Bo Tian

List of Publications by Year
in descending order

23 papers	877 citations	471509 17 h-index	677142 22 g-index
24 all docs	24 docs citations	24 times ranked	1361 citing authors

#	Article	IF	Citations
1	Optomagnetic biosensors: Volumetric sensing based on magnetic actuation-induced optical modulations. Biosensors and Bioelectronics, 2022, 215, 114560.	10.1	10
2	Homogeneous circle-to-circle amplification for real-time optomagnetic detection of SARS-CoV-2 RdRp coding sequence. Biosensors and Bioelectronics, 2020, 165, 112356.	10.1	128
3	Automated on-chip analysis of tuberculosis drug-resistance mutation with integrated DNA ligation and amplification. Analytical and Bioanalytical Chemistry, 2020, 412, 2705-2710.	3.7	8
4	CRISPR-Cas12a based internal negative control for nonspecific products of exponential rolling circle amplification. Nucleic Acids Research, 2020, 48, e30-e30.	14.5	65
5	Realâ€time analysis of switchable nanocomposites of magnesium pyrophosphates and rolling circle amplification products. ChemNanoMat, 2020, 6, 1276-1282.	2.8	4
6	Nicking-assisted on-loop and off-loop enzymatic cascade amplification for optomagnetic detection of a highly conserved dengue virus sequence. Biosensors and Bioelectronics, 2020, 160, 112219.	10.1	23
7	Ultrasensitive Real-Time Rolling Circle Amplification Detection Enhanced by Nicking-Induced Tandem-Acting Polymerases. Analytical Chemistry, 2019, 91, 10102-10109.	6.5	34
8	Self-Assembled Magnetic Nanoparticleâ€“Graphene Oxide Nanotag for Optomagnetic Detection of DNA. ACS Applied Nano Materials, 2019, 2, 1683-1690.	5.0	21
9	MicroRNA detection based on duplex-specific nuclease-assisted target recycling and gold nanoparticle/graphene oxide nanocomposite-mediated electrocatalytic amplification. Biosensors and Bioelectronics, 2019, 127, 188-193.	10.1	28
10	On-Particle Rolling Circle Amplification-Based Coreâ€“Satellite Magnetic Superstructures for MicroRNA Detection. ACS Applied Materials & Interfaces, 2018, 10, 2957-2964.	8.0	39
11	MicroRNA Detection through DNAzyme-Mediated Disintegration of Magnetic Nanoparticle Assemblies. ACS Sensors, 2018, 3, 1884-1891.	7.8	35
12	Ferromagnetic Resonance Biosensor for Homogeneous and Volumetric Detection of DNA. ACS Sensors, 2018, 3, 1093-1101.	7.8	33
13	Optomagnetic Detection of MicroRNA Based on Duplex-Specific Nuclease-Assisted Target Recycling and Multilayer Core-Satellite Magnetic Superstructures. ACS Nano, 2017, 11, 1798-1806.	14.6	67
14	Shape anisotropy enhanced optomagnetic measurement for prostate-specific antigen detection via magnetic chain formation. Biosensors and Bioelectronics, 2017, 98, 285-291.	10.1	14
15	Sequence-specific validation of LAMP amplicons in real-time optomagnetic detection of Dengue serotype 2 synthetic DNA. Analyst, The, 2017, 142, 3441-3450.	3.5	25
16	Attomolar Zika virus oligonucleotide detection based on loop-mediated isothermal amplification and AC susceptometry. Biosensors and Bioelectronics, 2016, 86, 420-425.	10.1	79
17	Rapid Newcastle Disease Virus Detection Based on Loop-Mediated Isothermal Amplification and Optomagnetic Readout. ACS Sensors, 2016, 1, 1228-1234.	7.8	29
18	Multi-scale magnetic nanoparticle based optomagnetic bioassay for sensitive DNA and bacteria detection. Analytical Methods, 2016, 8, 5009-5016.	2.7	22

#	Article	IF	Citations
19	Blu-ray optomagnetic measurement based competitive immunoassay for Salmonella detection. Biosensors and Bioelectronics, 2016, 77, 32-39.	10.1	36
20	Detection of Bacillus anthracis spores by super-paramagnetic lateral-flow immunoassays based on â€œRoad Closureâ€• Biosensors and Bioelectronics, 2015, 67, 608-614.	10.1	84
21	Magnetophoretic Transport Line System for Rapid On-Chip Attomole Protein Detection. Langmuir, 2015, 31, 10296-10302.	3.5	8
22	Rapid detection of Bacillus anthracis spores using a super-paramagnetic lateral-flow immunological detectionsystem. Biosensors and Bioelectronics, 2013, 42, 661-667.	10.1	83
23	Dyes as Labels in Biosensing. , 0, , .		2