

Yan Huang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

114
papers

8,609
citations

46
h-index

92
g-index

116
ext. papers

10,005
ext. citations

10.1
avg, IF

6.1
L-index

#	Paper	IF	Citations
114	PAM-less conditional DNA substrates leverage trans-cleavage of CRISPR-Cas12a for versatile live-cell biosensing.. <i>Chemical Science</i> , 2022 , 13, 2011-2020	9.4	2
113	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	11.8	8
112	Photothermally Activated Coacervate Model Protocells as Signal Transducers Endow Mammalian Cells with Light Sensitivity. <i>Advanced Biology</i> , 2021 , 5, e2100695		1
111	DNA nanostructure-based nucleic acid probes: construction and biological applications. <i>Chemical Science</i> , 2021 , 12, 7602-7622	9.4	22
110	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,	11.5	8
109	Ultrasensitive ratiometric detection of Pb using DNA tetrahedron-mediated hyperbranched hybridization chain reaction. <i>Analytica Chimica Acta</i> , 2021 , 1147, 170-177	6.6	7
108	Integration of FRET and sequencing to engineer kinase biosensors from mammalian cell libraries. <i>Nature Communications</i> , 2021 , 12, 5031	17.4	2
107	Near-infrared light-controllable MXene hydrogel for tunable on-demand release of therapeutic proteins. <i>Acta Biomaterialia</i> , 2021 , 130, 138-148	10.8	2
106	Amplified and label-free electrochemical detection of a protease biomarker by integrating proteolysis-triggered transcription. <i>Biosensors and Bioelectronics</i> , 2021 , 190, 113372	11.8	3
105	Fluorometric and Colorimetric Dual-Readout Assay for Histone Demethylase Activity Based on Formaldehyde Inhibition of Ag-Triggered Oxidation of -Phenylenediamine. <i>Analytical Chemistry</i> , 2020 , 92, 9421-9428	7.8	11
104	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	7.8	10
103	Target-activated transcription for the amplified sensing of protease biomarkers. <i>Chemical Science</i> , 2020 , 11, 2993-2998	9.4	12
102	Protein@Inorganic Nanodumping System for High-Loading Protein Delivery with Activatable Fluorescence and Magnetic Resonance Bimodal Imaging Capabilities. <i>ACS Nano</i> , 2020 , 14, 2172-2182	16.7	21
101	Biomineralization synthesis of a near-infrared fluorescent nanoprobe for direct glucose sensing in whole blood. <i>Nanoscale</i> , 2020 , 12, 864-870	7.7	6
100	Design strategies for fluorescent proteins/mimics and their applications in biosensing and bioimaging. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 122, 115757	14.6	10
99	Live-Cell Imaging of Neurotransmitter Release with a Cell-Surface-Anchored DNA-Nanoprism Fluorescent Sensor. <i>Analytical Chemistry</i> , 2020 , 92, 15194-15201	7.8	12
98	Dual-Product Synergistically Enhanced Colorimetric Assay for Sensitive Detection of Lipid Transferase Activity. <i>Analytical Chemistry</i> , 2020 , 92, 15236-15243	7.8	2

