Yan Huang

List of Publications by Year
in descending order

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113	11,339	38660 50	28224 105
papers	citations	h-index	g-index

116	116	116	13854
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An extremely safe and wearable solid-state zinc ion battery based on a hierarchical structured polymer electrolyte. Energy and Environmental Science, 2018, 11, 941-951.	15.6	731
2	Photoluminescent Ti₃C₂ MXene Quantum Dots for Multicolor Cellular Imaging. Advanced Materials, 2017, 29, 1604847.	11.1	692
3	A self-healable and highly stretchable supercapacitor based on a dual crosslinked polyelectrolyte. Nature Communications, 2015, 6, 10310.	5.8	634
4	Nanostructured Polypyrrole as a flexible electrode material of supercapacitor. Nano Energy, 2016, 22, 422-438.	8.2	629
5	Highly Flexible, Freestanding Supercapacitor Electrode with Enhanced Performance Obtained by Hybridizing Polypyrrole Chains with MXene. Advanced Energy Materials, 2016, 6, 1600969.	10.2	580
6	An Intrinsically Stretchable and Compressible Supercapacitor Containing a Polyacrylamide Hydrogel Electrolyte. Angewandte Chemie - International Edition, 2017, 56, 9141-9145.	7.2	458
7	Texturing in situ: N,S-enriched hierarchically porous carbon as a highly active reversible oxygen electrocatalyst. Energy and Environmental Science, 2017, 10, 742-749.	15.6	451
8	Multifunctional Energy Storage and Conversion Devices. Advanced Materials, 2016, 28, 8344-8364.	11.1	420
9	From Industrially Weavable and Knittable Highly Conductive Yarns to Large Wearable Energy Storage Textiles. ACS Nano, 2015, 9, 4766-4775.	7.3	411
10	Recent Progress on Flexible and Wearable Supercapacitors. Small, 2017, 13, 1701827.	5.2	365
11	Weavable, Conductive Yarn-Based NiCo//Zn Textile Battery with High Energy Density and Rate Capability. ACS Nano, 2017, 11, 8953-8961.	7.3	310
12	Magnetic-Assisted, Self-Healable, Yarn-Based Supercapacitor. ACS Nano, 2015, 9, 6242-6251.	7.3	291
13	Polyurethane/Cotton/Carbon Nanotubes Core-Spun Yarn as High Reliability Stretchable Strain Sensor for Human Motion Detection. ACS Applied Materials & Interfaces, 2016, 8, 24837-24843.	4.0	251
14	Super-high rate stretchable polypyrrole-based supercapacitors with excellent cycling stability. Nano Energy, 2015, 11, 518-525.	8.2	248
15	Porous Fe3O4/carbon composite electrode material prepared from metal-organic framework template and effect of temperature on its capacitance. Nano Energy, 2014, 8, 133-140.	8.2	232
16	Mn₃O₄nanoparticles on layer-structured Ti₃C₂MXene towards the oxygen reduction reaction and zincâ€“air batteries. Journal of Materials Chemistry A, 2017, 5, 20818-20823.	5.2	226
17	A Highly Durable, Transferable, and Substrateâ€Versatile Highâ€Performance Allâ€Polymer Microâ€Supercapacitor with Plugâ€andâ€Play Function. Advanced Materials, 2017, 29, 1605137.	11.1	160
18	Component Matters: Paving the Roadmap toward Enhanced Electrocatalytic Performance of Graphitic C₃N₄-Based Catalysts via Atomic Tuning. ACS Nano, 2017, 11, 6004-6014.	7.3	144

