

# 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	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
2	Highly Sensitive Immuno-resistive Sensor for Point-Of-Care Screening for COVID-19. <i>Biosensors</i> , 2022, 12, 149.	2.3	8
3	Humidity response of a capacitive sensor based on auxeticity of carbon nanotube-paper composites. <i>Nano Express</i> , 2022, 3, 025001.	1.2	4
4	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
5	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
6	Carbon nanotube-based thin-film resistive sensor for point-of-care screening of tuberculosis. <i>Biomedical Microdevices</i> , 2020, 22, 50.	1.4	11
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	Fracture-Induced Mechano-electrical Sensitivities of Paper-Based Nanocomposites. <i>Advanced Materials Technologies</i> , 2018, 3, 1700266.	3.0	6
9	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
10	Nanoink bridge-induced capillary pen printing for chemical sensors. <i>Nanotechnology</i> , 2018, 29, 335304.	1.3	12
11	Dielectrophoretic sensitivity analysis of cell characterization. <i>International Journal of Precision Engineering and Manufacturing</i> , 2017, 18, 747-754.	1.1	4
12	Nanostructured Tip-Shaped Biosensors: Application of Six Sigma Approach for Enhanced Manufacturing. <i>Sensors</i> , 2017, 17, 17.	2.1	11
13	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
14	Amperometric immunosensor for rapid detection of <i>Mycobacterium tuberculosis</i> . <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 055013.	1.5	21
15	Dielectrophoretic characterization of antibiotic-treated <i>Mycobacterium tuberculosis</i> complex cells. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 7673-7680.	1.9	7
16	Semi-Automated, Occupationally Safe Immunofluorescence Microtip Sensor for Rapid Detection of <i>Mycobacterium</i> Cells in Sputum. <i>PLoS ONE</i> , 2014, 9, e86018.	1.1	8
17	Single Walled Carbon Nanotube-Based Junction Biosensor for Detection of <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2014, 9, e105767.	1.1	55
18	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

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19	BIOMIMETIC CILIA. World Scientific Series in Nanoscience and Nanotechnology, 2014, , 509-532.	0.1	0
20	Contact angle changes induced by immunocomplex formation. Analyst, The, 2014, 139, 1340-1344.	1.7	4
21	Nanotip analysis for dielectrophoretic concentration of nanosized viral particles. Nanotechnology, 2013, 24, 185502.	1.3	12
22	Electrolyte-free amperometric immunosensor using a dendritic nanotip. RSC Advances, 2013, 3, 4281.	1.7	15
23	Nanotips for single-step preparation of DNA for qPCR analysis. Analyst, The, 2013, 138, 3135.	1.7	4
24	Electric field-induced concentration and capture of DNA onto microtips. Microfluidics and Nanofluidics, 2012, 13, 217-225.	1.0	11
25	Nanoscale sensor analysis using the immersed molecular electrokinetic finite element method. Nanoscale, 2012, 4, 5189.	2.8	13
26	Cryopreservation of Mycobacterium tuberculosis Complex Cells. Journal of Clinical Microbiology, 2012, 50, 3575-3580.	1.8	24
27	Electric Field Guided Assembly of One-Dimensional Nanostructures for High Performance Sensors. Sensors, 2012, 12, 5725-5751.	2.1	30
28	Dielectrophoretic concentration of low-abundance nanoparticles using a nanostructured tip. Nanotechnology, 2012, 23, 485707.	1.3	18
29	Immunosensor towards low-cost, rapid diagnosis of tuberculosis. Lab on A Chip, 2012, 12, 1437.	3.1	56
30	Enhanced bioreaction efficiency of a microfluidic mixer toward high-throughput and low-cost bioassays. Microfluidics and Nanofluidics, 2012, 12, 143-156.	1.0	10
31	Resonant behavior and microfluidic manipulation of silicone cilia due to an added mass effect. Soft Matter, 2011, 7, 4325.	1.2	10
32	Ion Diffusion and DNA Stretching in an Open Nanofluidic System. Journal of Nanotechnology in Engineering and Medicine, 2011, 2, .	0.8	1
33	Characterization of mixing performance for bio-mimetic silicone cilia. Microfluidics and Nanofluidics, 2010, 9, 645-655.	1.0	42
34	Size-selective immunofluorescence of Mycobacterium tuberculosis cells by capillary- and viscous forces. Lab on A Chip, 2010, 10, 3178.	3.1	15
35	FABRICATION AND MEASUREMENT OF SUSPENDED SILICON CARBIDE NANOWIRE DEVICES AND DEFLECTION. Nano, 2009, 04, 351-358.	0.5	3
36	Size-Specific Concentration of DNA to a Nanostructured Tip Using Dielectrophoresis and Capillary Action. Journal of Physical Chemistry B, 2009, 113, 10849-10858.	1.2	39

#	ARTICLE	IF	CITATIONS
37	Ultrasensitive Capacitive Sensor Composed of Nanostructured Electrodes for Humanâ€“Machine Interface. <i>Advanced Materials Technologies</i> , 0, , 2101704.	3.0	5