

Yaqing Liu

List of Publications by Year in descending order

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79
papers

2,582
citations

136740

32
h-index

214527

47
g-index

82
all docs

82
docs citations

82
times ranked

2779
citing authors

#	ARTICLE	IF	CITATIONS
1	A smartphone-integrated ratiometric fluorescence sensing platform for visual and quantitative point-of-care testing of tetracycline. <i>Biosensors and Bioelectronics</i> , 2020, 148, 111791.	5.3	132
2	Highly sensitive and specific colorimetric detection of cancer cells via dual-aptamer target binding strategy. <i>Biosensors and Bioelectronics</i> , 2015, 73, 1-6.	5.3	97
3	Colorimetric Strategy for Highly Sensitive and Selective Simultaneous Detection of Histidine and Cysteine Based on G-Quadruplex-Cu(II) Metalloenzyme. <i>Analytical Chemistry</i> , 2016, 88, 2899-2903.	3.2	95
4	Label-free and enzyme-free platform for the construction of advanced DNA logic devices based on the assembly of graphene oxide and DNA-templated AgNCs. <i>Nanoscale</i> , 2016, 8, 3834-3840.	2.8	79
5	Multiple advanced logic gates made of DNA-Ag nanocluster and the application for intelligent detection of pathogenic bacterial genes. <i>Chemical Science</i> , 2018, 9, 1774-1781.	3.7	70
6	Bacteria-Triggered Multifunctional Hydrogel for Localized Chemodynamic and Low-Temperature Photothermal Sterilization. <i>Small</i> , 2021, 17, e2103303.	5.2	69
7	From Redox Gating to Quantized Charging. <i>Journal of the American Chemical Society</i> , 2010, 132, 8187-8193.	6.6	65
8	DNA-based visual majority logic gate with one-vote veto function. <i>Chemical Science</i> , 2015, 6, 1973-1978.	3.7	64
9	G-quadruplex-based ultrasensitive and selective detection of histidine and cysteine. <i>Biosensors and Bioelectronics</i> , 2013, 41, 563-568.	5.3	63
10	Supramolecular Polymer Hydrogels from Bolaamphiphilic L-Histidine and Benzene Dicarboxylic Acids: Thixotropy and Significant Enhancement of Eu ^{III} Fluorescence. <i>Chemistry - A European Journal</i> , 2012, 18, 14650-14659.	1.7	59
11	Synthesis of phospholipid monolayer membrane functionalized graphene for drug delivery. <i>Journal of Materials Chemistry</i> , 2012, 22, 20634.	6.7	58
12	Self-Assembled Supramolecular Nanotube Yarn. <i>Advanced Materials</i> , 2013, 25, 5875-5879.	11.1	58
13	Nanozyme-based bio-barcode assay for high sensitive and logic-controlled specific detection of multiple DNAs. <i>Biosensors and Bioelectronics</i> , 2017, 94, 471-477.	5.3	58
14	Tumor-Microenvironment-Induced All-in-One Nanoplatform for Multimodal Imaging-Guided Chemical and Photothermal Therapy of Cancer. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 25043-25053.	4.0	57
15	A single fluorophore ratiometric nanosensor based on dual-emission DNA-templated silver nanoclusters for ultrasensitive and selective Pb ²⁺ detection. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 712-718.	4.0	57
16	Integrated SERS Platform for Reliable Detection and Photothermal Elimination of Bacteria in Whole Blood Samples. <i>Analytical Chemistry</i> , 2021, 93, 1569-1577.	3.2	55
17	An Electrochemically Transduced XOR Logic Gate at the Molecular Level. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2595-2598.	7.2	53
18	Implementation of half adder and half subtractor with a simple and universal DNA-based platform. <i>NPG Asia Materials</i> , 2013, 5, e76-e76.	3.8	53

