

Hyou-Arm Joung

List of Publications by Year in descending order

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29
papers

1,509
citations

430874

18
h-index

526287

27
g-index

31
all docs

31
docs citations

31
times ranked

2322
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Progress in Lyme Disease and Remaining Challenges. <i>Frontiers in Medicine</i> , 2021, 8, 666554.	2.6	55
2	Quantitative particle agglutination assay for point-of-care testing using mobile holographic imaging and deep learning. <i>Lab on A Chip</i> , 2021, 21, 3550-3558.	6.0	17
3	Measurement of serum phosphate levels using a mobile sensor. <i>Analyst, The</i> , 2020, 145, 1841-1848.	3.5	13
4	Point-of-Care Serodiagnostic Test for Early-Stage Lyme Disease Using a Multiplexed Paper-Based Immunoassay and Machine Learning. <i>ACS Nano</i> , 2020, 14, 229-240.	14.6	66
5	Deep learning-enabled point-of-care sensing using multiplexed paper-based sensors. <i>Npj Digital Medicine</i> , 2020, 3, 66.	10.9	65
6	Paper-based multiplexed vertical flow assay for point-of-care testing. <i>Lab on A Chip</i> , 2019, 19, 1027-1034.	6.0	53
7	Rapid and Simple Detection of Ochratoxin A using Fluorescence Resonance Energy Transfer on Lateral Flow Immunoassay (FRET-LFI). <i>Toxins</i> , 2019, 11, 292.	3.4	12
8	A handheld lateral flow strip for rapid DNA extraction from staphylococcus aureus cell spiked in various samples. <i>Biomedical Physics and Engineering Express</i> , 2019, 5, 035035.	1.2	19
9	A hook effect-free immunochromatographic assay (HEF-ICA) for measuring the C-reactive protein concentration in one drop of human serum. <i>Theranostics</i> , 2018, 8, 3189-3197.	10.0	31
10	A Paper-Based Device for Performing Loop-Mediated Isothermal Amplification with Real-Time Simultaneous Detection of Multiple DNA Targets. <i>Theranostics</i> , 2017, 7, 2220-2230.	10.0	108
11	An immunochromatographic biosensor combined with a water-swallowable polymer for automatic signal generation or amplification. <i>Biosensors and Bioelectronics</i> , 2016, 85, 422-428.	10.1	23
12	Tear-off patterning: a simple method for patterning nitrocellulose membranes to improve the performance of point-of-care diagnostic biosensors. <i>Lab on A Chip</i> , 2015, 15, 3006-3012.	6.0	14
13	One-touch-activated blood multidagnostic system using a minimally invasive hollow microneedle integrated with a paper-based sensor. <i>Lab on A Chip</i> , 2015, 15, 3286-3292.	6.0	112
14	Attomolar detection of cytokines using a chemiluminescence immunoassay based on an antibody-arrayed CMOS image sensor. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 1248-1255.	7.8	5
15	Homogeneous assay of target molecules based on chemiluminescence resonance energy transfer (CRET) using DNAzyme-linked aptamers. <i>Biosensors and Bioelectronics</i> , 2014, 58, 308-313.	10.1	44
16	An interference-free and rapid electrochemical lateral-flow immunoassay for one-step ultrasensitive detection with serum. <i>Analyst, The</i> , 2014, 139, 1420-1425.	3.5	53
17	A three-line lateral flow assay strip for the measurement of C-reactive protein covering a broad physiological concentration range in human sera. <i>Biosensors and Bioelectronics</i> , 2014, 61, 285-289.	10.1	80
18	An automatic enzyme immunoassay based on a chemiluminescent lateral flow immunosensor. <i>Biosensors and Bioelectronics</i> , 2014, 53, 330-335.	10.1	78

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19	Chemiluminescence competitive aptamer assay for the detection of aflatoxin B1 in corn samples. Food Control, 2014, 36, 30-35.	5.5	145
20	Vertical flow immunoassay (VFA) biosensor for a rapid one-step immunoassay. Lab on A Chip, 2013, 13, 768.	6.0	90
21	High-sensitivity chemiluminescence detection of cytokines using an antibody-immobilized CMOS image sensor. Proceedings of SPIE, 2013, , .	0.8	0
22	A high sensitivity chemiluminescence-based CMOS image biosensor for the detection of human interleukin 5 (IL-5). , 2012, , .		1
23	Graphene-Based Chemiluminescence Resonance Energy Transfer for Homogeneous Immunoassay. ACS Nano, 2012, 6, 2978-2983.	14.6	208
24	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
25	Surface Plasmon Resonance Analysis of Alzheimer's Î²-Amyloid Aggregation on a Solid Surface: From Monomers to Fully-Grown Fibrils. Analytical Chemistry, 2008, 80, 2400-2407.	6.5	67
26	Real-time monitoring of cell-free protein synthesis on a surface plasmon resonance chip. Analytical Biochemistry, 2007, 366, 170-174.	2.4	12
27	Screening of a specific monoclonal antibody against and detection of Listeria monocytogenes whole cells using a surface plasmon resonance biosensor. Biotechnology and Bioprocess Engineering, 2007, 12, 80-85.	2.6	16
28	Detection of glucose-induced conformational change in hexokinase II using fluorescence complementation assay. Biotechnology Letters, 2007, 29, 797-802.	2.2	5
29	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