

# Hyundoo Hwang

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

2,057  
citations

201674

27  
h-index

233421

45  
g-index

64  
all docs

64  
docs citations

64  
times ranked

2879  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cyclic tangential flow filtration system for isolation of extracellular vesicles. <i>APL Bioengineering</i> , 2021, 5, 016103.	6.2	31
2	Evaluation of Analytical Performances of Magnetic Force-Assisted Electrochemical Sandwich Immunoassay for the Quantification of Carcinoembryonic Antigen. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 798079.	4.1	5
3	Comparison of Two-Dimensional and Three-Dimensional Carbon Electrode Geometries Affecting Bidirectional Electroosmotic Pumping. <i>Journal of Micro and Nano-Manufacturing</i> , 2019, 7, .	0.7	4
4	Dynamic Mitochondrial Migratory Features Associated with Calcium Responses during T Cell Antigen Recognition. <i>Journal of Immunology</i> , 2019, 203, 760-768.	0.8	6
5	Hydrodynamic channeling as a controlled flow reversal mechanism for bidirectional AC electroosmotic pumping using glassy carbon microelectrode arrays. <i>Journal of Micromechanics and Microengineering</i> , 2019, 29, 075007.	2.6	10
6	Microfluidics for drug delivery systems. , 2019, , 55-83.		1
7	MESIA: Magnetic force-assisted electrochemical sandwich immunoassays for quantification of prostate-specific antigen in human serum. <i>Analytica Chimica Acta</i> , 2019, 1061, 92-100.	5.4	14
8	Evaluation of MARK BTM for Quantitative Measurement of Three Tumor Markers: Prostate Specific Antigen, Alpha Fetoprotein, and Carcinoembryonic Antigen. <i>Clinical Laboratory</i> , 2019, 65, .	0.5	2
9	Mobile diagnostics: next-generation technologies for<i>in vitro</i>diagnostics. <i>Analyst, The</i> , 2018, 143, 1515-1525.	3.5	17
10	Synthesis of colloidal silver nanoparticle clusters and their application in ascorbic acid detection by SERS. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 163, 329-335.	5.0	45
11	A Simple Pipetting-based Method for Encapsulating Live Cells into Multi-layered Hydrogel Droplets. <i>Biochip Journal</i> , 2018, 12, 184-192.	4.9	2
12	Magnetic force assisted electrochemical sensor for the detection of thrombin with aptamer-antibody sandwich formation. <i>Biosensors and Bioelectronics</i> , 2018, 117, 480-486.	10.1	69
13	Biomarkers in Infectious Diseases. <i>Disease Markers</i> , 2018, 2018, 1-2.	1.3	28
14	Twitchin kinase inhibits muscle activity. <i>Molecular Biology of the Cell</i> , 2017, 28, 1591-1600.	2.1	16
15	Direct current-induced breakdown to enhance reproducibility and performance of carbon-based interdigitated electrode arrays for AC electroosmotic micropumps. <i>Sensors and Actuators A: Physical</i> , 2017, 262, 10-17.	4.1	17
16	Automated and controlled mechanical stimulation and functional imaging in vivo in <i>C. elegans</i> . <i>Lab on A Chip</i> , 2017, 17, 2609-2618.	6.0	49
17	Fabrication of 3D Carbon Microelectromechanical Systems (C-MEMS). <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	5
18	Molecular evolution of troponin I and a role of its N-terminal extension in nematode locomotion. <i>Cytoskeleton</i> , 2016, 73, 117-130.	2.0	13

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19	Molecular evolution of troponin I and a role of its N-terminal extension in nematode locomotion. <i>Cytoskeleton</i> , 2016, 73, Spc1-Spc1.	2.0	0
20	Muscle contraction phenotypic analysis enabled by optogenetics reveals functional relationships of sarcomere components in <i>Caenorhabditis elegans</i> . <i>Scientific Reports</i> , 2016, 6, 19900.	3.3	28
21	Controlled anisotropic wetting of scalloped silicon nanogroove. <i>RSC Advances</i> , 2016, 6, 41914-41918.	3.6	16
22	3D Carbon Electrode Based Triboelectric Nanogenerator. <i>Advanced Materials Technologies</i> , 2016, 1, 1600160.	5.8	16
23	Human breast cancer-derived soluble factors facilitate CCL19-induced chemotaxis of human dendritic cells. <i>Scientific Reports</i> , 2016, 6, 30207.	3.3	33
24	Human hair-derived hollow carbon microfibers for electrochemical sensing. <i>Carbon</i> , 2016, 107, 872-877.	10.3	40
25	On-demand optical immobilization of <i>Caenorhabditis elegans</i> for high-resolution imaging and microinjection. <i>Lab on A Chip</i> , 2014, 14, 3498.	6.0	34
26	RhoA and Rac1 play independent roles in lysophosphatidic acid-induced ovarian cancer chemotaxis. <i>Integrative Biology (United Kingdom)</i> , 2014, 6, 267-276.	1.3	15
27	Three dimensional multicellular co-cultures and anti-cancer drug assays in rapid prototyped multilevel microfluidic devices. <i>Biomedical Microdevices</i> , 2013, 15, 627-634.	2.8	26
28	Geometry effects on blood separation rate on a rotating disc. <i>Sensors and Actuators B: Chemical</i> , 2013, 178, 648-655.	7.8	31
29	Lab-on-a-Disc for Simultaneous Determination of Nutrients in Water. <i>Analytical Chemistry</i> , 2013, 85, 2954-2960.	6.5	64
30	Microfluidic tools for developmental studies of small model organisms – nematodes, fruit flies, and zebrafish. <i>Biotechnology Journal</i> , 2013, 8, 192-205.	3.5	55
31	Optoelectrofluidic behavior of metal-polymer hybrid colloidal particles. <i>Applied Physics Letters</i> , 2013, 102, 054105.	3.3	9
32	Productive Chemical Interaction between a Bacterial Microcolony Couple Is Enhanced by Periodic Relocation. <i>Journal of the American Chemical Society</i> , 2013, 135, 2242-2247.	13.7	31
33	Lab-on-a-Disc for Fully Integrated Multiplex Immunoassays. <i>Analytical Chemistry</i> , 2012, 84, 2133-2140.	6.5	141
34	Label-Free Cell Separation Using a Tunable Magnetophoretic Repulsion Force. <i>Analytical Chemistry</i> , 2012, 84, 3075-3081.	6.5	110
35	Elastomeric membrane valves in a disc. <i>Lab on A Chip</i> , 2011, 11, 1434.	6.0	43
36	Paper on a disc: balancing the capillary-driven flow with a centrifugal force. <i>Lab on A Chip</i> , 2011, 11, 3404.	6.0	49