97	Enzyme-activated anchoring of peptide probes onto plasma membranes for selectively lighting up target cells. <i>Analyst, The</i> , 2020 , 145, 3626-3633	5	
96	A semisynthetic fluorescent protein assembly-based FRET probe for real-time profiling of cell membrane protease functions in situ. <i>Chemical Communications</i> , 2019 , 55, 2218-2221	5.8	12
95	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	7.8	26
94	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	16.4	52
93	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	3.6	9
92	Click-Type Protein-DNA Conjugation for Mn Imaging in Living Cells. <i>Analytical Chemistry</i> , 2019 , 91, 10180-10187	7.8	17
91	Chimeric DNA-Functionalized Titanium Carbide MXenes for Simultaneous Mapping of Dual Cancer Biomarkers in Living Cells. <i>Analytical Chemistry</i> , 2019 , 91, 1651-1658	7.8	39
90	Boron Element Nanowires Electrode for Supercapacitors. <i>Advanced Energy Materials</i> , 2018 , 8, 1703117	21.8	59
89	Simultaneous Monitoring of Cell-surface Receptor and Tumor-targeted Photodynamic Therapy via TdT-initiated Poly-G-Quadruplexes. <i>Scientific Reports</i> , 2018 , 8, 5551	4.9	12
88	Transpeptidation-Mediated Assembly of Tripartite Split Green Fluorescent Protein for Label-Free Assay of Sortase Activity. <i>Analytical Chemistry</i> , 2018 , 90, 3245-3252	7.8	17
87	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	35.4	520
86	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	7.8	35
85	An enzymatic polymerization-activated silver nanocluster probe for in situ apoptosis assay. <i>Analyst, The</i> , 2018 , 143, 2908-2914	5	6
84	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	5.8	11
83	Fluorescent TiC 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	7.7	68
82	Cell-Surface-Anchored Ratiometric DNA Tweezer for Real-Time Monitoring of Extracellular and Apoptotic pH. <i>Analytical Chemistry</i> , 2018 , 90, 13459-13466	7.8	39
81	Electrostatic Force Triggering Elastic Condensation of Double-Stranded DNA for High-Performance One-Step Immunoassay. <i>Analytical Chemistry</i> , 2018 , 90, 11446-11452	7.8	9
80	Enzyme-Activated G-Quadruplex Synthesis for in Situ Label-Free Detection and Bioimaging of Cell Apoptosis. <i>Analytical Chemistry</i> , 2017 , 89, 1892-1899	7.8	26

79	A Highly Durable, Transferable, and Substrate-Versatile High-Performance All-Polymer Micro-Supercapacitor with Plug-and-Play Function. <i>Advanced Materials</i> , 2017 , 29, 1605137	24	139
78	Photoluminescent Ti C MXene Quantum Dots for Multicolor Cellular Imaging. <i>Advanced Materials</i> , 2017 , 29, 1604847	24	439
77	An Intrinsically Stretchable and Compressible Supercapacitor Containing a Polyacrylamide Hydrogel Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 9141-9145	16.4	329
76	An Intrinsically Stretchable and Compressible Supercapacitor Containing a Polyacrylamide Hydrogel Electrolyte. <i>Angewandte Chemie</i> , 2017 , 129, 9269-9273	3.6	48
75	Component Matters: Paving the Roadmap toward Enhanced Electrocatalytic Performance of Graphitic CN-Based Catalysts via Atomic Tuning. <i>ACS Nano</i> , 2017 , 11, 6004-6014	16.7	116
74	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	11.8	47
73	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	35.4	374
72	Peptide Logic Circuits Based on Chemoenzymatic Ligation for Programmable Cell Apoptosis. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14888-14892	16.4	22
71	Surface charge tuneable fluorescent protein-based logic gates for smart delivery of nucleic acids. <i>Chemical Communications</i> , 2017 , 53, 11326-11329	5.8	8
70	Recent Progress on Flexible and Wearable Supercapacitors. <i>Small</i> , 2017 , 13, 1701827	11	260
69	Mn ₃ O ₄ nanoparticles on layer-structured Ti ₃ C ₂ MXene towards the oxygen reduction reaction and zinc-air batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 20818-20823	13	166
68	Weavable, Conductive Yarn-Based NiCo//Zn Textile Battery with High Energy Density and Rate Capability. <i>ACS Nano</i> , 2017 , 11, 8953-8961	16.7	237
67	Peptide Logic Circuits Based on Chemoenzymatic Ligation for Programmable Cell Apoptosis. <i>Angewandte Chemie</i> , 2017 , 129, 15084-15088	3.6	5
66	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	13	96
65	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, 24837-43	9.5	198
64	Hydrothermal synthesis of blue-fluorescent monolayer BN and BCNO quantum dots for bio-imaging probes. <i>RSC Advances</i> , 2016 , 6, 79090-79094	3.7	51
63	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, 22801-9.5	9.5	64
62	Multifunctional Energy Storage and Conversion Devices. <i>Advanced Materials</i> , 2016 , 28, 8344-8364	24	305

