

# Yang Tian

## List of Publications by Year in descending order

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154  
papers

10,594  
citations

34016

52  
h-index

33814

99  
g-index

161  
all docs

161  
docs citations

161  
times ranked

12046  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms and Applications of Plasmon-Induced Charge Separation at TiO <sub>2</sub> Films Loaded with Gold Nanoparticles. <i>Journal of the American Chemical Society</i> , 2005, 127, 7632-7637.	6.6	1,842
2	Functional Surface Engineering of C-Dots for Fluorescent Biosensing and in Vivo Bioimaging. <i>Accounts of Chemical Research</i> , 2014, 47, 20-30.	7.6	836
3	Carbon Dot-Based Inorganic-Organic Nanosystem for Two-Photon Imaging and Biosensing of pH Variation in Living Cells and Tissues. <i>Advanced Materials</i> , 2012, 24, 5844-5848.	11.1	514
4	Carbon-Dot-Based Dual-Emission Nanohybrid Produces a Ratiometric Fluorescent Sensor for In Vivo Imaging of Cellular Copper Ions. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7185-7189.	7.2	504
5	Ratiometric Fluorescence Probe for Monitoring Hydroxyl Radical in Live Cells Based on Gold Nanoclusters. <i>Analytical Chemistry</i> , 2014, 86, 1829-1836.	3.2	210
6	Carbon-Dot-Based Ratiometric Fluorescent Probe for Imaging and Biosensing of Superoxide Anion in Live Cells. <i>Analytical Chemistry</i> , 2014, 86, 7071-7078.	3.2	207
7	Real-Time Imaging and Simultaneous Quantification of Mitochondrial H <sub>2</sub> O <sub>2</sub> and ATP in Neurons with a Single Two-Photon Fluorescence-Lifetime-Based Probe. <i>Journal of the American Chemical Society</i> , 2020, 142, 7532-7541.	6.6	182
8	Sensitive and Selective Colorimetric Visualization of Cerebral Dopamine Based on Double Molecular Recognition. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1837-1840.	7.2	174
9	Highly Selective Electrochemical Strategy for Monitoring of Cerebral Cu <sup>2+</sup> Based on a Carbon Dot-TPEA Hybridized Surface. <i>Analytical Chemistry</i> , 2013, 85, 418-425.	3.2	158
10	Superoxide Dismutase-Based Third-Generation Biosensor for Superoxide Anion. <i>Analytical Chemistry</i> , 2002, 74, 2428-2434.	3.2	147
11	Light-Controlled Generation of Singlet Oxygen within a Discrete Dual-Stage Metallacycle for Cancer Therapy. <i>Journal of the American Chemical Society</i> , 2019, 141, 8943-8950.	6.6	136
12	Shape-Controlled Electrodeposition of Gold Nanostructures. <i>Journal of Physical Chemistry B</i> , 2006, 110, 23478-23481.	1.2	133
13	A Two-Channel Ratiometric Electrochemical Biosensor for In Vivo Monitoring of Copper Ions in a Rat Brain Using Gold Truncated Octahedral Microcages. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8129-8133.	7.2	130
14	Gold nanocluster-based fluorescence biosensor for targeted imaging in cancer cells and ratiometric determination of intracellular pH. <i>Biosensors and Bioelectronics</i> , 2015, 65, 183-190.	5.3	123
15	A Single Biosensor for Evaluating the Levels of Copper Ion and L-Cysteine in a Live Rat Brain with Alzheimer's Disease. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14053-14056.	7.2	121
16	Micro Electrochemical pH Sensor Applicable for Real-Time Ratiometric Monitoring of pH Values in Rat Brains. <i>Analytical Chemistry</i> , 2016, 88, 2113-2118.	3.2	121
17	Mitochondria-Targeted DNA Nanoprobe for Real-Time Imaging and Simultaneous Quantification of Ca <sup>2+</sup> and pH in Neurons. <i>ACS Nano</i> , 2018, 12, 12357-12368.	7.3	115
18	A Selective and Accurate Ratiometric Electrochemical Biosensor for Monitoring of Cu <sup>2+</sup> Ions in a Rat Brain. <i>Analytical Chemistry</i> , 2015, 87, 2931-2936.	3.2	113