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19	A shape memory supercapacitor and its application in smart energy storage textiles. Journal of Materials Chemistry A, 2016, 4, 1290-1297.	5.2	134
20	Capacitance Enhancement in a Semiconductor Nanostructureâ€Based Supercapacitor by Solar Light and a Selfâ€Powered Supercapacitorâ€“Photodetector System. Advanced Functional Materials, 2016, 26, 4481-4490.	7.8	133
21	Near-Infrared Dual-Emission Quantum Dotsâ€“Gold Nanoclusters Nanohybrid via Co-Template Synthesis for Ratiometric Fluorescent Detection and Bioimaging of Ascorbic Acid In Vitro and In Vivo. Analytical Chemistry, 2015, 87, 9998-10005.	3.2	127
22	An electrochromic supercapacitor and its hybrid derivatives: quantifiably determining their electrical energy storage by an optical measurement. Journal of Materials Chemistry A, 2015, 3, 21321-21327.	5.2	124
23	A high performance fiber-shaped PEDOT@MnO₂//C@Fe₃O₄asymmetric supercapacitor for wearable electronics. Journal of Materials Chemistry A, 2016, 4, 14877-14883.	5.2	118
24	Toward enhanced activity of a graphitic carbon nitride-based electrocatalyst in oxygen reduction and hydrogen evolution reactions via atomic sulfur doping. Journal of Materials Chemistry A, 2016, 4, 12205-12211.	5.2	112
25	An aptamer-based quartz crystal microbalance biosensor for sensitive and selective detection of leukemia cells using silver-enhanced gold nanoparticle label. Talanta, 2014, 126, 130-135.	2.9	108
26	Fluorescent Ti₃C₂MXene quantum dots for an alkaline phosphatase assay and embryonic stem cell identification based on the inner filter effect. Nanoscale, 2018, 10, 19579-19585.	2.8	104
27	Resurfaced Fluorescent Protein as a Sensing Platform for Label-Free Detection of Copper(II) Ion and Acetylcholinesterase Activity. Analytical Chemistry, 2015, 87, 1974-1980.	3.2	102
28	Extremely Stable Polypyrrole Achieved via Molecular Ordering for Highly Flexible Supercapacitors. ACS Applied Materials & Interfaces, 2016, 8, 2435-2440.	4.0	99
29	Colorimetric detection of apoptosis based on caspase-3 activity assay using unmodified gold nanoparticles. Chemical Communications, 2012, 48, 997-999.	2.2	96
30	Randomly arrayed G-quadruplexes for label-free and real-time assay of enzyme activity. Chemical Communications, 2014, 50, 6875.	2.2	85
31	A simple â€œclickableâ€•biosensor for colorimetric detection of copper(II) ions based on unmodified gold nanoparticles. Biosensors and Bioelectronics, 2013, 41, 663-668.	5.3	84
32	Boron Element Nanowires Electrode for Supercapacitors. Advanced Energy Materials, 2018, 8, 1703117.	10.2	81
33	Immune-independent and label-free fluorescent assay for Cystatin C detection based on protein-stabilized Au nanoclusters. Biosensors and Bioelectronics, 2013, 41, 256-261.	5.3	79
34	Highly Integrated Supercapacitorâ€Sensor Systems via Material and Geometry Design. Small, 2016, 12, 3393-3399.	5.2	78
35	Self-Assembled DNA Hydrogel Based on Enzymatically Polymerized DNA for Protein Encapsulation and Enzyme/DNAzyme Hybrid Cascade Reaction. ACS Applied Materials & Interfaces, 2016, 8, 22801-22807.	4.0	77
36	Engineering of Nucleic Acids and Synthetic Cofactors as Holo Sensors for Probing Signaling Molecules in the Cellular Membrane Microenvironment. Angewandte Chemie - International Edition, 2019, 58, 6590-6594.	7.2	76

