Yaqing Liu

List of Publications by Citations

76 papers	1,865 citations	29 h-index	40 g-index
82 ext. papers	2,189 ext. citations	7.3 avg, IF	5.15 L-index

#	Paper	IF	Citations
76	Colorimetric Strategy for Highly Sensitive and Selective Simultaneous Detection of Histidine and Cysteine Based on G-Quadruplex-Cu(II) Metalloenzyme. *Analytical Chemistry*, **2016**, 88, 2899-903	7.8	87
75	Highly sensitive and specific colorimetric detection of cancer cells via dual-aptamer target binding strategy. *Biosensors and Bioelectronics*, **2015**, 73, 1-6	11.8	83
74	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. *Nanoscale*, **2016**, 8, 3834-40	7.7	70
73	From redox gating to quantized charging. *Journal of the American Chemical Society*, **2010**, 132, 8187-93	16.4	61
72	A smartphone-integrated ratiometric fluorescence sensing platform for visual and quantitative point-of-care testing of tetracycline. *Biosensors and Bioelectronics*, **2020**, 148, 111791	11.8	60
71	DNA-based visual majority logic gate with one-vote veto function. *Chemical Science*, **2015**, 6, 1973-1978	9.4	59
70	G-quadruplex-based ultrasensitive and selective detection of histidine and cysteine. *Biosensors and Bioelectronics*, **2013**, 41, 563-8	11.8	58
69	Supramolecular polymer hydrogels from bolaamphiphilic L-histidine and benzene dicarboxylic acids: thixotropy and significant enhancement of Eu(III) fluorescence. *Chemistry - A European Journal*, **2012**, 18, 14650-9	4.8	54
68	Self-assembled supramolecular nanotube yarn. *Advanced Materials*, **2013**, 25, 5875-9	24	52
67	Synthesis of phospholipid monolayer membrane functionalized graphene for drug delivery. *Journal of Materials Chemistry*, **2012**, 22, 20634		51
66	An electrochemically transduced XOR logic gate at the molecular level. *Angewandte Chemie - International Edition*, **2010**, 49, 2595-8	16.4	51
65	Multiple advanced logic gates made of DNA-Ag nanocluster and the application for intelligent detection of pathogenic bacterial genes. *Chemical Science*, **2018**, 9, 1774-1781	9.4	49
64	Implementation of half adder and half subtractor with a simple and universal DNA-based platform. *NPG Asia Materials*, **2013**, 5, e76-e76	10.3	49
63	A resettable and reprogrammable DNA-based security system to identify multiple users with hierarchy. *ACS Nano*, **2014**, 8, 2796-803	16.7	48
62	Application of DNA machine in amplified DNA detection. *Chemical Communications*, **2014**, 50, 704-6	5.8	48
61	An aptamer-based keypad lock system. *Chemical Communications*, **2012**, 48, 802-4	5.8	47
60	A single fluorophore ratiometric nanosensor based on dual-emission DNA-templated silver nanoclusters for ultrasensitive and selective Pb2+ detection. *Sensors and Actuators B: Chemical*, **2019**, 282, 712-718	8.5	40

59	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. *Chemical Communications*, **2013**, 49, 4767-9	5.8	39
58	Nanozyme-based bio-barcode assay for high sensitive and logic-controlled specific detection of multiple DNAs. *Biosensors and Bioelectronics*, **2017**, 94, 471-477	11.8	38
57	Integration of graphene oxide and DNA as a universal platform for multiple arithmetic logic units. *Chemical Communications*, **2014**, 50, 14390-3	5.8	38
56	A ratiometric fluorescent biosensor based on cascaded amplification strategy for ultrasensitive detection of kanamycin. *Sensors and Actuators B: Chemical*, **2018**, 273, 1495-1500	8.5	36
55	Tumor-Microenvironment-Induced All-in-One Nanoplatform for Multimodal Imaging-Guided Chemical and Photothermal Therapy of Cancer. *ACS Applied Materials & Interfaces*, **2019**, 11, 25043-25053	9.5	33
54	Cascaded multiple amplification strategy for ultrasensitive detection of HIV/HCV virus DNA. *Biosensors and Bioelectronics*, **2017**, 87, 116-121	11.8	33
53	Supramolecular Chirality of the Two-Component Supramolecular Copolymer Gels: Who Determines the Handedness?. *Langmuir*, **2016**, 32, 322-8	4	32
52	Scanned probe oxidation on an octadecyl-terminated silicon (111) surface with an atomic force microscope: kinetic investigations in line patterning. *Nanotechnology*, **2006**, 17, 330-337	3.4	32
51	Implementation of Arithmetic Functions on a Simple and Universal Molecular Beacon Platform. *Advanced Science*, **2015**, 2, 1500054	13.6	31
50	An enzyme-free and DNA-based Feynman gate for logically reversible operation. *Chemical Communications*, **2015**, 51, 10284-6	5.8	30
49	DNA-based advanced logic circuits for nonarithmetic information processing. *NPG Asia Materials*, **2015**, 7, e166-e166	10.3	30
48	A DNA-based and electrochemically transduced keypad lock system with reset function. *Chemistry - A European Journal*, **2012**, 18, 14939-42	4.8	30
47	Enzyme-free and DNA-based multiplexer and demultiplexer. *Chemical Communications*, **2015**, 51, 15940-3	5.8	29
46	DNA-templated Ag nanoclusters as signal transducers for a label-free and resettable keypad lock. *Chemical Communications*, **2013**, 49, 3107-9	5.8	25
45	Electrochemical current rectifier as a highly sensitive and selective cytosensor for cancer cell detection. *Chemical Communications*, **2012**, 48, 2594-6	5.8	23
44	An Ultrasensitive Fluorescence Sensor with Simple Operation for Cu Specific Detection in Drinking Water. *ACS Omega*, **2018**, 3, 3045-3050	3.9	22
43	Integration of DNA and graphene oxide for the construction of various advanced logic circuits. *Nanoscale*, **2016**, 8, 17524-17531	7.7	21
42	Electrochemical current rectification at bio-functionalized electrodes. *Bioelectrochemistry*, **2010**, 77, 89-93	5.6	21

