

Jae-Hyun Chung

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

518
citations

686830

13
h-index

676716

22
g-index

38
all docs

38
docs citations

38
times ranked

752
citing authors

#	ARTICLE	IF	CITATIONS
1	Immunosensor towards low-cost, rapid diagnosis of tuberculosis. <i>Lab on A Chip</i> , 2012, 12, 1437.	3.1	56
2	Single Walled Carbon Nanotube-Based Junction Biosensor for Detection of Escherichia coli. <i>PLoS ONE</i> , 2014, 9, e105767.	1.1	55
3	Characterization of mixing performance for bio-mimetic silicone cilia. <i>Microfluidics and Nanofluidics</i> , 2010, 9, 645-655.	1.0	42
4	Size-Specific Concentration of DNA to a Nanostructured Tip Using Dielectrophoresis and Capillary Action. <i>Journal of Physical Chemistry B</i> , 2009, 113, 10849-10858.	1.2	39
5	Electric Field Guided Assembly of One-Dimensional Nanostructures for High Performance Sensors. <i>Sensors</i> , 2012, 12, 5725-5751.	2.1	30
6	Cryopreservation of Mycobacterium tuberculosis Complex Cells. <i>Journal of Clinical Microbiology</i> , 2012, 50, 3575-3580.	1.8	24
7	Polyacrylic acid coated carbon nanotube "paper composites for humidity and moisture sensing. <i>Journal of Materials Chemistry C</i> , 2019, 7, 5374-5380.	2.7	22
8	Amperometric immunosensor for rapid detection of <i>Mycobacterium tuberculosis</i> . <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 055013.	1.5	21
9	A low cost, disposable cable-shaped Al-air battery for portable biosensors. <i>Journal of Micromechanics and Microengineering</i> , 2016, 26, 055011.	1.5	19
10	Dielectrophoretic concentration of low-abundance nanoparticles using a nanostructured tip. <i>Nanotechnology</i> , 2012, 23, 485707.	1.3	18
11	Size-selective immunofluorescence of Mycobacterium tuberculosis cells by capillary- and viscous forces. <i>Lab on A Chip</i> , 2010, 10, 3178.	3.1	15
12	Electrolyte-free amperometric immunosensor using a dendritic nanotip. <i>RSC Advances</i> , 2013, 3, 4281.	1.7	15
13	Nanoscale sensor analysis using the immersed molecular electrokinetic finite element method. <i>Nanoscale</i> , 2012, 4, 5189.	2.8	13
14	Nanotip analysis for dielectrophoretic concentration of nanosized viral particles. <i>Nanotechnology</i> , 2013, 24, 185502.	1.3	12
15	Nanoink bridge-induced capillary pen printing for chemical sensors. <i>Nanotechnology</i> , 2018, 29, 335304.	1.3	12
16	Electric field-induced concentration and capture of DNA onto microtips. <i>Microfluidics and Nanofluidics</i> , 2012, 13, 217-225.	1.0	11
17	Nanostructured Tip-Shaped Biosensors: Application of Six Sigma Approach for Enhanced Manufacturing. <i>Sensors</i> , 2017, 17, 17.	2.1	11
18	Carbon nanotube-based thin-film resistive sensor for point-of-care screening of tuberculosis. <i>Biomedical Microdevices</i> , 2020, 22, 50.	1.4	11

#	ARTICLE	IF	CITATIONS
19	Resonant behavior and microfluidic manipulation of silicone cilia due to an added mass effect. <i>Soft Matter</i> , 2011, 7, 4325.	1.2	10
20	Enhanced bioreaction efficiency of a microfluidic mixer toward high-throughput and low-cost bioassays. <i>Microfluidics and Nanofluidics</i> , 2012, 12, 143-156.	1.0	10
21	Semi-Automated, Occupationally Safe Immunofluorescence Microtip Sensor for Rapid Detection of Mycobacterium Cells in Sputum. <i>PLoS ONE</i> , 2014, 9, e86018.	1.1	8
22	Highly Sensitive Immuno-resistive Sensor for Point-Of-Care Screening for COVID-19. <i>Biosensors</i> , 2022, 12, 149.	2.3	8
23	Dielectrophoretic characterization of antibiotic-treated Mycobacterium tuberculosis complex cells. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 7673-7680.	1.9	7
24	Fracture-Induced Mechano-electrical Sensitivities of Paper-Based Nanocomposites. <i>Advanced Materials Technologies</i> , 2018, 3, 1700266.	3.0	6
25	Electromechanical coupling of isotropic fibrous networks with tailored auxetic behavior induced by water-printing under tension. <i>Journal of Materials Chemistry C</i> , 2021, 9, 4544-4553.	2.7	5
26	Simultaneous multiparameter whole blood hemostasis assessment using a carbon nanotube-paper composite capacitance sensor. <i>Biosensors and Bioelectronics</i> , 2022, 197, 113786.	5.3	5
27	Ultrasensitive Capacitive Sensor Composed of Nanostructured Electrodes for Human-Machine Interface. <i>Advanced Materials Technologies</i> , 0, , 2101704.	3.0	5
28	Nanotips for single-step preparation of DNA for qPCR analysis. <i>Analyst, The</i> , 2013, 138, 3135.	1.7	4
29	Contact angle changes induced by immunocomplex formation. <i>Analyst, The</i> , 2014, 139, 1340-1344.	1.7	4
30	Dielectrophoretic sensitivity analysis of cell characterization. <i>International Journal of Precision Engineering and Manufacturing</i> , 2017, 18, 747-754.	1.1	4
31	Humidity response of a capacitive sensor based on auxeticity of carbon nanotube-paper composites. <i>Nano Express</i> , 2022, 3, 025001.	1.2	4
32	FABRICATION AND MEASUREMENT OF SUSPENDED SILICON CARBIDE NANOWIRE DEVICES AND DEFLECTION. <i>Nano</i> , 2009, 04, 351-358.	0.5	3
33	Specific capture of target bacteria onto sensor surfaces for infectious disease diagnosis. <i>Journal of Micromechanics and Microengineering</i> , 2014, 24, 045009.	1.5	3
34	Capacitive eye tracker made of fractured carbon nanotube-paper composites for wearable applications. <i>Sensors and Actuators A: Physical</i> , 2022, 344, 113739.	2.0	2
35	Ion Diffusion and DNA Stretching in an Open Nanofluidic System. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2011, 2, .	0.8	1
36	Electrokinetic Behavior of Heat-Treated Mycobacterium Bacillus Calmette-Guérin Cells. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2018, 12, .	0.4	1

#	ARTICLE	IF	CITATIONS
37	BIOMIMETIC CILIA. World Scientific Series in Nanoscience and Nanotechnology, 2014, , 509-532.	0.1	0