

Jie Wu

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

2,645
citations

218677

26
h-index

233421

45
g-index

45
all docs

45
docs citations

45
times ranked

2889
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomedical and clinical applications of immunoassays and immunosensors for tumor markers. <i>TrAC - Trends in Analytical Chemistry</i> , 2007, 26, 679-688.	11.4	404
2	Motion-based DNA detection using catalytic nanomotors. <i>Nature Communications</i> , 2010, 1, 36.	12.8	276
3	Chemiluminescence Imaging Immunoassay of Multiple Tumor Markers for Cancer Screening. <i>Analytical Chemistry</i> , 2012, 84, 2410-2415.	6.5	164
4	Immunoreaction-triggered DNA assembly for one-step sensitive ratiometric electrochemical biosensing of protein biomarker. <i>Biosensors and Bioelectronics</i> , 2015, 66, 345-349.	10.1	129
5	Motor-Based Autonomous Microsensor for Motion and Counting Immunoassay of Cancer Biomarker. <i>Analytical Chemistry</i> , 2014, 86, 4501-4507.	6.5	115
6	Ratiometric electrochemical proximity assay for sensitive one-step protein detection. <i>Scientific Reports</i> , 2014, 4, 4360.	3.3	92
7	Bubble-Propelled Jellyfish-like Micromotors for DNA Sensing. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 13581-13588.	8.0	92
8	Manganese Porphyrin-dsDNA Complex: A Mimicking Enzyme for Highly Efficient Bioanalysis. <i>Analytical Chemistry</i> , 2013, 85, 3374-3379.	6.5	87
9	Target-driven DNA association to initiate cyclic assembly of hairpins for biosensing and logic gate operation. <i>Chemical Science</i> , 2015, 6, 4318-4323.	7.4	86
10	Molecular Machine Powered Surface Programmatic Chain Reaction for Highly Sensitive Electrochemical Detection of Protein. <i>Analytical Chemistry</i> , 2018, 90, 5503-5508.	6.5	85
11	Binding-induced DNA walker for signal amplification in highly selective electrochemical detection of protein. <i>Biosensors and Bioelectronics</i> , 2017, 96, 201-205.	10.1	80
12	Disposable Reagentless Electrochemical Immunosensor Array Based on a Biopolymer/Sol-Gel Membrane for Simultaneous Measurement of Several Tumor Markers. <i>Clinical Chemistry</i> , 2008, 54, 1481-1488.	3.2	79
13	Target-Driven Triple-Binder Assembly of MNAzyme for Amplified Electrochemical Immunosensing of Protein Biomarker. <i>Analytical Chemistry</i> , 2015, 87, 1694-1700.	6.5	71
14	Chemiluminescence Imaging for a Protein Assay via Proximity-Dependent DNAzyme Formation. <i>Analytical Chemistry</i> , 2014, 86, 9939-9944.	6.5	70
15	An efficient enzyme-powered micromotor device fabricated by cyclic alternate hybridization assembly for DNA detection. <i>Nanoscale</i> , 2017, 9, 9026-9033.	5.6	63
16	Multilayer hemin/G-quadruplex wrapped gold nanoparticles as tag for ultrasensitive multiplex immunoassay by chemiluminescence imaging. <i>Biosensors and Bioelectronics</i> , 2013, 43, 372-378.	10.1	62
17	Proximity Hybridization-Triggered Signal Switch for Homogeneous Chemiluminescent Bioanalysis. <i>Analytical Chemistry</i> , 2014, 86, 5573-5578.	6.5	61
18	Organic Electrochemical Transistors for the Detection of Cell Surface Glycans. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 18470-18477.	8.0	58

