

Yan Huang

List of Publications by Year in descending order

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Version: 2024-02-01

113
papers

11,339
citations

38660

50
h-index

28224

105
g-index

116
all docs

116
docs citations

116
times ranked

13854
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of the DNA-based biosensors for high performance in detection of molecular biomarkers: More rapid, sensitive, and universal. <i>Biosensors and Bioelectronics</i> , 2022, 197, 113739.	5.3	32
2	PAM-less conditional DNA substrates leverage trans-cleavage of CRISPR-Cas12a for versatile live-cell biosensing. <i>Chemical Science</i> , 2022, 13, 2011-2020.	3.7	35
3	Chemical-biological approaches for the direct regulation of cell-cell aggregation. <i>Aggregate</i> , 2022, 3, .	5.2	6
4	DNA nanostructure-based nucleic acid probes: construction and biological applications. <i>Chemical Science</i> , 2021, 12, 7602-7622.	3.7	74
5	A de novo strategy to develop NIR precipitating fluorochrome for long-term in situ cell membrane bioimaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	44
6	Ultrasensitive ratiometric detection of Pb ²⁺ using DNA tetrahedron-mediated hyperbranched hybridization chain reaction. <i>Analytica Chimica Acta</i> , 2021, 1147, 170-177.	2.6	21
7	Photothermally Activated Coacervate Model Protocells as Signal Transducers Endow Mammalian Cells with Light Sensitivity. <i>Advanced Biology</i> , 2021, 5, e2100695.	1.4	1
8	Integration of FRET and sequencing to engineer kinase biosensors from mammalian cell libraries. <i>Nature Communications</i> , 2021, 12, 5031.	5.8	10
9	Near-infrared light-controllable MXene hydrogel for tunable on-demand release of therapeutic proteins. <i>Acta Biomaterialia</i> , 2021, 130, 138-148.	4.1	36
10	Amplified and label-free electrochemical detection of a protease biomarker by integrating proteolysis-triggered transcription. <i>Biosensors and Bioelectronics</i> , 2021, 190, 113372.	5.3	6
11	Biomineralization synthesis of a near-infrared fluorescent nanoprobe for direct glucose sensing in whole blood. <i>Nanoscale</i> , 2020, 12, 864-870.	2.8	15
12	Design strategies for fluorescent proteins/mimics and their applications in biosensing and bioimaging. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 122, 115757.	5.8	18
13	Live-Cell Imaging of Neurotransmitter Release with a Cell-Surface-Anchored DNA-Nanoprism Fluorescent Sensor. <i>Analytical Chemistry</i> , 2020, 92, 15194-15201.	3.2	23
14	Dual-Product Synergistically Enhanced Colorimetric Assay for Sensitive Detection of Lipid Transferase Activity. <i>Analytical Chemistry</i> , 2020, 92, 15236-15243.	3.2	4
15	Fluorometric and Colorimetric Dual-Readout Assay for Histone Demethylase Activity Based on Formaldehyde Inhibition of Ag ⁺ -Triggered Oxidation of <i>O</i> -Phenylenediamine. <i>Analytical Chemistry</i> , 2020, 92, 9421-9428.	3.2	27
16	Chimeric Peptides Self-Assembling on Titanium Carbide MXenes as Biosensing Interfaces for Activity Assay of Post-translational Modification Enzymes. <i>Analytical Chemistry</i> , 2020, 92, 8819-8826.	3.2	23
17	Target-activated transcription for the amplified sensing of protease biomarkers. <i>Chemical Science</i> , 2020, 11, 2993-2998.	3.7	16
18	Protein@Inorganic Nanodumpling System for High-Loading Protein Delivery with Activatable Fluorescence and Magnetic Resonance Bimodal Imaging Capabilities. <i>ACS Nano</i> , 2020, 14, 2172-2182.	7.3	37

