

Jae Hwan Jung

List of Publications by Year in descending order

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42
papers

2,154
citations

331670

21
h-index

330143

37
g-index

44
all docs

44
docs citations

44
times ranked

3172
citing authors

#	ARTICLE	IF	CITATIONS
1	A Graphene Oxide Based Immuno-biosensor for Pathogen Detection. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5708-5711.	13.8	507
2	An integrated rotary microfluidic system with DNA extraction, loop-mediated isothermal amplification, and lateral flow strip based detection for point-of-care pathogen diagnostics. <i>Biosensors and Bioelectronics</i> , 2017, 91, 334-340.	10.1	192
3	Microneedle for transdermal drug delivery: current trends and fabrication. <i>Journal of Pharmaceutical Investigation</i> , 2021, 51, 503-517.	5.3	142
4	Centrifugal loop-mediated isothermal amplification microdevice for rapid, multiplex and colorimetric foodborne pathogen detection. <i>Biosensors and Bioelectronics</i> , 2016, 75, 293-300.	10.1	140
5	Fully automated and colorimetric foodborne pathogen detection on an integrated centrifugal microfluidic device. <i>Lab on A Chip</i> , 2016, 16, 1917-1926.	6.0	107
6	Ocular drug delivery targeted by iontophoresis in the suprachoroidal space using a microneedle. <i>Journal of Controlled Release</i> , 2018, 277, 14-22.	9.9	90
7	The suprachoroidal space as a route of administration to the posterior segment of the eye. <i>Advanced Drug Delivery Reviews</i> , 2018, 126, 58-66.	13.7	77
8	A centrifugal direct recombinase polymerase amplification (direct-RPA) microdevice for multiplex and real-time identification of food poisoning bacteria. <i>Lab on A Chip</i> , 2016, 16, 2309-2316.	6.0	75
9	Combination of a Sample Pretreatment Microfluidic Device with a Photoluminescent Graphene Oxide Quantum Dot Sensor for Trace Lead Detection. <i>Analytical Chemistry</i> , 2015, 87, 10969-10975.	6.5	70
10	A Novel Colorimetric Immunoassay Utilizing the Peroxidase Mimicking Activity of Magnetic Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2013, 14, 9999-10014.	4.1	61
11	An integrated passive micromixer-magnetic separation-capillary electrophoresis microdevice for rapid and multiplex pathogen detection at the single-cell level. <i>Lab on A Chip</i> , 2011, 11, 3465.	6.0	58
12	Integrated centrifugal reverse transcriptase loop-mediated isothermal amplification microdevice for influenza A virus detection. <i>Biosensors and Bioelectronics</i> , 2015, 68, 218-224.	10.1	56
13	Combination of multiplex reverse-transcription loop-mediated isothermal amplification with an immunochromatographic strip for subtyping influenza A virus. <i>Analytica Chimica Acta</i> , 2015, 853, 541-547.	5.4	54
14	Ultrafast Rotary PCR system for multiple influenza viral RNA detection. <i>Lab on A Chip</i> , 2012, 12, 1598.	6.0	42
15	A rotary microsystem for simple, rapid and automatic RNA purification. <i>Lab on A Chip</i> , 2012, 12, 3875.	6.0	41
16	Homogeneous Biogenic Paramagnetic Nanoparticle Synthesis Based on a Microfluidic Droplet Generator. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5634-5637.	13.8	38
17	A microbead-incorporated centrifugal sample pretreatment microdevice. <i>Lab on A Chip</i> , 2013, 13, 3383.	6.0	33
18	Targeted Drug Delivery in the Suprachoroidal Space by Swollen Hydrogel Pushing. , 2018, 59, 2069.		33

