Hyou-Arm Joung

List of Publications by Year
in descending order

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		430874	526287
29	1,509	18	27
papers	citations	h-index	g-index

31	31	31	2322
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Graphene-Based Chemiluminescence Resonance Energy Transfer for Homogeneous Immunoassay. ACS Nano, 2012, 6, 2978-2983.	14.6	208
2	Chemiluminescence competitive aptamer assay for the detection of aflatoxin B1 in corn samples. Food Control, 2014, 36, 30-35.	5.5	145
3	One-touch-activated blood multidiagnostic system using a minimally invasive hollow microneedle integrated with a paper-based sensor. Lab on A Chip, 2015, 15, 3286-3292.	6.0	112
4	A Paper-Based Device for Performing Loop-Mediated Isothermal Amplification with Real-Time Simultaneous Detection of Multiple DNA Targets. Theranostics, 2017, 7, 2220-2230.	10.0	108
5	Vertical flow immunoassay (VFA) biosensor for a rapid one-step immunoassay. Lab on A Chip, 2013, 13, 768.	6.0	90
6	A three-line lateral flow assay strip for the measurement of C-reactive protein covering a broad physiological concentration range in human sera. Biosensors and Bioelectronics, 2014, 61, 285-289.	10.1	80
7	High sensitivity detection of 16s rRNA using peptide nucleic acid probes and a surface plasmon resonance biosensor. Analytica Chimica Acta, 2008, 630, 168-173.	5.4	79
8	An automatic enzyme immunoassay based on a chemiluminescent lateral flow immunosensor. Biosensors and Bioelectronics, 2014, 53, 330-335.	10.1	78
9	Surface Plasmon Resonance Analysis of Alzheimer's Î²-Amyloid Aggregation on a Solid Surface:â€‰ From Monomers to Fully-Grown Fibrils. Analytical Chemistry, 2008, 80, 2400-2407.	6.5	67
10	Point-of-Care Serodiagnostic Test for Early-Stage Lyme Disease Using a Multiplexed Paper-Based Immunoassay and Machine Learning. ACS Nano, 2020, 14, 229-240.	14.6	66
11	Deep learning-enabled point-of-care sensing using multiplexed paper-based sensors. Npj Digital Medicine, 2020, 3, 66.	10.9	65
12	Recent Progress in Lyme Disease and Remaining Challenges. Frontiers in Medicine, 2021, 8, 666554.	2.6	55
13	An interference-free and rapid electrochemical lateral-flow immunoassay for one-step ultrasensitive detection with serum. Analyst, The, 2014, 139, 1420-1425.	3.5	53
14	Paper-based multiplexed vertical flow assay for point-of-care testing. Lab on A Chip, 2019, 19, 1027-1034.	6.0	53
15	Homogeneous assay of target molecules based on chemiluminescence resonance energy transfer (CRET) using DNAzyme-linked aptamers. Biosensors and Bioelectronics, 2014, 58, 308-313.	10.1	44
16	Detection of Bax protein conformational change using a surface plasmon resonance imaging-based antibody chip. Biochemical and Biophysical Research Communications, 2005, 338, 1834-1838.	2.1	36
17	A hook effect-free immunochromatographic assay (HEF-ICA) for measuring the C-reactive protein concentration in one drop of human serum. Theranostics, 2018, 8, 3189-3197.	10.0	31
18	An immunochromatographic biosensor combined with a water-swellable polymer for automatic signal generation or amplification. Biosensors and Bioelectronics, 2016, 85, 422-428.	10.1	23

#	Article	IF	Citations
19	A handheld lateral flow strip for rapid DNA extraction from staphylococcus aureus cell spiked in various samples. Biomedical Physics and Engineering Express, 2019, 5, 035035.	1.2	19
20	Quantitative particle agglutination assay for point-of-care testing using mobile holographic imaging and deep learning. Lab on A Chip, 2021, 21, 3550-3558.	6.0	17
21	Screening of a specific monoclonal antibody against and detection ofListeria monocytogenes whole cells using a surface plasmon resonance biosensor. Biotechnology and Bioprocess Engineering, 2007, 12, 80-85.	2.6	16
22	Tear-off patterning: a simple method for patterning nitrocellulose membranes to improve the performance of point-of-care diagnostic biosensors. Lab on A Chip, 2015, 15, 3006-3012.	6.0	14
23	Measurement of serum phosphate levels using a mobile sensor. Analyst, The, 2020, 145, 1841-1848.	3.5	13
24	Real-time monitoring of cell-free protein synthesis on a surface plasmon resonance chip. Analytical Biochemistry, 2007, 366, 170-174.	2.4	12
25	Rapid and Simple Detection of Ochratoxin A using Fluorescence Resonance Energy Transfer on Lateral Flow Immunoassay (FRET-LFI). Toxins, 2019, 11, 292.	3.4	12
26	Detection of glucose-induced conformational change in hexokinase II using fluorescence complementation assay. Biotechnology Letters, 2007, 29, 797-802.	2.2	5
27	Attomolar detection of cytokines using a chemiluminescence immunoassay based on an antibody-arrayed CMOS image sensor. Sensors and Actuators B: Chemical, 2015, 221, 1248-1255.	7.8	5
28	A high sensitivity chemiluminescence-based CMOS image biosensor for the detection of human interleukin 5 (IL-5). , 2012, , .		1
29	High-sensitivity chemiluminescence detection of cytokines using an antibody-immobilized CMOS image sensor. Proceedings of SPIE, 2013, , .	0.8	0