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19	A Single Nanoprobe for Ratiometric Imaging and Biosensing of Hypochlorite and Glutathione in Live Cells Using Surface-Enhanced Raman Scattering. <i>Analytical Chemistry</i> , 2016, 88, 9518-9523.	3.2	112
20	In Vivo Detection of Superoxide Anion in Bean Sprout Based on ZnO Nanodisks with Facilitated Activity for Direct Electron Transfer of Superoxide Dismutase. <i>Analytical Chemistry</i> , 2008, 80, 5839-5846.	3.2	108
21	PolyA-Mediated DNA Assembly on Gold Nanoparticles for Thermodynamically Favorable and Rapid Hybridization Analysis. <i>Analytical Chemistry</i> , 2016, 88, 4949-4954.	3.2	107
22	Earthworm-like N, S-Doped carbon tube-encapsulated Co <sub>9</sub> S <sub>8</sub> nanocomposites derived from nanoscaled metal-organic frameworks for highly efficient bifunctional oxygen catalysis. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5935-5943.	5.2	101
23	Simultaneous and Direct Determination of Tryptophan and Tyrosine at Boron-Doped Diamond Electrode. <i>Electroanalysis</i> , 2006, 18, 830-834.	1.5	99
24	Electrochemistry and Electrocatalytic Activities of Superoxide Dismutases at Gold Electrodes Modified with a Self-Assembled Monolayer. <i>Analytical Chemistry</i> , 2004, 76, 4162-4168.	3.2	93
25	Plasmon-Driven Selective Oxidation of Aromatic Alcohols to Aldehydes in Water with Recyclable Pt/TiO <sub>2</sub> Nanocomposites. <i>ChemCatChem</i> , 2011, 3, 127-130.	1.8	93
26	A carbon fiber microelectrode-based third-generation biosensor for superoxide anion. <i>Biosensors and Bioelectronics</i> , 2005, 21, 557-564.	5.3	85
27	Single Probe for Imaging and Biosensing of pH, Cu <sup>2+</sup> Ions, and pH/Cu <sup>2+</sup> in Live Cells with Ratiometric Fluorescence Signals. <i>Analytical Chemistry</i> , 2015, 87, 5333-5339.	3.2	85
28	An Electrochemical Biosensor with Dual Signal Outputs: Toward Simultaneous Quantification of pH and O <sub>2</sub> in the Brain upon Ischemia and in a Tumor during Cancer Starvation Therapy. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10471-10475.	7.2	84
29	A SERS Optophysiological Probe for the Real-Time Mapping and Simultaneous Determination of the Carbonate Concentration and pH Value in a Live Mouse Brain. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5256-5260.	7.2	82
30	Functionalized hBN Nanosheets as a Theranostic Platform for SERS Real-Time Monitoring of MicroRNA and Photodynamic Therapy. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7757-7761.	7.2	81
31	Molecular Hydrogel-Stabilized Enzyme with Facilitated Electron Transfer for Determination of H <sub>2</sub> O <sub>2</sub> Released from Live Cells. <i>Analytical Chemistry</i> , 2014, 86, 4395-4401.	3.2	80
32	Stochastic DNA Walkers in Droplets for Super-Multiplexed Bacterial Phenotype Detection. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15448-15454.	7.2	79
33	Rational Design of Specific Recognition Molecules for Simultaneously Monitoring of Endogenous Polysulfide and Hydrogen Sulfide in the Mouse Brain. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13948-13953.	7.2	76
34	A facilitated electron transfer of copper-zinc superoxide dismutase (SOD) based on a cysteine-bridged SOD electrode. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2002, 1569, 151-158.	1.1	74
35	Mitochondria-Targeted Ratiometric Fluorescent Nanosensor for Simultaneous Biosensing and Imaging of O <sub>2</sub> and pH in Live Cells. <i>Analytical Chemistry</i> , 2016, 88, 12294-12302.	3.2	74
36	Development of an Efficient Biosensor for the In Vivo Monitoring of Cu <sup>+</sup> and pH in the Brain: Rational Design and Synthesis of Recognition Molecules. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16328-16332.	7.2	73