41	Kinetics of atomic force microscope-based scanned probe oxidation on an octadecylated silicon(111) surface. *Journal of Physical Chemistry B*, **2006**, 110, 10365-73	3.4	21
40	Integrated SERS Platform for Reliable Detection and Photothermal Elimination of Bacteria in Whole Blood Samples. *Analytical Chemistry*, **2021**, 93, 1569-1577	7.8	21
39	A smartphone-integrated paper sensing system for fluorescent and colorimetric dual-channel detection of foodborne pathogenic bacteria. *Analytical and Bioanalytical Chemistry*, **2020**, 412, 611-620	4.4	20
38	An Electrochemically Transduced XOR Logic Gate at the Molecular Level. *Angewandte Chemie*, **2010**, 122, 2649-2652	3.6	19
37	Transistor functions based on electrochemical rectification. *Angewandte Chemie - International Edition*, **2013**, 52, 4029-32	16.4	18
36	A target-induced logically reversible logic gate for intelligent and rapid detection of pathogenic bacterial genes. *Chemical Communications*, **2018**, 54, 3110-3113	5.8	16
35	Engineering a universal and label-free evaluation method for mycotoxins detection based on strand displacement amplification and G-quadruplex signal amplification. *Sensors and Actuators B: Chemical*, **2018**, 256, 573-579	8.5	15
34	Multifunctional nanoplatform for dual-mode sensitive detection of pathogenic bacteria and the real-time bacteria inactivation. *Biosensors and Bioelectronics*, **2020**, 173, 112789	11.8	15
33	A multifunctional plasmonic chip for bacteria capture, imaging, detection, and in situ elimination for wound therapy. *Nanoscale*, **2020**, 12, 6489-6497	7.7	13
32	Rectified tunneling current response of bio-functionalized metal-bridge-metal junctions. *Biosensors and Bioelectronics*, **2010**, 25, 1173-8	11.8	13
31	Direct patterning of negative nanostructures on self-assembled monolayers of 16-mercaptohexadecanoic acid on Au(111) substrate via dip-pen nanolithography. *Nanotechnology*, **2006**, 17, 5378-5386	3.4	13
30	A hierarchical cobalt/carbon nanotube hybrid nanocomplex-based ratiometric fluorescent nanosensor for ultrasensitive detection of hydrogen peroxide and glucose in human serum. *Analytical and Bioanalytical Chemistry*, **2019**, 411, 1517-1524	4.4	13
29	Implementation of cascade logic gates and majority logic gate on a simple and universal molecular platform. *Scientific Reports*, **2017**, 7, 14014	4.9	10
28	Effective construction of a AuNPs□DNA system for the implementation of various advanced logic gates. *RSC Advances*, **2016**, 6, 106641-106647	3.7	10
27	Bacteria-Triggered Multifunctional Hydrogel for Localized Chemodynamic and Low-Temperature Photothermal Sterilization. *Small*, **2021**, e2103303	11	10
26	RhB/UiO-66-N3 MOF-based ratiometric fluorescent detection and intracellular imaging of hydrogen sulfide. *Sensors and Actuators B: Chemical*, **2021**, 331, 129448	8.5	10
25	A ratiometric fluorescent nanoprobe consisting of ssDNA-templated silver nanoclusters□for detection of histidine/cysteine, and the□construction of combinatorial logic circuits. *Mikrochimica Acta*, **2019**, 186, 648	5.8	9
24	Target-induced DNA machine amplification strategy for high sensitive and selective detection of biotoxin. *Sensors and Actuators B: Chemical*, **2018**, 262, 619-624	8.5	9