61	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	7.8	34
60	Fabrication of Boron Nitride Nanosheets by Exfoliation. <i>Chemical Record</i> , 2016 , 16, 1204-15	6.6	56
59	A shape memory supercapacitor and its application in smart energy storage textiles. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1290-1297	13	111
58	A biomimetic colorimetric logic gate system based on multi-functional peptide-mediated gold nanoparticle assembly. <i>Nanoscale</i> , 2016 , 8, 8591-9	7.7	24
57	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	3.7	2
56	A label-free fluorescence assay for thrombin activity analysis based on fluorescent protein and gold nanoparticles. <i>Analytical Methods</i> , 2016 , 8, 3691-3697	3.2	4
55	A modularization approach for linear-shaped functional supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4580-4586	13	42
54	Extremely Stable Polypyrrole Achieved via Molecular Ordering for Highly Flexible Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 2435-40	9.5	82
53	Highly Integrated Supercapacitor-Sensor Systems via Material and Geometry Design. <i>Small</i> , 2016 , 12, 3393-9	11	71
52	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	13	92
51	Capacitance Enhancement in a Semiconductor Nanostructure-Based Supercapacitor by Solar Light and a Self-Powered Supercapacitor-Photodetector System. <i>Advanced Functional Materials</i> , 2016 , 26, 4481-4490	15.6	105
50	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	7.9	5
49	Nanostructured Polypyrrole as a flexible electrode material of supercapacitor. <i>Nano Energy</i> , 2016 , 22, 422-438	17.1	447
48	Highly Flexible, Freestanding Supercapacitor Electrode with Enhanced Performance Obtained by Hybridizing Polypyrrole Chains with MXene. <i>Advanced Energy Materials</i> , 2016 , 6, 1600969	21.8	439
47	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	11.8	5
46	Resurfaced fluorescent protein as a sensing platform for label-free detection of copper(II) ion and acetylcholinesterase activity. <i>Analytical Chemistry</i> , 2015 , 87, 1974-80	7.8	87
45	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, 14389-92	5.8	22
44	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, 13373-6	5.8	12

43	Automatic and integrated micro-enzyme assay (AIEA) platform for highly sensitive thrombin analysis via an engineered fluorescence protein-functionalized monolithic capillary column. <i>Analytical Chemistry</i> , 2015 , 87, 4552-9	7.8	19
42	Enzymatically generated long polyT-templated copper nanoparticles for versatile biosensing assay of DNA-related enzyme activity. <i>Analytical Methods</i> , 2015 , 7, 4355-4361	3.2	24
41	A universal platform for building molecular logic circuits based on a reconfigurable three-dimensional DNA nanostructure. <i>Chemical Science</i> , 2015 , 6, 3556-3564	9.4	53
40	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	3.7	32
39	From industrially weavable and knittable highly conductive yarns to large wearable energy storage textiles. <i>ACS Nano</i> , 2015 , 9, 4766-75	16.7	359
38	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, 17611-4	5.8	33
37	A dual enzymatic amplified strategy for the detection of endonuclease V activity. <i>Analytical Methods</i> , 2015 , 7, 8453-8458	3.2	4
36	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	7.8	107
35	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	13.27	102
34	Super-high rate stretchable polypyrrole-based supercapacitors with excellent cycling stability. <i>Nano Energy</i> , 2015 , 11, 518-525	17.1	214
33	Magnetic-Assisted, Self-Healable, Yarn-Based Supercapacitor. <i>ACS Nano</i> , 2015 , 9, 6242-51	16.7	248
32	Phosphorylation-Mediated Assembly of a Semisynthetic Fluorescent Protein for Label-Free Detection of Protein Kinase Activity. <i>Analytical Chemistry</i> , 2015 , 87, 6311-8	7.8	22
31	A self-healable and highly stretchable supercapacitor based on a dual crosslinked polyelectrolyte. <i>Nature Communications</i> , 2015 , 6, 10310	17.4	500
30	Enhanced tolerance to stretch-induced performance degradation of stretchable MnO ₂ -based supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 2569-74	9.5	61
29	Facile synthesis of FeO nanodisk with superior photocatalytic performance and mechanism insight. <i>Science and Technology of Advanced Materials</i> , 2015 , 16, 014801	7.1	55
28	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, 130-5	6.2	92
27	Label-free fluorescence assay for thrombin based on unmodified quantum dots. <i>Biosensors and Bioelectronics</i> , 2014 , 54, 42-7	11.8	28
26	Intra-molecular G-quadruplex structure generated by DNA-templated click chemistry: "turn-on" fluorescent probe for copper ions. <i>Biosensors and Bioelectronics</i> , 2014 , 55, 187-94	11.8	39