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37	Two-Photon Ratiometric Fluorescence Probe with Enhanced Absorption Cross Section for Imaging and Biosensing of Zinc Ions in Hippocampal Tissue and Zebrafish. <i>Analytical Chemistry</i> , 2017, 89, 2553-2560.	3.2	72
38	Engineering Carbon Nanotube Fiber for Real-Time Quantification of Ascorbic Acid Levels in a Live Rat Model of Alzheimer's Disease. <i>Analytical Chemistry</i> , 2017, 89, 1831-1837.	3.2	71
39	Pyramidal, Rodlike, Spherical Gold Nanostructures for Direct Electron Transfer of Copper, Zinc-Superoxide Dismutase: Application to Superoxide Anion Biosensors. <i>Langmuir</i> , 2008, 24, 6359-6366.	1.6	69
40	Designing Recognition Molecules and Tailoring Functional Surfaces for In Vivo Monitoring of Small Molecules in the Brain. <i>Accounts of Chemical Research</i> , 2018, 51, 688-696.	7.6	69
41	Real-Time Electrochemical Monitoring of Cellular H <sub>2</sub> O <sub>2</sub> Integrated with In Situ Selective Cultivation of Living Cells Based on Dual Functional Protein Microarrays at Au <sup>+</sup> TiO <sub>2</sub> Surfaces. <i>Analytical Chemistry</i> , 2010, 82, 6512-6518.	3.2	67
42	Two-Photon Ratiometric Fluorescent Sensor Based on Specific Biomolecular Recognition for Selective and Sensitive Detection of Copper Ions in Live Cells. <i>Analytical Chemistry</i> , 2013, 85, 11936-11943.	3.2	67
43	A highly sensitive chemiluminescence sensor for detecting mercury (II) ions: a combination of Exonuclease III-aided signal amplification and graphene oxide-assisted background reduction. <i>Science China Chemistry</i> , 2015, 58, 514-518.	4.2	63
44	A novel ternary heterostructure with dramatic SERS activity for evaluation of PD-L1 expression at the single-cell level. <i>Science Advances</i> , 2018, 4, eaau3494.	4.7	63
45	Pillar[5]arene-Based Fluorescent Sensor Array for Biosensing of Intracellular Multi-neurotransmitters through Host-Guest Recognitions. <i>Journal of the American Chemical Society</i> , 2022, 144, 2351-2359.	6.6	62
46	Ratiometric Electrochemical Sensor for Selective Monitoring of Cadmium Ions Using Biomolecular Recognition. <i>Analytical Chemistry</i> , 2014, 86, 10668-10673.	3.2	61
47	Bubble-Mediated Ultrasensitive Multiplex Detection of Metal Ions in Three-Dimensional DNA Nanostructure-Encoded Microchannels. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 16026-16034.	4.0	58
48	A Copper Nanocluster-Based Fluorescent Probe for Real-Time Imaging and Ratiometric Biosensing of Calcium Ions in Neurons. <i>Analytical Chemistry</i> , 2019, 91, 2488-2497.	3.2	56
49	WO <sub>3</sub> nanostructures facilitate electron transfer of enzyme: Application to detection of H <sub>2</sub> O <sub>2</sub> with high selectivity. <i>Biosensors and Bioelectronics</i> , 2009, 24, 2465-2469.	5.3	53
50	Electrochemical Growth of Gold Pyramidal Nanostructures: Toward Super-Amphiphobic Surfaces. <i>Chemistry of Materials</i> , 2006, 18, 5820-5822.	3.2	52
51	Convection-Driven Pull-Down Assays in Nanoliter Droplets Using Scaffolded Aptamers. <i>Analytical Chemistry</i> , 2017, 89, 3468-3473.	3.2	52
52	A two-photon ratiometric fluorescence probe for Cupric Ions in Live Cells and Tissues. <i>Scientific Reports</i> , 2013, 3, 2933.	1.6	50
53	An Electrochemophysiological Microarray for Real-Time Monitoring and Quantification of Multiple Ions in the Brain of a Freely Moving Rat. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10426-10430.	7.2	50
54	Electrochemical in-vivo sensors using nanomaterials made from carbon species, noble metals, or semiconductors. <i>Mikrochimica Acta</i> , 2014, 181, 1471-1484.	2.5	48