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37	Fabrication of Boron Nitride Nanosheets by Exfoliation. Chemical Record, 2016, 16, 1204-1215.	2.9	74
38	DNA nanostructure-based nucleic acid probes: construction and biological applications. Chemical Science, 2021, 12, 7602-7622.	3.7	74
39	A gold nanoparticles colorimetric assay for label-free detection of protein kinase activity based on phosphorylation protection against exopeptidase cleavage. Biosensors and Bioelectronics, 2014, 53, 295-300.	5.3	71
40	Cell-Surface-Anchored Ratiometric DNA Tweezer for Real-Time Monitoring of Extracellular and Apoplastic pH. Analytical Chemistry, 2018, 90, 13459-13466.	3.2	70
41	Chimeric DNA-Functionalized Titanium Carbide MXenes for Simultaneous Mapping of Dual Cancer Biomarkers in Living Cells. Analytical Chemistry, 2019, 91, 1651-1658.	3.2	67
42	Hydrothermal synthesis of blue-fluorescent monolayer BN and BCNO quantum dots for bio-imaging probes. RSC Advances, 2016, 6, 79090-79094.	1.7	66
43	Enhanced Tolerance to Stretch-Induced Performance Degradation of Stretchable MnO₂-Based Supercapacitors. ACS Applied Materials & Interfaces, 2015, 7, 2569-2574.	4.0	65
44	Facile synthesis of Î±-Fe₂O₃nanodisk with superior photocatalytic performance and mechanism insight. Science and Technology of Advanced Materials, 2015, 16, 014801.	2.8	63
45	A universal platform for building molecular logic circuits based on a reconfigurable three-dimensional DNA nanostructure. Chemical Science, 2015, 6, 3556-3564.	3.7	61
46	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. Biosensors and Bioelectronics, 2017, 95, 41-47.	5.3	61
47	An Intrinsically Stretchable and Compressible Supercapacitor Containing a Polyacrylamide Hydrogel Electrolyte. Angewandte Chemie, 2017, 129, 9269-9273.	1.6	58
48	A versatile biosensing system for DNA-related enzyme activity assay via the synthesis of silver nanoclusters using enzymatically-generated DNA as template. Biosensors and Bioelectronics, 2014, 61, 321-327.	5.3	56
49	Capillary electrophoresis with end-column electrochemiluminescence for the analysis of chloroquine phosphate and the study on its interaction with human serum albumin. Journal of Chromatography A, 2007, 1154, 373-378.	1.8	54
50	Phospholipid-Tailored Titanium Carbide Nanosheets as a Novel Fluorescent Nanoprobe for Activity Assay and Imaging of Phospholipase D. Analytical Chemistry, 2018, 90, 6742-6748.	3.2	52
51	A novel DNA-templated click chemistry strategy for fluorescent detection of copper(<scp>ii</scp>) ions. Chemical Communications, 2012, 48, 281-283.	2.2	51
52	A modularization approach for linear-shaped functional supercapacitors. Journal of Materials Chemistry A, 2016, 4, 4580-4586.	5.2	50
53	Versatile Electrochemiluminescent Biosensor for Proteinâ€“Nucleic Acid Interaction Based on the Unique Quenching Effect of Deoxyguanosine-5â€²-phosphate on Electrochemiluminescence of CdTe/ZnS Quantum Dots. Analytical Chemistry, 2013, 85, 6279-6286.	3.2	46
54	Multifunctional Gold Nanoclusters-Based Nanosurface Energy Transfer Probe for Real-Time Monitoring of Cell Apoptosis and Self-Evaluating of Pro-Apoptotic Theranostics. Analytical Chemistry, 2016, 88, 11184-11192.	3.2	45

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55	A de novo strategy to develop NIR precipitating fluorochrome for long-term in situ cell membrane bioimaging. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	44
56	Enhanced nonenzymatic sensing of hydrogen peroxide released from living cells based on Fe₃O₄/self-reduced graphene nanocomposites. Analytical Methods, 2014, 6, 6073.	1.3	43
57	Robust reduced graphene oxide paper fabricated with a household non-stick frying pan: a large-area freestanding flexible substrate for supercapacitors. RSC Advances, 2015, 5, 33981-33989.	1.7	43
58	Intra-molecular G-quadruplex structure generated by DNA-templated click chemistry: â€œTurn-onâ€• fluorescent probe for copper ions. Biosensors and Bioelectronics, 2014, 55, 187-194.	5.3	42
59	Enzyme-Activated G-Quadruplex Synthesis for in Situ Label-Free Detection and Bioimaging of Cell Apoptosis. Analytical Chemistry, 2017, 89, 1892-1899.	3.2	38
60	Unique electrocatalytic activity of a nucleic acid-mimicking coordination polymer for the sensitive detection of coenzyme A and histone acetyltransferase activity. Chemical Communications, 2015, 51, 17611-17614.	2.2	37
61	Functional Titanium Carbide MXenes-Loaded Entropy-Driven RNA Explorer for Long Noncoding RNA PCA3 Imaging in Live Cells. Analytical Chemistry, 2019, 91, 8622-8629.	3.2	37
62	Protein@Inorganic Nanodumpling System for High-Loading Protein Delivery with Activatable Fluorescence and Magnetic Resonance Bimodal Imaging Capabilities. ACS Nano, 2020, 14, 2172-2182.	7.3	37
63	Simple, rapid and label-free colorimetric assay for Zn2+ based on unmodified gold nanoparticles and specific Zn2+ binding peptide. Chemical Communications, 2011, 47, 4412.	2.2	36
64	A Supercharged Fluorescent Protein as a Versatile Probe for Homogeneous DNA Detection and Methylation Analysis. Angewandte Chemie - International Edition, 2014, 53, 8358-8362.	7.2	36
65	Near-infrared light-controllable MXene hydrogel for tunable on-demand release of therapeutic proteins. Acta Biomaterialia, 2021, 130, 138-148.	4.1	36
66	PAM-less conditional DNA substrates leverage trans-cleavage of CRISPR-Cas12a for versatile live-cell biosensing. Chemical Science, 2022, 13, 2011-2020.	3.7	35
67	Label-free fluorescence assay for thrombin based on unmodified quantum dots. Biosensors and Bioelectronics, 2014, 54, 42-47.	5.3	34
68	Fluorescent detection of protein kinase based on zirconium ions-immobilized magnetic nanoparticles. Analytica Chimica Acta, 2013, 780, 89-94.	2.6	33
69	Development of the DNA-based biosensors for high performance in detection of molecular biomarkers: More rapid, sensitive, and universal. Biosensors and Bioelectronics, 2022, 197, 113739.	5.3	32
70	Nanomaterial-based tools for protein kinase bioanalysis. TrAC - Trends in Analytical Chemistry, 2014, 58, 40-53.	5.8	31
71	A biomimetic colorimetric logic gate system based on multi-functional peptide-mediated gold nanoparticle assembly. Nanoscale, 2016, 8, 8591-8599.	2.8	31
72	A poly(ADP-ribose) polymerase-1 activity assay based on the FRET between a cationic conjugated polymer and supercharged green fluorescent protein. Chemical Communications, 2015, 51, 14389-14392.	2.2	29