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19	A Resettable and Reprogrammable DNA-Based Security System To Identify Multiple Users with Hierarchy. <i>ACS Nano</i> , 2014, 8, 2796-2803.	7.3	53
20	A ratiometric fluorescent biosensor based on cascaded amplification strategy for ultrasensitive detection of kanamycin. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 1495-1500.	4.0	50
21	An aptamer-based keypad lock system. <i>Chemical Communications</i> , 2012, 48, 802-804.	2.2	49
22	Application of DNA machine in amplified DNA detection. <i>Chemical Communications</i> , 2014, 50, 704-706.	2.2	48
23	Cascaded multiple amplification strategy for ultrasensitive detection of HIV/HCV virus DNA. <i>Biosensors and Bioelectronics</i> , 2017, 87, 116-121.	5.3	46
24	A smartphone-integrated paper sensing system for fluorescent and colorimetric dual-channel detection of foodborne pathogenic bacteria. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 611-620.	1.9	46
25	Multifunctional nanoplatform for dual-mode sensitive detection of pathogenic bacteria and the real-time bacteria inactivation. <i>Biosensors and Bioelectronics</i> , 2021, 173, 112789.	5.3	44
26	Copper(ii) ion selective and strong acid-tolerable hydrogels formed by an l-histidine ester terminated bolaamphiphile: from single molecular thick nanofibers to single-wall nanotubes. <i>Chemical Communications</i> , 2013, 49, 4767.	2.2	42
27	Integration of graphene oxide and DNA as a universal platform for multiple arithmetic logic units. <i>Chemical Communications</i> , 2014, 50, 14390-14393.	2.2	41
28	Supramolecular Chirality of the Two-Component Supramolecular Copolymer Gels: Who Determines the Handedness?. <i>Langmuir</i> , 2016, 32, 322-328.	1.6	37
29	An Ultrasensitive Fluorescence Sensor with Simple Operation for Cu ²⁺ Specific Detection in Drinking Water. <i>ACS Omega</i> , 2018, 3, 3045-3050.	1.6	35
30	Scanned probe oxidation on an octadecyl-terminated silicon (111) surface with an atomic force microscope: kinetic investigations in line patterning. <i>Nanotechnology</i> , 2006, 17, 330-337.	1.3	33
31	DNA-based advanced logic circuits for nonarithmetic information processing. <i>NPG Asia Materials</i> , 2015, 7, e166-e166.	3.8	33
32	Implementation of Arithmetic Functions on a Simple and Universal Molecular Beacon Platform. <i>Advanced Science</i> , 2015, 2, 1500054.	5.6	32
33	RhB/UiO-66-N3 MOF-based ratiometric fluorescent detection and intracellular imaging of hydrogen sulfide. <i>Sensors and Actuators B: Chemical</i> , 2021, 331, 129448.	4.0	32
34	Long-Lasting Chemiluminescence-Based POCT for Portable and Visual Pathogenic Detection and In Situ Inactivation. <i>Analytical Chemistry</i> , 2022, 94, 8382-8391.	3.2	32
35	An enzyme-free and DNA-based Feynman gate for logically reversible operation. <i>Chemical Communications</i> , 2015, 51, 10284-10286.	2.2	31
36	Enzyme-free and DNA-based multiplexer and demultiplexer. <i>Chemical Communications</i> , 2015, 51, 15940-15943.	2.2	31

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37	A DNA-Based and Electrochemically Transduced Keypad Lock System with Reset Function. <i>Chemistry - A European Journal</i> , 2012, 18, 14939-14942.	1.7	30
38	A multifunctional plasmonic chip for bacteria capture, imaging, detection, and <i>in situ</i> elimination for wound therapy. <i>Nanoscale</i> , 2020, 12, 6489-6497.	2.8	28
39	Electrochemical current rectifier as a highly sensitive and selective cytosensor for cancer cell detection. <i>Chemical Communications</i> , 2012, 48, 2594.	2.2	26
40	DNA-templated Ag nanoclusters as signal transducers for a label-free and resettable keypad lock. <i>Chemical Communications</i> , 2013, 49, 3107.	2.2	26
41	A conductive polyacrylamide hydrogel enabled by dispersion-enhanced MXene@chitosan assembly for highly stretchable and sensitive wearable skin. <i>Journal of Materials Chemistry B</i> , 2021, 9, 8862-8870.	2.9	25
42	Metabolism-Triggered Colorimetric Sensor Array for Fingerprinting and Antibiotic Susceptibility Testing of Bacteria. <i>Analytical Chemistry</i> , 2022, 94, 6957-6966.	3.2	24
43	Integration of DNA and graphene oxide for the construction of various advanced logic circuits. <i>Nanoscale</i> , 2016, 8, 17524-17531.	2.8	23
44	Engineering a universal and label-free evaluation method for mycotoxins detection based on strand displacement amplification and G-quadruplex signal amplification. <i>Sensors and Actuators B: Chemical</i> , 2018, 256, 573-579.	4.0	23
45	Chemical-tongue sensor array for determination of multiple metal ions based on trichromatic lanthanide-based nanomaterials. <i>Sensors and Actuators B: Chemical</i> , 2021, 343, 130107.	4.0	23
46	Single Probe-Based Chemical-Tongue Sensor Array for Multiple Bacterial Identification and Photothermal Sterilization in Real Time. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 7706-7716.	4.0	23
47	Kinetics of Atomic Force Microscope-Based Scanned Probe Oxidation on an Octadecylated Silicon(111) Surface. <i>Journal of Physical Chemistry B</i> , 2006, 110, 10365-10373.	1.2	22
48	Electrochemical current rectification at bio-functionalized electrodes. <i>Bioelectrochemistry</i> , 2010, 77, 89-93.	2.4	21
49	A hierarchical cobalt/carbon nanotube hybrid nanocomplex-based ratiometric fluorescent nanosensor for ultrasensitive detection of hydrogen peroxide and glucose in human serum. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 1517-1524.	1.9	20
50	Transistor Functions Based on Electrochemical Rectification. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4029-4032.	7.2	18
51	A target-induced logically reversible logic gate for intelligent and rapid detection of pathogenic bacterial genes. <i>Chemical Communications</i> , 2018, 54, 3110-3113.	2.2	16
52	Direct patterning of negative nanostructures on self-assembled monolayers of 16-mercaptohexadecanoic acid on Au(111) substrate via dip-pen nanolithography. <i>Nanotechnology</i> , 2006, 17, 5378-5386.	1.3	15
53	Discovered triethylamine as impurity in synthetic DNAs for and by electrochemiluminescence techniques. <i>Talanta</i> , 2013, 116, 308-314.	2.9	15
54	Target-induced DNA machine amplification strategy for high sensitive and selective detection of biotoxin. <i>Sensors and Actuators B: Chemical</i> , 2018, 262, 619-624.	4.0	15