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19	Enzyme-activated anchoring of peptide probes onto plasma membranes for selectively lighting up target cells. <i>Analyst, The</i> , 2020, 145, 3626-3633.	1.7	0
20	Click-Type Protein-DNA Conjugation for Mn ²⁺ Imaging in Living Cells. <i>Analytical Chemistry</i> , 2019, 91, 10180-10187.	3.2	7
21	A semisynthetic fluorescent protein assembly-based FRET probe for real-time profiling of cell membrane protease functions <i>in situ</i> . <i>Chemical Communications</i> , 2019, 55, 2218-2221.	2.2	13
22	Functional Titanium Carbide MXenes-Loaded Entropy-Driven RNA Explorer for Long Noncoding RNA PCA3 Imaging in Live Cells. <i>Analytical Chemistry</i> , 2019, 91, 8622-8629.	3.2	37
23	Engineering of Nucleic Acids and Synthetic Cofactors as Holo Sensors for Probing Signaling Molecules in the Cellular Membrane Microenvironment. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6590-6594.	7.2	76
24	Engineering of Nucleic Acids and Synthetic Cofactors as Holo Sensors for Probing Signaling Molecules in the Cellular Membrane Microenvironment. <i>Angewandte Chemie</i> , 2019, 131, 6662-6666.	1.6	12
25	Chimeric DNA-Functionalized Titanium Carbide MXenes for Simultaneous Mapping of Dual Cancer Biomarkers in Living Cells. <i>Analytical Chemistry</i> , 2019, 91, 1651-1658.	3.2	67
26	Boron Element Nanowires Electrode for Supercapacitors. <i>Advanced Energy Materials</i> , 2018, 8, 1703117.	10.2	81
27	Simultaneous Monitoring of Cell-surface Receptor and Tumor-targeted Photodynamic Therapy via TdT-initiated Poly-G-Quadruplexes. <i>Scientific Reports</i> , 2018, 8, 5551.	1.6	14
28	Transpeptidation-Mediated Assembly of Tripartite Split Green Fluorescent Protein for Label-Free Assay of Sortase Activity. <i>Analytical Chemistry</i> , 2018, 90, 3245-3252.	3.2	23
29	An extremely safe and wearable solid-state zinc ion battery based on a hierarchical structured polymer electrolyte. <i>Energy and Environmental Science</i> , 2018, 11, 941-951.	15.6	731
30	Fluorescent Ti ₃ C ₂ MXene quantum dots for an alkaline phosphatase assay and embryonic stem cell identification based on the inner filter effect. <i>Nanoscale</i> , 2018, 10, 19579-19585.	2.8	104
31	Cell-Surface-Anchored Ratiometric DNA Tweezer for Real-Time Monitoring of Extracellular and Apoplastic pH. <i>Analytical Chemistry</i> , 2018, 90, 13459-13466.	3.2	70
32	Electrostatic Force Triggering Elastic Condensation of Double-Stranded DNA for High-Performance One-Step Immunoassay. <i>Analytical Chemistry</i> , 2018, 90, 11446-11452.	3.2	12
33	Phospholipid-Tailored Titanium Carbide Nanosheets as a Novel Fluorescent Nanoprobe for Activity Assay and Imaging of Phospholipase D. <i>Analytical Chemistry</i> , 2018, 90, 6742-6748.	3.2	52
34	An enzymatic polymerization-activated silver nanocluster probe for <i>in situ</i> apoptosis assay. <i>Analyst, The</i> , 2018, 143, 2908-2914.	1.7	7
35	Charge designable and tunable GFP as a target pH-responsive carrier for intracellular functional protein delivery and tracing. <i>Chemical Communications</i> , 2018, 54, 7806-7809.	2.2	14
36	Enzyme-Activated G-Quadruplex Synthesis for <i>in Situ</i> Label-Free Detection and Bioimaging of Cell Apoptosis. <i>Analytical Chemistry</i> , 2017, 89, 1892-1899.	3.2	38