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73	Enzymatically generated long polyT-templated copper nanoparticles for versatile biosensing assay of DNA-related enzyme activity. Analytical Methods, 2015, 7, 4355-4361.	1.3	29
74	Phosphorylation-Mediated Assembly of a Semisynthetic Fluorescent Protein for Label-Free Detection of Protein Kinase Activity. Analytical Chemistry, 2015, 87, 6311-6318.	3.2	27
75	Fluorometric and Colorimetric Dual-Readout Assay for Histone Demethylase Activity Based on Formaldehyde Inhibition of Ag⁺-Triggered Oxidation of O-Phenylenediamine. Analytical Chemistry, 2020, 92, 9421-9428.	3.2	27
76	Peptide Logic Circuits Based on Chemoenzymatic Ligation for Programmable Cell Apoptosis. Angewandte Chemie - International Edition, 2017, 56, 14888-14892.	7.2	26
77	Transpeptidation-Mediated Assembly of Tripartite Split Green Fluorescent Protein for Label-Free Assay of Sortase Activity. Analytical Chemistry, 2018, 90, 3245-3252.	3.2	23
78	Live-Cell Imaging of Neurotransmitter Release with a Cell-Surface-Anchored DNA-Nanoprism Fluorescent Sensor. Analytical Chemistry, 2020, 92, 15194-15201.	3.2	23
79	Chimeric Peptides Self-Assembling on Titanium Carbide MXenes as Biosensing Interfaces for Activity Assay of Post-translational Modification Enzymes. Analytical Chemistry, 2020, 92, 8819-8826.	3.2	23
80	Automatic and Integrated Micro-Enzyme Assay (AIÎ¼EA) Platform for Highly Sensitive Thrombin Analysis via an Engineered Fluorescence Protein-Functionalized Monolithic Capillary Column. Analytical Chemistry, 2015, 87, 4552-4559.	3.2	22
81	Ultrasensitive ratiometric detection of Pb2+ using DNA tetrahedron-mediated hyperbranched hybridization chain reaction. Analytica Chimica Acta, 2021, 1147, 170-177.	2.6	21
82	Fluorescent detection of copper(II) based on DNA-templated click chemistry and graphene oxide. Methods, 2013, 64, 299-304.	1.9	19
83	Fluorescent detection of protein kinase based on positively charged gold nanoparticles. Talanta, 2014, 128, 360-365.	2.9	19
84	Design strategies for fluorescent proteins/mimics and their applications in biosensing and bioimaging. TrAC - Trends in Analytical Chemistry, 2020, 122, 115757.	5.8	18
85	A colorimetric and fluorescence sensing platform for two analytes in homogenous solution based on aptamer-modified gold nanoparticles. Analytical Methods, 2013, 5, 2477.	1.3	17
86	DNA-mediated supercharged fluorescent protein/graphene oxide interaction for label-free fluorescence assay of base excision repair enzyme activity. Chemical Communications, 2015, 51, 13373-13376.	2.2	16
87	Target-activated transcription for the amplified sensing of protease biomarkers. Chemical Science, 2020, 11, 2993-2998.	3.7	16
88	Biomineralization synthesis of a near-infrared fluorescent nanoprobe for direct glucose sensing in whole blood. Nanoscale, 2020, 12, 864-870.	2.8	15
89	Simultaneous Monitoring of Cell-surface Receptor and Tumor-targeted Photodynamic Therapy via TdT-initiated Poly-G-Quadruplexes. Scientific Reports, 2018, 8, 5551.	1.6	14
90	Charge designable and tunable GFP as a target pH-responsive carrier for intracellular functional protein delivery and tracing. Chemical Communications, 2018, 54, 7806-7809.	2.2	14