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55	NTA-modified carbon electrode as a general relaying substrate to facilitate electron transfer of SOD: Application to in vivo monitoring of O <sub>2</sub> • <sup>-</sup> in a rat brain. <i>Biosensors and Bioelectronics</i> , 2013, 43, 101-107.	5.3	46
56	Single Biosensor for Simultaneous Quantification of Glucose and pH in a Rat Brain of Diabetic Model Using Both Current and Potential Outputs. <i>Analytical Chemistry</i> , 2017, 89, 6656-6662.	3.2	45
57	In vivo monitoring of local pH values in a live rat brain based on the design of a specific electroactive molecule for H <sup>+</sup> . <i>Chemical Communications</i> , 2016, 52, 3717-3720.	2.2	44
58	Ratiometric SERS imaging and selective biosensing of nitric oxide in live cells based on trisoctahedral gold nanostructures. <i>Chemical Communications</i> , 2017, 53, 1880-1883.	2.2	43
59	Dual-Mode Au Nanoprobe Based on Surface Enhancement Raman Scattering and Colorimetry for Sensitive Determination of Telomerase Activity Both in Cell Extracts and in the Urine of Patients. <i>ACS Sensors</i> , 2019, 4, 211-217.	4.0	43
60	Ultrasensitive Sensing of Volatile Organic Compounds Using a Cu-Doped SnO <sub>2</sub> -NiO p-n Heterostructure That Shows Significant Raman Enhancement**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26260-26267.	7.2	41
61	Mechanism of Surface-Enhanced Raman Scattering Based on 3D Graphene-TiO <sub>2</sub> Nanocomposites and Application to Real-Time Monitoring of Telomerase Activity in Differentiation of Stem Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 36596-36605.	4.0	39
62	Bioimaging and Biosensing of Ferrous Ion in Neurons and HepG2 Cells upon Oxidative Stress. <i>Analytical Chemistry</i> , 2018, 90, 2816-2825.	3.2	39
63	A Robust Au-C Functionalized Surface: Toward Real-Time Mapping and Accurate Quantification of Fe <sup>2+</sup> in the Brains of Live AD Mouse Models. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20499-20507.	7.2	39
64	A ratiometric fluorescent probe for bioimaging and biosensing of HBrO in mitochondria upon oxidative stress. <i>Chemical Communications</i> , 2018, 54, 12198-12201.	2.2	37
65	Label-Free SERS Strategy for In Situ Monitoring and Real-Time Imaging of A $\beta$ <sup>2</sup> Aggregation Process in Live Neurons and Brain Tissues. <i>Analytical Chemistry</i> , 2020, 92, 5910-5920.	3.2	37
66	Nonenzymatic Electrochemical Sensor with Ratiometric Signal Output for Selective Determination of Superoxide Anion in Rat Brain. <i>Analytical Chemistry</i> , 2021, 93, 5570-5576.	3.2	37
67	Two-photon fluorescent Zn <sup>2+</sup> probe for ratiometric imaging and biosensing of Zn <sup>2+</sup> in living cells and larval zebrafish. <i>Biosensors and Bioelectronics</i> , 2020, 148, 111666.	5.3	35
68	Mechanism of Photoluminescence in Ag Nanoclusters: Metal-Centered Emission versus Synergistic Effect in Ligand-Centered Emission. <i>Journal of Physical Chemistry C</i> , 2019, 123, 18638-18645.	1.5	33
69	Real-time monitoring of peroxynitrite (ONOO <sup>-</sup> ) in the rat brain by developing a ratiometric electrochemical biosensor. <i>Analyst</i> , 2019, 144, 2150-2157.	1.7	33
70	Real-time Tracking and Sensing of Cu <sup>+</sup> and Cu <sup>2+</sup> with a Single SERS Probe in the Live Brain: Toward Understanding Why Copper Ions Were Increased upon Ischemia. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 21351-21359.	7.2	33
71	Long-term Tracking and Dynamically Quantifying of Reversible Changes of Extracellular Ca <sup>2+</sup> in Multiple Brain Regions of Freely Moving Animals. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14429-14437.	7.2	32
72	Sirtuin 5-Mediated Lysine Desuccinylation Protects Mitochondrial Metabolism Following Subarachnoid Hemorrhage in Mice. <i>Stroke</i> , 2021, 52, 4043-4053.	1.0	31