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19	A Rolling Circle-Amplified G-Quadruplex/Hemin DNAzyme for Chemiluminescence Immunoassay of the SARS-CoV-2 Protein. <i>Analytical Chemistry</i> , 2021, 93, 9933-9938.	6.5	43
20	Highly sensitive rapid chemiluminescent immunoassay using the DNAzyme label for signal amplification. <i>Analyst, The</i> , 2011, 136, 4295.	3.5	41
21	High-throughput imaging assay of multiple proteins via target-induced DNA assembly and cleavage. <i>Chemical Science</i> , 2015, 6, 2602-2607.	7.4	40
22	Intensive and Persistent Chemiluminescence System Based on Nano-/Bioenzymes with Local Tandem Catalysis and Surface Diffusion. <i>Analytical Chemistry</i> , 2020, 92, 5517-5523.	6.5	38
23	Nanogold-Enriched Carbon Nanohorn Label for Sensitive Electrochemical Detection of Biomarker on a Disposable Immunosensor. <i>Electroanalysis</i> , 2013, 25, 1044-1049.	2.9	32
24	Multiplexed chemiluminescence imaging assay of protein biomarkers using DNA microarray with proximity binding-induced hybridization chain reaction amplification. <i>Analytica Chimica Acta</i> , 2018, 1032, 130-137.	5.4	32
25	Ultrasensitive enzyme-free electrochemical immunosensor based on hybridization chain reaction triggered double strand DNA@Au nanoparticle tag. <i>Talanta</i> , 2014, 120, 218-223.	5.5	29
26	An efficient polymeric micromotor doped with Pt nanoparticle@carbon nanotubes for complex bio-media. <i>Chemical Communications</i> , 2015, 51, 6325-6328.	4.1	27
27	Motor-based microprobe powered by bio-assembled catalase for motion detection of DNA. <i>Biosensors and Bioelectronics</i> , 2017, 87, 31-37.	10.1	27
28	Lectin-mediated in situ rolling circle amplification on exosomes for probing cancer-related glycan pattern. <i>Analytica Chimica Acta</i> , 2018, 1039, 108-115.	5.4	25
29	A sensitive electrochemical method for rapid detection of dengue virus by CRISPR/Cas13a-assisted catalytic hairpin assembly. <i>Analytica Chimica Acta</i> , 2021, 1187, 339131.	5.4	24
30	Resonance energy transfer and electron-hole annihilation induced chemiluminescence of quantum dots for amplified immunoassay. <i>Chemical Communications</i> , 2018, 54, 11861-11864.	4.1	23
31	Proximity hybridization-regulated chemiluminescence resonance energy transfer for homogeneous immunoassay. <i>Talanta</i> , 2016, 154, 455-460.	5.5	22
32	Organic electrochemical transistor for sensing of sialic acid in serum samples. <i>Analytica Chimica Acta</i> , 2020, 1128, 231-237.	5.4	22
33	A facile strategy for quantitative sensing of glycans on cell surface using organic electrochemical transistors. <i>Biosensors and Bioelectronics</i> , 2021, 175, 112878.	10.1	21
34	Proximity hybridization-induced on particle DNA walker for ultrasensitive protein detection. <i>Analytica Chimica Acta</i> , 2019, 1074, 142-149.	5.4	20
35	Hybridization chain reaction engineered DNA nanopolylinker for amplified electrochemical sensing of biomarkers. <i>Analyst, The</i> , 2013, 138, 4870.	3.5	17
36	Target-induced cyclic DNAzyme formation for colorimetric and chemiluminescence imaging assay of protein biomarkers. <i>Analyst, The</i> , 2017, 142, 3740-3746.	3.5	15

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37	Motion of Enzyme-Powered Microshell Motors. <i>Chemistry - an Asian Journal</i> , 2019, 14, 2491-2496.	3.3	15
38	Proximity sequence enhanced CRISPR-Cas12a connected through hybridization chain reaction for sensitive biosensing of dengue virus. <i>Sensors and Actuators B: Chemical</i> , 2022, 366, 132011.	7.8	15
39	Target-Catalyzed Assembly of Pyrene-Labeled Hairpins for Exponentially Amplified Biosensing. <i>ACS Applied Bio Materials</i> , 2020, 3, 5342-5349.	4.6	10
40	Electrochemical biosensing of DENV nucleic acid amplified with triplet nanostructure-mediated dendritic hybridization chain reaction. <i>Sensors and Actuators B: Chemical</i> , 2021, 345, 130436.	7.8	9
41	An anchored monopodial DNA walker triggered by proximity hybridization for amplified amperometric biosensing of nucleic acid and protein. <i>Analytica Chimica Acta</i> , 2020, 1107, 48-54.	5.4	8
42	Fast detection of mycoplasma pneumoniae by interaction of tetramolecular G-quadruplex with graphene oxide. <i>Sensors and Actuators B: Chemical</i> , 2019, 290, 41-46.	7.8	6
43	Monose-modified organic electrochemical transistors for cell surface glycan analysis via competitive recognition to enzyme-labeled lectin. <i>Mikrochimica Acta</i> , 2021, 188, 252.	5.0	4
44	Refillable Fuel-Loading Microshell Motors for Persistent Motion in a Fuel-Free Environment. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 27074-27082.	8.0	4
45	Chemiluminescent screening of specific hybridoma cells via a proximity-rolling circle activated enzymatic switch. <i>Communications Biology</i> , 2022, 5, 308.	4.4	2