Dong-Xia Wang

List of Publications by Year
in descending order

18 papers	685 citations	840776 11 h-index	839539 18 g-index
18 all docs	18 docs citations	18 times ranked	525 citing authors

#	Article	IF	Citations
1	Three-dimensional DNA nanostructures to improve the hyperbranched hybridization chain reaction. Chemical Science, 2019, 10, 9758-9767.	7.4	124
2	DNA nanostructure-based nucleic acid probes: construction and biological applications. Chemical Science, 2021, 12, 7602-7622.	7.4	74
3	Signal amplification and output of CRISPR/Cas-based biosensing systems: A review. Analytica Chimica Acta, 2021, 1185, 338882.	5.4	69
4	CRISPR/Cas12a-based dual amplified biosensing system for sensitive and rapid detection of polynucleotide kinase/phosphatase. Biosensors and Bioelectronics, 2020, 168, 112556.	10.1	68
5	Dinuclear Hg^{II} tetracarbene complex-triggered aggregation-induced emission for rapid and selective sensing of Hg²⁺ and organomercury species. Chemical Science, 2019, 10, 4220-4226.	7.4	66
6	Terminal deoxynucleotidyl transferase combined CRISPR-Cas12a amplification strategy for ultrasensitive detection of uracil-DNA glycosylase with zero background. Biosensors and Bioelectronics, 2021, 171, 112734.	10.1	66
7	Highly Integrated, Biostable, and Self-Powered DNA Motor Enabling Autonomous Operation in Living Bodies. Analytical Chemistry, 2019, 91, 5244-5251.	6.5	58
8	MnO₂ nanosheets as a carrier and accelerator for improved live-cell biosensing application of CRISPR/Cas12a. Chemical Science, 2022, 13, 4364-4371.	7.4	39
9	Nanolantern-Based DNA Probe and Signal Amplifier for Tumor-Related Biomarker Detection in Living Cells. Analytical Chemistry, 2019, 91, 13165-13173.	6.5	33
10	Green Layer-by-Layer Assembly of Porphyrin/G-Quadruplex-Based Near-Infrared Nanocomposite Photosensitizer with High Biocompatibility and Bioavailability. ACS Applied Materials & Interfaces, 2020, 12, 7575-7585.	8.0	22
11	DNA nanolantern-mediated catalytic hairpin assembly nanoamplifiers for simultaneous detection of multiple microRNAs. Talanta, 2022, 236, 122846.	5.5	17
12	â€œRESETâ€•Effect: Random Extending Sequences Enhance the Trans-Cleavage Activity of CRISPR/Cas12a. Analytical Chemistry, 2022, 94, 8050-8057.	6.5	11
13	DNA nanolantern-based split aptamer probes for in situ ATP imaging in living cells and lighting up mitochondria. Analyst, The, 2021, 146, 2600-2608.	3.5	10
14	Reversible assembly/disassembly of DNA frames and applications in logic design, ratiometric sensing and bioimaging. Sensors and Actuators B: Chemical, 2021, 330, 129335.	7.8	9
15	Nonenzymatic catalytic assembly of valency-controlled DNA architectures for nanoparticles and live cell assembly. Chemical Communications, 2021, 57, 6760-6763.	4.1	7
16	Oxidative Cleavage-Based Three-Dimensional DNA Biosensor for Ratiometric Detection of Hypochlorous Acid and Myeloperoxidase. Analytical Chemistry, 2021, 93, 16231-16239.	6.5	7
17	Recent Advances in Constructing Higherâ€Order DNA Structures. Chemistry - an Asian Journal, 2022, 17, .	3.3	4
18	Recent research progress on DNA walker-based molecular machines. Scientia Sinica Chimica, 2019, 49, 776-786.	0.4	1