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73	2D ratiometric fluorescent pH sensor for tracking of cells proliferation and metabolism. <i>Biosensors and Bioelectronics</i> , 2015, 70, 202-208.	5.3	30
74	Development of an Efficient Biosensor for the In Vivo Monitoring of Cu <sup>2+</sup> and pH in the Brain: Rational Design and Synthesis of Recognition Molecules. <i>Angewandte Chemie</i> , 2017, 129, 16546-16550.	1.6	30
75	Bioinspired Multivalent Peptide Nanotubes for Sialic Acid Targeting and Imaging-Guided Treatment of Metastatic Melanoma. <i>Small</i> , 2019, 15, e1900157.	5.2	30
76	Direct electron transfer of superoxide dismutase promoted by high conductive TiO <sub>2</sub> nanoneedles. <i>Electrochemistry Communications</i> , 2009, 11, 174-176.	2.3	29
77	In Situ Synthesized Silver Nanoclusters for Tracking the Role of Telomerase Activity in the Differentiation of Mesenchymal Stem Cells to Neural Stem Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 2051-2057.	4.0	29
78	Stochastic DNA Walkers in Droplets for Supermultiplexed Bacterial Phenotype Detection. <i>Angewandte Chemie</i> , 2019, 131, 15594-15600.	1.6	29
79	Time-Resolved Encryption via a Kinetics-Tunable Supramolecular Photochromic System. <i>Advanced Science</i> , 2022, 9, e2104790.	5.6	29
80	Real-Time Monitoring of Neurotransmitters in the Brain of Living Animals. <i>ACS Applied Materials &amp; Interfaces</i> , 2023, 15, 138-157.	4.0	29
81	A novel two-photon ratiometric fluorescent probe for imaging and sensing of BACE1 in different regions of AD mouse brain. <i>Chemical Science</i> , 2020, 11, 2215-2224.	3.7	27
82	Surface-enhanced Raman Scattering on 2D Nanomaterials: Recent Developments and Applications. <i>Chinese Journal of Chemistry</i> , 2021, 39, 745-756.	2.6	27
83	Label-Free Electrochemical Biosensor for Monitoring of Chloride Ion in an Animal Model of Alzheimer's Disease. <i>ACS Chemical Neuroscience</i> , 2017, 8, 339-346.	1.7	26
84	Glycopeptide Nanofiber Platform for A $\beta$ <sup>2</sup> -Sialic Acid Interaction Analysis and Highly Sensitive Detection of A $\beta$ <sup>2</sup> . <i>Analytical Chemistry</i> , 2019, 91, 8129-8136.	3.2	26
85	Programming Biomimetically Confined Aptamers with DNA Frameworks. <i>ACS Nano</i> , 2020, 14, 8776-8783.	7.3	26
86	An electrochemical strategy for fast monitoring of H <sub>2</sub> O <sub>2</sub> released from live cells at an electroactive FcHT-functional surface amplified by Au nanoparticles. <i>Chemical Communications</i> , 2013, 49, 1279.	2.2	24
87	Fluorescence Lifetime Imaging of p-tau Protein in Single Neuron with a Highly Selective Fluorescent Probe. <i>Analytical Chemistry</i> , 2019, 91, 3294-3301.	3.2	24
88	I-motif Formed at Physiological pH Triggered by Spatial Confinement of Nanochannels: An Electrochemical Platform for pH Monitoring in Brain Microdialysates. <i>Analytical Chemistry</i> , 2020, 92, 4535-4540.	3.2	24
89	Recent advances in development of devices and probes for sensing and imaging in the brain. <i>Science China Chemistry</i> , 2021, 64, 915-931.	4.2	24
90	A Liquid Interfacial SERS Platform on a Nanoparticle Array Stabilized by Rigid Probes for the Quantification of Norepinephrine in Rat Brain Microdialysates. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	24