23	Biocompatible conductive architecture with surface-confined probe for non-invasive electrochemical cytosensing. *Electrochemistry Communications*, **2012**, 18, 81-84	5.1	9
22	A Asp/Ce nanotube-based colorimetric nanosensor for HO-free and enzyme-free detection of cysteine. *Talanta*, **2019**, 196, 556-562	6.2	9
21	Discovered triethylamine as impurity in synthetic DNAs for and by electrochemiluminescence techniques. *Talanta*, **2013**, 116, 308-14	6.2	8
20	Redox mediated electron transfer behaviors at azobenzene functionalized electrode. *Chemical Communications*, **2011**, 47, 8232-4	5.8	8
19	A reusable ratiometric fluorescent biosensor with simple operation for cysteine detection in biological sample. *Sensors and Actuators B: Chemical*, **2018**, 277, 415-422	8.5	7
18	Smartphone-based enzyme-free fluorescence sensing of organophosphate DDVP. *Mikrochimica Acta*, **2020**, 187, 419	5.8	6
17	A MnO nanosheet-based ratiometric fluorescent nanosensor with single excitation for rapid and specific detection of ascorbic acid. *Analytical and Bioanalytical Chemistry*, **2019**, 411, 4093-4101	4.4	6
16	Chemical-tongue sensor array for determination of multiple metal ions based on trichromatic lanthanide-based nanomaterials. *Sensors and Actuators B: Chemical*, **2021**, 343, 130107	8.5	6
15	Molecular rectification in metal□bridge molecule□metal junctions. *Physica Status Solidi (A) Applications and Materials Science*, **2010**, 207, 891-897	1.6	5
14	In situ synthesis of Pt nanoparticles in hyperbranched thin film for electrocatalytic reduction of dioxygen. *Electrochimica Acta*, **2005**, 51, 605-610	6.7	5
13	Sugar-metabolism-triggered pathogenic bacteria identification based on pH-sensitive fluorescent carbon dots. *Sensors and Actuators B: Chemical*, **2020**, 316, 128063	8.5	4
12	Ein elektrochemischer Gleichrichter ermöglicht Transistorfunktionen. *Angewandte Chemie*, **2013**, 125, 4121-4124	3.6	4
11	A conductive polyacrylamide hydrogel enabled by dispersion-enhanced MXene@chitosan assembly for highly stretchable and sensitive wearable skin. *Journal of Materials Chemistry B*, **2021**, 9, 8862-8870	7.3	4
10	Rectification behaviors based on redox-active molecular systems. *Electrochemistry Communications*, **2011**, 13, 906-908	5.1	3
9	A cerium-based fluorescent nanosensor for highly specific detection of glutathione over cysteine and homocysteine. *Analyst, The*, **2021**, 146, 283-288	5	3
8	A lanthanide-based ratiometric fluorescent biosensor for the enzyme-free detection of organophosphorus pesticides. *Analytical Methods*, **2021**, 13, 2005-2010	3.2	3
7	Ratiometric fluorescence nanoplatform integrated with smartphone as readout device for sensing trace water. *Analytical and Bioanalytical Chemistry*, **2021**, 413, 4267-4275	4.4	1
6	Universal Nanoplatform for Ultrasensitive Ratiometric Fluorescence Detection and Highly Efficient Photothermal Inactivation of Pathogenic Bacteria.. *ACS Applied Bio Materials*, **2021**, 4, 6361-6370	4.1	1

5	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. *Journal of Freshwater Ecology*, **2021**, 36, 77-96	1.4	1
4	A smartphone integrated ratiometric fluorescent sensor for point-of-care testing of fluoride ions.. *Analytical and Bioanalytical Chemistry*, **2022**, 1	4.4	1
3	New Design forDetection Cell Applied in Magnetic Particle-Based Electrochemiluminescence Assays. *Electroanalysis*, **2014**, 26, 2563-2566	3	
2	Molecular Switches and Multiple Logic Gates Based on 4-(2-Pyridylazo)resorcinol. *Chinese Journal of Chemistry*, **2013**, 31, 721-725	4.9	
1	A reliable fluorescent and colorimetric dual-readout assay for Ag tracing.. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2021**, 268, 120696	4.4	