#	ARTICLE	IF	CITATIONS
19	Thickness and Closure Kinetics of the Suprachoroidal Space Following Microneedle Injection of Liquid Formulations. , 2017, 58, 555.		28
20	A packaged paper fluidic-based microdevice for detecting gene expression of influenza A virus. Biosensors and Bioelectronics, 2014, 61, 485-490.	10.1	27
21	Targeting drug delivery within the suprachoroidal space. Drug Discovery Today, 2019, 24, 1654-1659.	6.4	24
22	Synthesis of a 3D graphite microball using a microfluidic droplet generator and its polymer composite with core-shell structure. Lab on A Chip, 2013, 13, 4006.	6.0	23
23	In Vivo Synthesis of Nanocomposites Using the Recombinant <i>Escherichia coli</i> . Small, 2018, 14, e1803133.	10.0	22
24	Drug-Free, Nonsurgical Reduction of Intraocular Pressure for Four Months after Suprachoroidal Injection of Hyaluronic Acid Hydrogel. Advanced Science, 2021, 8, 2001908.	11.2	20
25	Vaccination by microneedle patch with inactivated respiratory syncytial virus and monophosphoryl lipid A enhances the protective efficacy and diminishes inflammatory disease after challenge. PLoS ONE, 2018, 13, e0205071.	2.5	18
26	Fabricating High-Resolution and High-Dimensional Microneedle Mold through the Resolution Improvement of Stereolithography 3D Printing. Pharmaceutics, 2022, 14, 766.	4.5	18
27	An advanced centrifugal microsystem toward high-throughput multiplex colloidal nanocrystal synthesis. Sensors and Actuators B: Chemical, 2015, 209, 927-933.	7.8	17
28	Collagenase injection into the suprachoroidal space of the eye to expand drug delivery coverage and increase posterior drug targeting. Experimental Eye Research, 2019, 189, 107824.	2.6	16
29	Combination of biobarcode assay with on-chip capillary electrophoresis for ultrasensitive and multiplex biological agent detection. Biosensors and Bioelectronics, 2014, 61, 172-176.	10.1	15
30	Integration of sample pretreatment, qPCR, and detection for a total genetic analysis microsystem. Mikrochimica Acta, 2014, 181, 1655-1668.	5.0	14
31	Enhanced extraction of skin interstitial fluid using a 3D printed device enabling tilted microneedle penetration. Scientific Reports, 2021, 11, 14018.	3.3	14
32	3D Porous Sol-Gel Matrix Incorporated Microdevice for Effective Large Volume Cell Sample Pretreatment. Analytical Chemistry, 2012, 84, 4928-4934.	6.5	11
33	A centrifuge-based stepwise chemical loading disc for the production of multiplex anisotropic metallic nanoparticles. RSC Advances, 2015, 5, 1846-1851.	3.6	10
34	Synthesis of MoS ₂ nanoparticles grown on crumpled 3D graphene microballs using a microfluidic droplet generator. Carbon Letters, 2021, 31, 831.	5.9	9
35	A fully integrated microdevice for biobarcode assay based biological agent detection. Lab on A Chip, 2015, 15, 2744-2748.	6.0	6
36	Sustainable Drug Release Using Nanoparticle Encapsulated Microneedles. Chemistry - an Asian Journal, 2022, 17, .	3.3	6

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37	Biosynthesis and applications of iron oxide nanocomposites synthesized by recombinant Escherichia coli. Applied Microbiology and Biotechnology, 2022, 106, 1127-1137.	3.6	5
38	Highly sensitive detection of cancer cells based on the DNA barcode assay and microcapillary electrophoretic analysis. Electrophoresis, 2014, 35, 1504-1508.	2.4	4
39	An energy-optimized (37840, 34320) symmetric BC-BCH decoder for healthy mobile storages. , 2017, , .		4
40	Graphene oxide-based immunobiosensor for ultrasensitive pathogen detection. , 2010, , .		0
41	Homogeneous Biogenic Paramagnetic Nanoparticle Synthesis Based on a Microfluidic Droplet Generator (Angew. Chem. 23/2012). Angewandte Chemie, 2012, 124, 5864-5864.	2.0	0
42	Back Cover: Homogeneous Biogenic Paramagnetic Nanoparticle Synthesis Based on a Microfluidic Droplet Generator (Angew. Chem. Int. Ed. 23/2012). Angewandte Chemie - International Edition, 2012, 51, 5764-5764.	13.8	0