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37	A Highly Durable, Transferable, and Substrateâ€Versatile Highâ€Performance Allâ€Polymer Microâ€Supercapacitor with Plugâ€andâ€Play Function. <i>Advanced Materials</i> , 2017, 29, 1605137.	11.1	160
38	Photoluminescent Ti ₃ C ₂ MXene Quantum Dots for Multicolor Cellular Imaging. <i>Advanced Materials</i> , 2017, 29, 1604847.	11.1	692
39	An Intrinsically Stretchable and Compressible Supercapacitor Containing a Polyacrylamide Hydrogel Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9141-9145.	7.2	458
40	An Intrinsically Stretchable and Compressible Supercapacitor Containing a Polyacrylamide Hydrogel Electrolyte. <i>Angewandte Chemie</i> , 2017, 129, 9269-9273.	1.6	58
41	Component Matters: Paving the Roadmap toward Enhanced Electrocatalytic Performance of Graphitic C ₃ N ₄ -Based Catalysts <i>via</i> Atomic Tuning. <i>ACS Nano</i> , 2017, 11, 6004-6014.	7.3	144
42	Development of near-infrared ratiometric fluorescent probe based on cationic conjugated polymer and CdTe/CdS QDs for label-free determination of glucose in human body fluids. <i>Biosensors and Bioelectronics</i> , 2017, 95, 41-47.	5.3	61
43	Texturing in situ: N,S-enriched hierarchically porous carbon as a highly active reversible oxygen electrocatalyst. <i>Energy and Environmental Science</i> , 2017, 10, 742-749.	15.6	451
44	Peptide Logic Circuits Based on Chemoenzymatic Ligation for Programmable Cell Apoptosis. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14888-14892.	7.2	26
45	Surface charge tuneable fluorescent protein-based logic gates for smart delivery of nucleic acids. <i>Chemical Communications</i> , 2017, 53, 11326-11329.	2.2	10
46	Recent Progress on Flexible and Wearable Supercapacitors. <i>Small</i> , 2017, 13, 1701827.	5.2	365
47	Mn ₃ O ₄ nanoparticles on layer-structured Ti ₃ C ₂ MXene towards the oxygen reduction reaction and zincâ€air batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 20818-20823.	5.2	226
48	Weavable, Conductive Yarn-Based NiCo//Zn Textile Battery with High Energy Density and Rate Capability. <i>ACS Nano</i> , 2017, 11, 8953-8961.	7.3	310
49	Peptide Logic Circuits Based on Chemoenzymatic Ligation for Programmable Cell Apoptosis. <i>Angewandte Chemie</i> , 2017, 129, 15084-15088.	1.6	5
50	Highly Integrated Supercapacitorâ€Sensor Systems via Material and Geometry Design. <i>Small</i> , 2016, 12, 3393-3399.	5.2	78
51	Toward enhanced activity of a graphitic carbon nitride-based electrocatalyst in oxygen reduction and hydrogen evolution reactions via atomic sulfur doping. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12205-12211.	5.2	112
52	Capacitance Enhancement in a Semiconductor Nanostructureâ€Based Supercapacitor by Solar Light and a Selfâ€Powered Supercapacitorâ€Photodetector System. <i>Advanced Functional Materials</i> , 2016, 26, 4481-4490.	7.8	133
53	Sensitive detection of DNA methyltransferase activity based on supercharged fluorescent protein and template-free DNA polymerization. <i>Science China Chemistry</i> , 2016, 59, 809-815.	4.2	5
54	Nanostructured Polypyrrole as a flexible electrode material of supercapacitor. <i>Nano Energy</i> , 2016, 22, 422-438.	8.2	629