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91	Horseradish peroxidase-mediated <i>in situ</i> forming hydrogels from degradable tyramine-based poly(amido amine)s. <i>Journal of Applied Polymer Science</i> , 2013, 127, 40-48.	1.3	22
92	An activatable near-infrared fluorescent probe for methylglyoxal imaging in Alzheimer's disease mice. <i>Chemical Communications</i> , 2020, 56, 707-710.	2.2	22
93	Electrochemical enantioselective sensor for effective recognition of tryptophan isomers based on chiral polyaniline twisted nanoribbon. <i>Analytica Chimica Acta</i> , 2021, 1147, 155-164.	2.6	22
94	An integrated platform for the capture of circulating tumor cells and <i>in situ</i> SERS profiling of membrane proteins through rational spatial organization of multi-functional cyclic RGD nanopatterns. <i>Chemical Communications</i> , 2019, 55, 1730-1733.	2.2	21
95	A Highly Stable Two-Photon Ratiometric Fluorescence Probe for Real-Time Biosensing and Imaging of Nitric Oxide in Brain Tissues and Larval Zebrafish. <i>CCS Chemistry</i> , 2022, 4, 2020-2030.	4.6	20
96	An Electrochemical Biosensor with Dual Signal Outputs: Toward Simultaneous Quantification of pH and O <sub>2</sub> in the Brain upon Ischemia and in a Tumor during Cancer Starvation Therapy. <i>Angewandte Chemie</i> , 2017, 129, 10607-10611.	1.6	19
97	A ratiometric electrochemical strategy for sensitive determination of Furin activity based on dual signal amplification and antifouling nanosurfaces. <i>Analyst</i> , 2017, 142, 4215-4220.	1.7	18
98	An Electrochemical Biosensor with Dual Signal Outputs for Ratiometric Monitoring the Levels of H <sub>2</sub> O <sub>2</sub> and pH in the Microdialysates from a Rat Brain. <i>Electroanalysis</i> , 2018, 30, 1047-1053.	1.5	18
99	A SERS Optophysiological Probe for the Real-Time Mapping and Simultaneous Determination of the Carbonate Concentration and pH Value in a Live Mouse Brain. <i>Angewandte Chemie</i> , 2019, 131, 5310-5314.	1.6	18
100	Raman Fiber Photometry for Understanding Mitochondrial Superoxide Burst and Extracellular Calcium Ion Influx upon Acute Hypoxia in the Brain of Freely Moving Animals. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202111630.	7.2	18
101	A two-photon ratiometric fluorescent probe for real-time imaging and quantification of NO in neural stem cells during activation regulation. <i>Chemical Science</i> , 2022, 13, 4303-4312.	3.7	18
102	Highly Stable Electrochemical Probe with Bidentate Thiols for Ratiometric Monitoring of Endogenous Polysulfide in Living Mouse Brains. <i>Analytical Chemistry</i> , 2022, 94, 1447-1455.	3.2	18
103	An enzyme-free amplification strategy based on two-photon fluorescent carbon dots for monitoring miR-9 in live neurons and brain tissues of Alzheimer's disease mice. <i>Chemical Communications</i> , 2020, 56, 8083-8086.	2.2	17
104	Analytical Application of Pyramidal, Rodlike, and Spherical Gold Nanostructures: Simultaneous Detection of Ascorbic Acid and Uric Acid. <i>Electroanalysis</i> , 2008, 20, 1227-1233.	1.5	16
105	A comprehensive study on the generation of reactive oxygen species in Cu-AT <sup>2+</sup> -catalyzed redox processes. <i>Free Radical Biology and Medicine</i> , 2019, 135, 125-131.	1.3	16
106	An Electrochemophysiological Microarray for Real-Time Monitoring and Quantification of Multiple Ions in the Brain of a Freely Moving Rat. <i>Angewandte Chemie</i> , 2020, 132, 10512-10516.	1.6	16
107	Tracking endocytosis and intracellular distribution of spherical nucleic acids with correlative single-cell imaging. <i>Nature Protocols</i> , 2021, 16, 383-404.	5.5	16
108	Nitric Oxide Prodrug Delivery and Release Monitoring Based on a Galactose-Modified Multifunctional Nanoprobe. <i>Analytical Chemistry</i> , 2021, 93, 7625-7634.	3.2	16