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37	Flexible fabrication and applications of polymer nanochannels and nanoslits. Chemical Society Reviews, 2011, 40, 3677.	38.1	110
38	Optoelectrofluidic platforms for chemistry and biology. Lab on A Chip, 2011, 11, 33-47.	6.0	92
39	In situ dynamic measurements of the enhanced SERS signal using an optoelectrofluidic SERS platform. Lab on A Chip, 2011, 11, 2518.	6.0	52
40	Simple room temperature bonding of thermoplastics and poly(dimethylsiloxane). Lab on A Chip, 2011, 11, 962-965.	6.0	159
41	Optoelectrofluidic Manipulation of Nanoparticles and Biomolecules. Advances in OptoElectronics, 2011, 2011, 1-13.	0.6	7
42	Magnetophoretic label-free cell separation using paramagnetic solution. , 2011, , .		1
43	Fully Integrated Immunoassays on a Disc. ECS Transactions, 2011, 35, 47-55.	0.5	0
44	Optoelectrofluidic Sandwich Immunoassays for Detection of Human Tumor Marker Using Surface-Enhanced Raman Scattering. Analytical Chemistry, 2010, 82, 7603-7610.	6.5	61
45	Programmable Cell Manipulation Using Lab-on-a-Display. NATO Science for Peace and Security Series A: Chemistry and Biology, 2010, , 595-613.	0.5	0
46	Dynamic control of local molecular concentration using optoelectrofluidic fluorescence microscopy. , 2009, , .		0
47	Generation and manipulation of droplets in an optoelectrofluidic device integrated with microfluidic channels. Applied Physics Letters, 2009, 95, .	3.3	18
48	Enhanced discrimination of normal oocytes using optically induced pulling-up dielectrophoretic force. Biomicrofluidics, 2009, 3, 014103.	2.4	69
49	Dynamic Light-Activated Control of Local Chemical Concentration in a Fluid. Analytical Chemistry, 2009, 81, 5865-5870.	6.5	25
50	Optoelectrofluidic Control of Colloidal Assembly in an Optically Induced Electric Field. Langmuir, 2009, 25, 6010-6014.	3.5	27
51	Measurement of Molecular Diffusion Based on Optoelectrofluidic Fluorescence Microscopy. Analytical Chemistry, 2009, 81, 9163-9167.	6.5	20
52	Direct rapid prototyping of PDMS from a photomask film for micropatterning of biomolecules and cells. Lab on A Chip, 2009, 9, 167-170.	6.0	43
53	Rapid and selective concentration of microparticles in an optoelectrofluidic platform. Lab on A Chip, 2009, 9, 199-206.	6.0	80
54	Interactive manipulation of blood cells using a lensâ€integrated liquid crystal display based optoelectronic tweezers system. Electrophoresis, 2008, 29, 1203-1212.	2.4	90

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55	Experimental Investigation of Electrostatic Particle~Particle Interactions in Optoelectronic Tweezers. Journal of Physical Chemistry B, 2008, 112, 9903-9908.	2.6	40
56	Reduction of nonspecific surface-particle interactions in optoelectronic tweezers. Applied Physics Letters, 2008, 92, 024108.	3.3	28
57	Programmable manipulation of motile cells in optoelectronic tweezers using a grayscale image. Applied Physics Letters, 2008, 93, .	3.3	47
58	Microfluidic Micropillar Arrays for 3D Cell Culture. Open Biotechnology Journal, 2008, 2, 224-228.	1.2	7
59	A Real-time Interactive Control System for Optical Manipulation of Microparticles using Liquid Crystal Display. , 2007, , .		0