Nucleic Acid Amplification Strategies for Biosensing, Bioimaging, and Biomedicine. , 2019, , 3-14.		1
63	Chemo-Photothermal Therapy: Nanogold Flower-Inspired Nanoarchitectonics Enables Enhanced Light-to-Heat Conversion Ability for Rapid and Targeted Chemo-Photothermal Therapy of a Tumor (Adv.) <i>Tj ETQq1 1 0.784314 rg</i>		
64	Frontispiece: A Ternary Composite Based on Graphene, Hemin, and Gold Nanorods with High Catalytic Activity for the Detection of Cell-Surface Glycan Expression. <i>Chemistry - A European Journal</i> , 2015, 21, n/a-n/a.	3.3	0