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55	Fe ³⁺ -Coordination mediated synergistic dual-network conductive hydrogel as a sensitive and highly-stretchable strain sensor with adjustable mechanical properties. <i>Journal of Materials Chemistry B</i> , 2022, 10, 1442-1452.	2.9	14
56	Rectified tunneling current response of bio-functionalized metal-bridge-metal junctions. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1173-1178.	5.3	13
57	Implementation of cascade logic gates and majority logic gate on a simple and universal molecular platform. <i>Scientific Reports</i> , 2017, 7, 14014.	1.6	13
58	A MnO ₂ nanosheet-based ratiometric fluorescent nanosensor with single excitation for rapid and specific detection of ascorbic acid. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 4093-4101.	1.9	13
59	Sugar-metabolism-triggered pathogenic bacteria identification based on pH-sensitive fluorescent carbon dots. <i>Sensors and Actuators B: Chemical</i> , 2020, 316, 128063.	4.0	13
60	A Asp/Ce nanotube-based colorimetric nanosensor for H ₂ O ₂ -free and enzyme-free detection of cysteine. <i>Talanta</i> , 2019, 196, 556-562.	2.9	12
61	Smartphone-based enzyme-free fluorescence sensing of organophosphate DDVP. <i>Mikrochimica Acta</i> , 2020, 187, 419.	2.5	12
62	Biocompatible conductive architecture with surface-confined probe for non-invasive electrochemical cytosensing. <i>Electrochemistry Communications</i> , 2012, 18, 81-84.	2.3	11
63	Universal Nanoplatfor for Ultrasensitive Ratiometric Fluorescence Detection and Highly Efficient Photothermal Inactivation of Pathogenic Bacteria. <i>ACS Applied Bio Materials</i> , 2021, 4, 6361-6370.	2.3	11
64	A lanthanide-based ratiometric fluorescent biosensor for the enzyme-free detection of organophosphorus pesticides. <i>Analytical Methods</i> , 2021, 13, 2005-2010.	1.3	11
65	A smartphone integrated ratiometric fluorescent sensor for point-of-care testing of fluoride ions. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 3999-4009.	1.9	11
66	Effective construction of a AuNPs-DNA system for the implementation of various advanced logic gates. <i>RSC Advances</i> , 2016, 6, 106641-106647.	1.7	10
67	A ratiometric fluorescent nanoprobe consisting of ssDNA-templated silver nanoclusters for detection of histidine/cysteine, and the construction of combinatorial logic circuits. <i>Mikrochimica Acta</i> , 2019, 186, 648.	2.5	10
68	A reusable ratiometric fluorescent biosensor with simple operation for cysteine detection in biological sample. <i>Sensors and Actuators B: Chemical</i> , 2018, 277, 415-422.	4.0	9
69	Redox mediated electron transfer behaviors at azobenzene functionalized electrode. <i>Chemical Communications</i> , 2011, 47, 8232.	2.2	8
70	In situ synthesis of Pt nanoparticles in hyperbranched thin film for electrocatalytic reduction of dioxygen. <i>Electrochimica Acta</i> , 2005, 51, 605-610.	2.6	6
71	Molecular rectification in metal-bridge molecule-metal junctions. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 891-897.	0.8	6
72	A cerium-based fluorescent nanosensor for highly specific detection of glutathione over cysteine and homocysteine. <i>Analyst</i> , 2021, 146, 283-288.	1.7	6

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73	Ratiometric fluorescence nanoplatfrom integrated with smartphone as readout device for sensing trace water. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 4267-4275.	1.9	6
74	The oasis regional small and medium lake water transparency monitoring research and impact factor analysis based on field data combined with high resolution GF-1 satellite data. <i>Journal of Freshwater Ecology</i> , 2021, 36, 77-96.	0.5	5
75	Rectification behaviors based on redox-active molecular systems. <i>Electrochemistry Communications</i> , 2011, 13, 906-908.	2.3	4
76	A reliable fluorescent and colorimetric dual-readout assay for Ag ⁺ tracing. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 268, 120696.	2.0	3
77	A multifunctional colorimetric sensor array for bacterial identification and real-time bacterial elimination to prevent bacterial contamination. <i>Analyst, The</i> , 2022, 147, 2247-2252.	1.7	2
78	Molecular Switches and Multiple Logic Gates Based on 4-(2-pyridylazo)resorcinol. <i>Chinese Journal of Chemistry</i> , 2013, 31, 721-725.	2.6	0
79	New Design for Detection Cell Applied in Magnetic Particle-Based Electrochemiluminescence Assays. <i>Electroanalysis</i> , 2014, 26, 2563-2566.	1.5	0