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91	Label-free fluorescent detection of thrombin activity based on a recombinant enhanced green fluorescence protein and nickel ions immobilized nitrilotriacetic acid-coated magnetic nanoparticles. Talanta, 2013, 116, 468-473.	2.9	13
92	A semisynthetic fluorescent protein assembly-based FRET probe for real-time profiling of cell membrane protease functions in situ. Chemical Communications, 2019, 55, 2218-2221.	2.2	13
93	Electrostatic Force Triggering Elastic Condensation of Double-Stranded DNA for High-Performance One-Step Immunoassay. Analytical Chemistry, 2018, 90, 11446-11452.	3.2	12
94	Engineering of Nucleic Acids and Synthetic Cofactors as Holo Sensors for Probing Signaling Molecules in the Cellular Membrane Microenvironment. Angewandte Chemie, 2019, 131, 6662-6666.	1.6	12
95	Surface charge tuneable fluorescent protein-based logic gates for smart delivery of nucleic acids. Chemical Communications, 2017, 53, 11326-11329.	2.2	10
96	Integration of FRET and sequencing to engineer kinase biosensors from mammalian cell libraries. Nature Communications, 2021, 12, 5031.	5.8	10
97	Label-free fluorescent enzymatic assay of citrate synthase by CoAâ€“Au(I) co-ordination polymer and its application in a multi-enzyme logic gate cascade. Biosensors and Bioelectronics, 2016, 86, 1038-1046.	5.3	8
98	A label-free fluorescence assay for thrombin activity analysis based on fluorescent protein and gold nanoparticles. Analytical Methods, 2016, 8, 3691-3697.	1.3	8
99	An enzymatic polymerization-activated silver nanocluster probe forin situapoptosis assay. Analyst, The, 2018, 143, 2908-2914.	1.7	7
100	Click-Type Proteinâ€“DNA Conjugation for Mn²⁺ Imaging in Living Cells. Analytical Chemistry, 2019, 91, 10180-10187.	3.2	7
101	Amplified and label-free electrochemical detection of a protease biomarker by integrating proteolysis-triggered transcription. Biosensors and Bioelectronics, 2021, 190, 113372.	5.3	6
102	Chemicalâ€“biological approaches for the direct regulation of cellâ€“cell aggregation. Aggregate, 2022, 3, .	5.2	6
103	A Mixâ€andâ€Read Fluorescence Strategy for the Switchâ€On Probing of Kinase Activity Based on an Aptamericâ€Peptide/Grapheneâ€Oxide Platform. Chemistry - an Asian Journal, 2014, 9, 2560-2567.	1.7	5
104	Chemical colorimetric square wave and its derived logic gates based on tunable growth of plasmonic gold nanoparticles. RSC Advances, 2014, 4, 18668-18675.	1.7	5
105	Sensitive detection of DNA methyltransferase activity based on supercharged fluorescent protein and template-free DNA polymerization. Science China Chemistry, 2016, 59, 809-815.	4.2	5
106	Peptide Logic Circuits Based on Chemoenzymatic Ligation for Programmable Cell Apoptosis. Angewandte Chemie, 2017, 129, 15084-15088.	1.6	5
107	A Solidâ€State Electrochemiluminescence Sensor for Labelâ€Free Analysis of Leukemia Cells. Electroanalysis, 2013, 25, 1780-1786.	1.5	4
108	A dual enzymatic amplified strategy for the detection of endonuclease V activity. Analytical Methods, 2015, 7, 8453-8458.	1.3	4

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109	Dual-Product Synergistically Enhanced Colorimetric Assay for Sensitive Detection of Lipid Transferase Activity. Analytical Chemistry, 2020, 92, 15236-15243.	3.2	4
110	Inductance-based sensing technique for wireless, remote-query measurement in liquid media. Science China Chemistry, 2010, 53, 1391-1397.	4.2	3
111	Sensitive and versatile fluorescent enzymatic assay of nucleases and DNA methyltransferase based on a supercharged fluorescent protein. RSC Advances, 2016, 6, 34074-34080.	1.7	3
112	Photothermally Activated Coacervate Model Protocells as Signal Transducers Endow Mammalian Cells with Light Sensitivity. Advanced Biology, 2021, 5, e2100695.	1.4	1
113	Enzyme-activated anchoring of peptide probes onto plasma membranes for selectively lighting up target cells. Analyst, The, 2020, 145, 3626-3633.	1.7	0