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55	Highly Flexible, Freestanding Supercapacitor Electrode with Enhanced Performance Obtained by Hybridizing Polypyrrole Chains with MXene. <i>Advanced Energy Materials</i> , 2016, 6, 1600969.	10.2	580
56	Label-free fluorescent enzymatic assay of citrate synthase by CoA@Au(I) co-ordination polymer and its application in a multi-enzyme logic gate cascade. <i>Biosensors and Bioelectronics</i> , 2016, 86, 1038-1046.	5.3	8
57	A high performance fiber-shaped PEDOT@MnO ₂ /C@Fe ₃ O ₄ asymmetric supercapacitor for wearable electronics. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14877-14883.	5.2	118
58	Polyurethane/Cotton/Carbon Nanotubes Core-Spun Yarn as High Reliability Stretchable Strain Sensor for Human Motion Detection. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 24837-24843.	4.0	251
59	Hydrothermal synthesis of blue-fluorescent monolayer BN and BCNO quantum dots for bio-imaging probes. <i>RSC Advances</i> , 2016, 6, 79090-79094.	1.7	66
60	Self-Assembled DNA Hydrogel Based on Enzymatically Polymerized DNA for Protein Encapsulation and Enzyme/DNAzyme Hybrid Cascade Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 22801-22807.	4.0	77
61	Multifunctional Energy Storage and Conversion Devices. <i>Advanced Materials</i> , 2016, 28, 8344-8364.	11.1	420
62	Multifunctional Gold Nanoclusters-Based Nanosurface Energy Transfer Probe for Real-Time Monitoring of Cell Apoptosis and Self-Evaluating of Pro-Apoptotic Theranostics. <i>Analytical Chemistry</i> , 2016, 88, 11184-11192.	3.2	45
63	Fabrication of Boron Nitride Nanosheets by Exfoliation. <i>Chemical Record</i> , 2016, 16, 1204-1215.	2.9	74
64	A shape memory supercapacitor and its application in smart energy storage textiles. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1290-1297.	5.2	134
65	A biomimetic colorimetric logic gate system based on multi-functional peptide-mediated gold nanoparticle assembly. <i>Nanoscale</i> , 2016, 8, 8591-8599.	2.8	31
66	Sensitive and versatile fluorescent enzymatic assay of nucleases and DNA methyltransferase based on a supercharged fluorescent protein. <i>RSC Advances</i> , 2016, 6, 34074-34080.	1.7	3
67	A label-free fluorescence assay for thrombin activity analysis based on fluorescent protein and gold nanoparticles. <i>Analytical Methods</i> , 2016, 8, 3691-3697.	1.3	8
68	A modularization approach for linear-shaped functional supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4580-4586.	5.2	50
69	Extremely Stable Polypyrrole Achieved via Molecular Ordering for Highly Flexible Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 2435-2440.	4.0	99
70	Magnetic-Assisted, Self-Healable, Yarn-Based Supercapacitor. <i>ACS Nano</i> , 2015, 9, 6242-6251.	7.3	291
71	Phosphorylation-Mediated Assembly of a Semisynthetic Fluorescent Protein for Label-Free Detection of Protein Kinase Activity. <i>Analytical Chemistry</i> , 2015, 87, 6311-6318.	3.2	27
72	A self-healable and highly stretchable supercapacitor based on a dual crosslinked polyelectrolyte. <i>Nature Communications</i> , 2015, 6, 10310.	5.8	634