25	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, 2560-7	4.5	4
24	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	17.1	206
23	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	3.7	5
22	Randomly arrayed G-quadruplexes for label-free and real-time assay of enzyme activity. <i>Chemical Communications</i> , 2014 , 50, 6875-8	5.8	67
21	A supercharged fluorescent protein as a versatile probe for homogeneous DNA detection and methylation analysis. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 8358-62	16.4	33
20	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	3.2	39
19	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	11.8	63
18	Nanomaterial-based tools for protein kinase bioanalysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 58, 40-53	14.6	22
17	Fluorescent detection of protein kinase based on positively charged gold nanoparticles. <i>Talanta</i> , 2014 , 128, 360-5	6.2	15
16	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, 321-7	11.8	53
15	A Supercharged Fluorescent Protein as a Versatile Probe for Homogeneous DNA Detection and Methylation Analysis. <i>Angewandte Chemie</i> , 2014 , 126, 8498-8502	3.6	9
14	A Solid-State Electrochemiluminescence Sensor for Label-Free Analysis of Leukemia Cells. <i>Electroanalysis</i> , 2013 , 25, 1780-1786	3	3
13	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, 468-73	6.2	11
12	Fluorescent detection of protein kinase based on zirconium ions-immobilized magnetic nanoparticles. <i>Analytica Chimica Acta</i> , 2013 , 780, 89-94	6.6	28
11	Fluorescent detection of copper(II) based on DNA-templated click chemistry and graphene oxide. <i>Methods</i> , 2013 , 64, 299-304	4.6	17
10	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	3.2	17
9	Versatile electrochemiluminescent biosensor for protein-nucleic acid interaction based on the unique quenching effect of deoxyguanosine-5Rphosphate on electrochemiluminescence of CdTe/ZnS quantum dots. <i>Analytical Chemistry</i> , 2013 , 85, 6279-86	7.8	40
8	Immune-independent and label-free fluorescent assay for Cystatin C detection based on protein-stabilized Au nanoclusters. <i>Biosensors and Bioelectronics</i> , 2013 , 41, 256-61	11.8	69

7	A simple "clickable" biosensor for colorimetric detection of copper(II) ions based on unmodified gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2013 , 41, 663-8	11.8	79
6	A novel DNA-templated click chemistry strategy for fluorescent detection of copper(II) ions. <i>Chemical Communications</i> , 2012 , 48, 281-3	5.8	46
5	Colorimetric detection of apoptosis based on caspase-3 activity assay using unmodified gold nanoparticles. <i>Chemical Communications</i> , 2012 , 48, 997-9	5.8	83
4	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, 4412-4	5.8	34
3	Inductance-based sensing technique for wireless, remote-query measurement in liquid media. <i>Science China Chemistry</i> , 2010 , 53, 1391-1397	7.9	2
2	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, 373-8	4.5	47
1	Chemical/Biological approaches for the direct regulation of cell/bell aggregation. <i>Aggregate</i> ,	22.9	