Libing Zhang

List of Publications by Citations

38 papers	2,792 citations	26 h-index	38 g-index
38 ext. papers	3,063 ext. citations	10.6 avg, IF	5.46 L-index

#	Paper	IF	Citations
38	Metal nanoclusters: New fluorescent probes for sensors and bioimaging. *Nano Today*, **2014**, 9, 132-157	17.9	700
37	Carbon nanotube-DNA hybrid fluorescent sensor for sensitive and selective detection of mercury(II) ion. *Chemical Communications*, **2010**, 46, 1476-8	5.8	258
36	Photoinduced electron transfer of DNA/Ag nanoclusters modulated by G-quadruplex/hemin complex for the construction of versatile biosensors. *Journal of the American Chemical Society*, **2013**, 135, 2403-6	16.4	228
35	Ion-tuned DNA/Ag fluorescent nanoclusters as versatile logic device. *ACS Nano*, **2011**, 5, 6334-8	16.7	167
34	Enzyme-free unlabeled DNA logic circuits based on toehold-mediated strand displacement and split G-quadruplex enhanced fluorescence. *Advanced Materials*, **2013**, 25, 2440-4	24	129
33	A new approach to light up DNA/Ag nanocluster-based beacons for bioanalysis. *Chemical Science*, **2013**, 4, 4004	9.4	102
32	Bifunctional colorimetric oligonucleotide probe based on a G-quadruplex DNAzyme molecular beacon. *Analytical Chemistry*, **2011**, 83, 8871-6	7.8	90
31	Four-way junction-driven DNA strand displacement and its application in building majority logic circuit. *ACS Nano*, **2013**, 7, 10211-7	16.7	88
30	Multifunctional quantum dot DNA hydrogels. *Nature Communications*, **2017**, 8, 381	17.4	80
29	A carbon nanotubes based ATP apta-sensing platform and its application in cellular assay. *Biosensors and Bioelectronics*, **2010**, 25, 1897-901	11.8	69
28	Label-free DNAzyme-based fluorescing molecular switch for sensitive and selective detection of lead ions. *Chemical Communications*, **2011**, 47, 3099-101	5.8	67
27	G-quadruplex DNAzyme based molecular catalytic beacon for label-free colorimetric logic gates. *Biomaterials*, **2011**, 32, 7318-24	15.6	66
26	A label-free, G-quadruplex DNAzyme-based fluorescent probe for signal-amplified DNA detection and turn-on assay of endonuclease. *Biosensors and Bioelectronics*, **2012**, 34, 100-5	11.8	63
25	Label-free G-quadruplex-specific fluorescent probe for sensitive detection of copper(II) ion. *Biosensors and Bioelectronics*, **2013**, 39, 268-73	11.8	59
24	Aptamer-based sensing platform using three-way DNA junction-driven strand displacement and its application in DNA logic circuit. *Analytical Chemistry*, **2014**, 86, 312-6	7.8	55
23	G-quadruplex enhanced fluorescence of DNA-silver nanoclusters and their application in bioimaging. *Nanoscale*, **2015**, 7, 13224-9	7.7	50
22	How to split a G-quadruplex for DNA detection: new insight into the formation of DNA split G-quadruplex. *Chemical Science*, **2015**, 6, 4822-4827	9.4	48

21	Paper-based solid-state electrochemiluminescence sensor using poly(sodium 4-styrenesulfonate) functionalized graphene/nafion composite film. *Analytica Chimica Acta*, **2013**, 763, 20-7	6.6	46
20	G-quadruplex-based fluorescent assay of S1 nuclease activity and K+. *Analytical Chemistry*, **2013**, 85, 2431-8	7.8	46
19	Three-Dimensional Nanostructured Architectures Enable Efficient Neural Differentiation of Mesenchymal Stem Cells via Mechanotransduction. *Nano Letters*, **2018**, 18, 7188-7193	11.5	44
18	Pd nanowires as new biosensing materials for magnified fluorescent detection of nucleic acid. *Analytical Chemistry*, **2012**, 84, 3568-73	7.8	43
17	A visible multi-digit DNA keypad lock based on split G-quadruplex DNAzyme and silver microspheres. *Chemical Communications*, **2013**, 49, 5459-61	5.8	40
16	Engineering DNA Three-Way Junction with Multifunctional Moieties: Sensing Platform for Bioanalysis. *Analytical Chemistry*, **2015**, 87, 11295-300	7.8	38
15	Molecular aptamer beacon tuned DNA strand displacement to transform small molecules into DNA logic outputs. *Chemical Communications*, **2014**, 50, 3321-3	5.8	37
14	Measurement of the base number of DNA using a special calliper made of a split G-quadruplex. *Chemical Communications*, **2012**, 48, 11990-2	5.8	26
13	Programmable Metal/Semiconductor Nanostructures for mRNA-Modulated Molecular Delivery. *Nano Letters*, **2018**, 18, 6222-6228	11.5	26
12	Regioselective magnetization in semiconducting nanorods. *Nature Nanotechnology*, **2020**, 15, 192-197	28.7	25
11	Solid-state electrochemiluminescence sensor based on the Nafion/poly(sodium 4-styrene sulfonate) composite film. *Talanta*, **2009**, 79, 454-9	6.2	25
10	Potential-Responsive Surfaces for Manipulation of Cell Adhesion, Release, and Differentiation. *Angewandte Chemie - International Edition*, **2019**, 58, 14519-14523	16.4	23
9	Ultrasensitive and rapid quantification of rare tumorigenic stem cells in hPSC-derived cardiomyocyte populations. *Science Advances*, **2020**, 6, eaay7629	14.3	14
8	Portable, universal, and visual ion sensing platform based on the light emitting diode-based self-referencing-ion selective field-effect transistor. *Analytical Chemistry*, **2014**, 86, 1380-4	7.8	11
7	Curvature-Mediated Surface Accessibility Enables Ultrasensitive Electrochemical Human Methyltransferase Analysis. *ACS Sensors*, **2018**, 3, 1765-1772	9.2	8
6	G-quadruplex DNA/protoporphyrin IX-based synergistic platform for targeted photodynamic cancer therapy. *Talanta*, **2015**, 134, 298-304	6.2	7
5	A nanochannel based on-line universal logic ion sensing platform. *Nanoscale*, **2013**, 5, 8221-6	7.7	6
4	Peptide-Functionalized Nanostructured Microarchitectures Enable Rapid Mechanotransductive Differentiation. *ACS Applied Materials & Interfaces*, **2019**, 11, 41030-41037	9.5	5

3	Potential-Responsive Surfaces for Manipulation of Cell Adhesion, Release, and Differentiation. *Angewandte Chemie*, **2019**, 131, 14661-14665	3.6	2
2	Near-Infrared Small Molecule as a Specific Fluorescent Probe for Ultrasensitive Recognition of Antiparallel Human Telomere G-Quadruplexes. *ACS Applied Materials & Interfaces*, **2021**, 13, 32743-32752	9.5	1
1	DNA-functionalized metal-organic framework ratiometric nanoprobe for MicroRNA detection and imaging in live cells. *Sensors and Actuators B: Chemical*, **2022**, 361, 131676	8.5	0