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73	Enhanced Tolerance to Stretch-Induced Performance Degradation of Stretchable MnO ₂ -Based Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 2569-2574.	4.0	65
74	Facile synthesis of Fe ₂ O ₃ nanodisk with superior photocatalytic performance and mechanism insight. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 014801.	2.8	63
75	Resurfaced Fluorescent Protein as a Sensing Platform for Label-Free Detection of Copper(II) Ion and Acetylcholinesterase Activity. <i>Analytical Chemistry</i> , 2015, 87, 1974-1980.	3.2	102
76	A poly(ADP-ribose) polymerase-1 activity assay based on the FRET between a cationic conjugated polymer and supercharged green fluorescent protein. <i>Chemical Communications</i> , 2015, 51, 14389-14392.	2.2	29
77	DNA-mediated supercharged fluorescent protein/graphene oxide interaction for label-free fluorescence assay of base excision repair enzyme activity. <i>Chemical Communications</i> , 2015, 51, 13373-13376.	2.2	16
78	Automatic and Integrated Micro-Enzyme Assay (AI ⁴ EA) Platform for Highly Sensitive Thrombin Analysis via an Engineered Fluorescence Protein-Functionalized Monolithic Capillary Column. <i>Analytical Chemistry</i> , 2015, 87, 4552-4559.	3.2	22
79	Enzymatically generated long polyT-templated copper nanoparticles for versatile biosensing assay of DNA-related enzyme activity. <i>Analytical Methods</i> , 2015, 7, 4355-4361.	1.3	29
80	A universal platform for building molecular logic circuits based on a reconfigurable three-dimensional DNA nanostructure. <i>Chemical Science</i> , 2015, 6, 3556-3564.	3.7	61
81	Robust reduced graphene oxide paper fabricated with a household non-stick frying pan: a large-area freestanding flexible substrate for supercapacitors. <i>RSC Advances</i> , 2015, 5, 33981-33989.	1.7	43
82	From Industrially Weavable and Knittable Highly Conductive Yarns to Large Wearable Energy Storage Textiles. <i>ACS Nano</i> , 2015, 9, 4766-4775.	7.3	411
83	Unique electrocatalytic activity of a nucleic acid-mimicking coordination polymer for the sensitive detection of coenzyme A and histone acetyltransferase activity. <i>Chemical Communications</i> , 2015, 51, 17611-17614.	2.2	37
84	A dual enzymatic amplified strategy for the detection of endonuclease V activity. <i>Analytical Methods</i> , 2015, 7, 8453-8458.	1.3	4
85	Near-Infrared Dual-Emission Quantum Dots@Gold Nanoclusters Nanohybrid via Co-Template Synthesis for Ratiometric Fluorescent Detection and Bioimaging of Ascorbic Acid In Vitro and In Vivo. <i>Analytical Chemistry</i> , 2015, 87, 9998-10005.	3.2	127
86	An electrochromic supercapacitor and its hybrid derivatives: quantifiably determining their electrical energy storage by an optical measurement. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21321-21327.	5.2	124
87	Super-high rate stretchable polypyrrole-based supercapacitors with excellent cycling stability. <i>Nano Energy</i> , 2015, 11, 518-525.	8.2	248
88	An aptamer-based quartz crystal microbalance biosensor for sensitive and selective detection of leukemia cells using silver-enhanced gold nanoparticle label. <i>Talanta</i> , 2014, 126, 130-135.	2.9	108
89	Label-free fluorescence assay for thrombin based on unmodified quantum dots. <i>Biosensors and Bioelectronics</i> , 2014, 54, 42-47.	5.3	34
90	Intra-molecular G-quadruplex structure generated by DNA-templated click chemistry: a turn-on fluorescent probe for copper ions. <i>Biosensors and Bioelectronics</i> , 2014, 55, 187-194.	5.3	42

