

Jaewon Park

List of Publications by Year in descending order

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36
papers

1,047
citations

687363

13
h-index

434195

31
g-index

36
all docs

36
docs citations

36
times ranked

1713
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic m6A modification regulates local translation of mRNA in axons. <i>Nucleic Acids Research</i> , 2018, 46, 1412-1423.	14.5	265
2	Microfluidic compartmentalized co-culture platform for CNS axon myelination research. <i>Biomedical Microdevices</i> , 2009, 11, 1145-1153.	2.8	161
3	A Three-Dimensional Arrayed Microfluidic Blood-Brain Barrier Model With Integrated Electrical Sensor Array. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 431-439.	4.2	95
4	Multi-compartment neuron-glia co-culture platform for localized CNS axon-glia interaction study. <i>Lab on A Chip</i> , 2012, 12, 3296.	6.0	81
5	A microchip for quantitative analysis of CNS axon growth under localized biomolecular treatments. <i>Journal of Neuroscience Methods</i> , 2014, 221, 166-174.	2.5	58
6	Fabrication of high-aspect-ratio polymer nanochannels using a novel Si nanoimprint mold and solvent-assisted sealing. <i>Microfluidics and Nanofluidics</i> , 2010, 9, 163-170.	2.2	39
7	Enhancement of microalga <i>Haematococcus pluvialis</i> growth and astaxanthin production by electrical treatment. <i>Bioresource Technology</i> , 2018, 268, 815-819.	9.6	39
8	Engineering High-Resolution Micropatterns Directly onto Titanium with Optimized Contact Guidance to Promote Osteogenic Differentiation and Bone Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 43888-43901.	8.0	35
9	The Effect of Oil Viscosity on Droplet Generation Rate and Droplet Size in a T-Junction Microfluidic Droplet Generator. <i>Micromachines</i> , 2019, 10, 808.	2.9	35
10	Micro-macro hybrid soft-lithography master (MMHSM) fabrication for lab-on-a-chip applications. <i>Biomedical Microdevices</i> , 2010, 12, 345-351.	2.8	30
11	Micropatterning of poly(dimethylsiloxane) using a photoresist lift-off technique for selective electrical insulation of microelectrode arrays. <i>Journal of Micromechanics and Microengineering</i> , 2009, 19, 065016.	2.6	23
12	Microchemostat array with small-volume fraction replenishment for steady-state microbial culture. <i>Lab on A Chip</i> , 2013, 13, 4217.	6.0	21
13	Mechanical stress induced astaxanthin accumulation of <i>H. pluvialis</i> on a chip. <i>Lab on A Chip</i> , 2020, 20, 647-654.	6.0	16
14	A novel approach to enhance astaxanthin production in <i>Haematococcus lacustris</i> using a microstructure-based culture platform. <i>Algal Research</i> , 2019, 39, 101464.	4.6	15
15	A Multi-compartment CNS Neuron-glia Co-culture Microfluidic Platform. <i>Journal of Visualized Experiments</i> , 2009, , .	0.3	14
16	A Microchip for High-Throughput Axon Growth Drug Screening. <i>Micromachines</i> , 2016, 7, 114.	2.9	13
17	Optimization of PTFE Coating on PDMS Surfaces for Inhibition of Hydrophobic Molecule Absorption for Increased Optical Detection Sensitivity. <i>Sensors</i> , 2021, 21, 1754.	3.8	12
18	A magnetic resonance (MR) microscopy system using a microfluidically cryo-cooled planar coil. <i>Lab on A Chip</i> , 2011, 11, 2197.	6.0	10

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19	Application of electrical treatment on <i>Euglena gracilis</i> for increasing paramylon production. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 1031-1039.	3.6	10
20	Investigation of Infrared Photo-Detection Through Subgap Density-of-States in a-InGaZnO Thin-Film Transistors. <i>IEEE Electron Device Letters</i> , 2017, 38, 584-587.	3.9	8
21	Rapid and Accurate Quantification of Paramylon Produced from <i>Euglena gracilis</i> Using an ssDNA Aptamer. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 402-408.	5.2	8
22	Microfluidic systems for axonal growth and regeneration research. <i>Neural Regeneration Research</i> , 2014, 9, 1703.	3.0	8
23	Hybrid Open Drain Method and Fully Current-Based Characterization of Asymmetric Resistance Components in a Single MOSFET. <i>IEEE Transactions on Electron Devices</i> , 2016, 63, 4196-4200.	3.0	7
24	Mechanical segregation and capturing of clonal circulating plasma cells in multiple myeloma using micropillar-integrated microfluidic device. <i>Biomicrofluidics</i> , 2019, 13, 064114.	2.4	7
25	Liquid metal embedded real time microfluidic flow pressure monitoring sensor. <i>Sensors and Actuators A: Physical</i> , 2020, 305, 111909.	4.1	7
26	Fluorogenic "on-off" nanosensor based on dual-quenching effect for imaging intracellular metabolite of various microalgae. <i>Biosensors and Bioelectronics</i> , 2022, 198, 113839.	10.1	6
27	Wearable Intracranial Pressure Monitoring Sensor for Infants. <i>Biosensors</i> , 2021, 11, 213.	4.7	5
28	High-Aspect-Ratio Microfluidic Channel with Parallelogram Cross-Section for Monodisperse Droplet Generation. <i>Biosensors</i> , 2022, 12, 118.	4.7	5
29	Simultaneous probing of dual intracellular metabolites (ATP and paramylon) in live microalgae using graphene oxide/aptamer nanocomplex. <i>Mikrochimica Acta</i> , 2022, 189, 88.	5.0	4
30	Lateral-flow particle filtration and separation with multilayer microfluidic channels. <i>Journal of Vacuum Science & Technology B</i> , 2009, 27, 3115.	1.3	3
31	Band-Bending Effect in the Characterization of Subgap Density-of-States in Amorphous TFTs Through Fully Electrical Techniques. <i>IEEE Electron Device Letters</i> , 2017, 38, 199-202.	3.9	3
32	Liquid-Phase Capillary Etching of Poly(Dimethylsiloxane) Microchannels With Tetra-n-Butylammonium Fluoride. <i>Journal of Microelectromechanical Systems</i> , 2014, 23, 276-283.	2.5	2
33	Detection of Particulate Matters with a Field-Portable Microscope Using Side-Illuminated Total Internal Reflection. <i>Sensors</i> , 2021, 21, 2745.	3.8	2
34	An integrated microfluidic cryo-cooled planar coil system for magnetic resonance imaging (MRI). , 2010, , .		0
35	Axon Length Quantification Microfluidic Culture Platform for Growth and Regeneration Study. <i>Methods in Molecular Biology</i> , 2014, 1162, 85-95.	0.9	0
36	Multi-compartment Neuron-Glia Coculture Microsystem. <i>Neuromethods</i> , 2015, , 149-159.	0.3	0