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109	Progress on Electrochemical Determination of Superoxide Anion. Chinese Journal of Analytical Chemistry, 2014, 42, 1-9.	0.9	15
110	Hydrogen-bonding-induced bathochromic effect of Si-coumarin and its use in monitoring adipogenic differentiation. Chemical Communications, 2019, 55, 11802-11805.	2.2	15
111	Multifunctional peptide-assembled micelles for simultaneously reducing amyloid- $\beta^2$ and reactive oxygen species. Chemical Science, 2021, 12, 6449-6457.	3.7	15
112	Selective, Rapid, and Ratiometric Fluorescence Sensing of Homocysteine in Live Neurons via a Reaction-Kinetics/Sequence-Differentiation Strategy Based on a Small Molecular Probe. ACS Sensors, 2022, 7, 1036-1044.	4.0	15
113	A novel N-doped carbon nanotube fiber for selective and reliable electrochemical determination of ascorbic acid in rat brain microdialysates. Journal of Electroanalytical Chemistry, 2016, 781, 278-283.	1.9	14
114	Electrochemical sensing platform for hydrogen peroxide using amorphous FeNiPt nanostructures. Analytical Methods, 2010, 2, 143-148.	1.3	13
115	A simple functional carbon nanotube fiber for in vivo monitoring of NO in a rat brain following cerebral ischemia. Analyst, The, 2017, 142, 1452-1458.	1.7	13
116	Functionalized hBN Nanosheets as a Theranostic Platform for SERS Real-Time Monitoring of MicroRNA and Photodynamic Therapy. Angewandte Chemie, 2019, 131, 7839-7843.	1.6	13
117	Automated Nanoplasmonic Analysis of Spherical Nucleic Acids Clusters in Single Cells. Analytical Chemistry, 2020, 92, 1333-1339.	3.2	13
118	A DNA-Based FLIM Reporter for Simultaneous Quantification of Lysosomal pH and Ca <sup>2+</sup> during Autophagy Regulation. IScience, 2020, 23, 101344.	1.9	13
119	Rational Design of Specific Recognition Molecules for Simultaneously Monitoring of Endogenous Polysulfide and Hydrogen Sulfide in the Mouse Brain. Angewandte Chemie, 2019, 131, 14086-14091.	1.6	12
120	Simultaneous Determination of Glutamate and Calcium Ion in Rat Brain during Spreading Depression and Ischemia Processes. Chinese Journal of Analytical Chemistry, 2019, 47, 347-354.	0.9	12
121	Exogenous A $\beta$ <sup>21-42</sup> monomers improve synaptic and cognitive function in Alzheimer's disease model mice. Neuropharmacology, 2022, 209, 109002.	2.0	12
122	A ratiometric fluorescent DNA nanoprobe for cerebral adenosine triphosphate assay. Chemical Communications, 2019, 55, 9955-9958.	2.2	11
123	Noninvasive In Situ Ratiometric Imaging of Biometals Based on Self-Assembled Peptide Nanoribbon. Analytical Chemistry, 2020, 92, 5838-5845.	3.2	11
124	Toward Food Freshness Monitoring: Coordination Binding-Based Colorimetric Sensor Array for Sulfur-Containing Amino Acids. Frontiers in Chemistry, 2021, 9, 685783.	1.8	11
125	A Robust Au@C Functionalized Surface: Toward Real-Time Mapping and Accurate Quantification of Fe <sup>2+</sup> in the Brains of Live AD Mouse Models. Angewandte Chemie, 2020, 132, 20680-20688.	1.6	10
126	Surface-enhanced Raman Scattering Technology Based on WO <sub>3</sub> Film for Detection of VEGF. Chemical Research in Chinese Universities, 2021, 37, 900-905.	1.3	10



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127	Electrochemical Detection of Tyrosinase in Cell Lysates at Functionalized Nanochannels via Amplifying of Ionic Current Response. <i>Electroanalysis</i> , 2022, 34, 1021-1026.	1.5	10
128	A dual-mode nanoprobe for evaluation of the autophagy level affected by photothermal therapy. <i>Chemical Communications</i> , 2019, 55, 9673-9676.	2.2	9
129	Imaging the Redox States of Live Cells with the Time-Resolved Fluorescence of Genetically Encoded Biosensors. <i>Analytical Chemistry</i> , 2019, 91, 3869-3876.	3.2	9
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