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91	A Mix-and-Read Fluorescence Strategy for the Switch-On Probing of Kinase Activity Based on an Aptameric-Peptide/Graphene-Oxide Platform. <i>Chemistry - an Asian Journal</i> , 2014, 9, 2560-2567.	1.7	5
92	Porous Fe ₃ O ₄ /carbon composite electrode material prepared from metal-organic framework template and effect of temperature on its capacitance. <i>Nano Energy</i> , 2014, 8, 133-140.	8.2	232
93	Chemical colorimetric square wave and its derived logic gates based on tunable growth of plasmonic gold nanoparticles. <i>RSC Advances</i> , 2014, 4, 18668-18675.	1.7	5
94	Randomly arrayed G-quadruplexes for label-free and real-time assay of enzyme activity. <i>Chemical Communications</i> , 2014, 50, 6875.	2.2	85
95	A Supercharged Fluorescent Protein as a Versatile Probe for Homogeneous DNA Detection and Methylation Analysis. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8358-8362.	7.2	36
96	Enhanced nonenzymatic sensing of hydrogen peroxide released from living cells based on Fe ₃ O ₄ /self-reduced graphene nanocomposites. <i>Analytical Methods</i> , 2014, 6, 6073.	1.3	43
97	A gold nanoparticles colorimetric assay for label-free detection of protein kinase activity based on phosphorylation protection against exopeptidase cleavage. <i>Biosensors and Bioelectronics</i> , 2014, 53, 295-300.	5.3	71
98	Nanomaterial-based tools for protein kinase bioanalysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 58, 40-53.	5.8	31
99	Fluorescent detection of protein kinase based on positively charged gold nanoparticles. <i>Talanta</i> , 2014, 128, 360-365.	2.9	19
100	A versatile biosensing system for DNA-related enzyme activity assay via the synthesis of silver nanoclusters using enzymatically-generated DNA as template. <i>Biosensors and Bioelectronics</i> , 2014, 61, 321-327.	5.3	56
101	A Solid-State Electrochemiluminescence Sensor for Label-Free Analysis of Leukemia Cells. <i>Electroanalysis</i> , 2013, 25, 1780-1786.	1.5	4
102	Label-free fluorescent detection of thrombin activity based on a recombinant enhanced green fluorescence protein and nickel ions immobilized nitrilotriacetic acid-coated magnetic nanoparticles. <i>Talanta</i> , 2013, 116, 468-473.	2.9	13
103	Fluorescent detection of protein kinase based on zirconium ions-immobilized magnetic nanoparticles. <i>Analytica Chimica Acta</i> , 2013, 780, 89-94.	2.6	33
104	Fluorescent detection of copper(II) based on DNA-templated click chemistry and graphene oxide. <i>Methods</i> , 2013, 64, 299-304.	1.9	19
105	A colorimetric and fluorescence sensing platform for two analytes in homogenous solution based on aptamer-modified gold nanoparticles. <i>Analytical Methods</i> , 2013, 5, 2477.	1.3	17
106	Versatile Electrochemiluminescent Biosensor for Protein-Nucleic Acid Interaction Based on the Unique Quenching Effect of Deoxyguanosine-5'-phosphate on Electrochemiluminescence of CdTe/ZnS Quantum Dots. <i>Analytical Chemistry</i> , 2013, 85, 6279-6286.	3.2	46
107	Immune-independent and label-free fluorescent assay for Cystatin C detection based on protein-stabilized Au nanoclusters. <i>Biosensors and Bioelectronics</i> , 2013, 41, 256-261.	5.3	79
108	A simple "clickable" biosensor for colorimetric detection of copper(II) ions based on unmodified gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2013, 41, 663-668.	5.3	84

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109	A novel DNA-templated click chemistry strategy for fluorescent detection of copper(II) ions. <i>Chemical Communications</i> , 2012, 48, 281-283.	2.2	51
110	Colorimetric detection of apoptosis based on caspase-3 activity assay using unmodified gold nanoparticles. <i>Chemical Communications</i> , 2012, 48, 997-999.	2.2	96
111	Simple, rapid and label-free colorimetric assay for Zn ²⁺ based on unmodified gold nanoparticles and specific Zn ²⁺ binding peptide. <i>Chemical Communications</i> , 2011, 47, 4412.	2.2	36
112	Inductance-based sensing technique for wireless, remote-query measurement in liquid media. <i>Science China Chemistry</i> , 2010, 53, 1391-1397.	4.2	3
113	Capillary electrophoresis with end-column electrochemiluminescence for the analysis of chloroquine phosphate and the study on its interaction with human serum albumin. <i>Journal of Chromatography A</i> , 2007, 1154, 373-378.	1.8	54