

Joong Yull Park

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

2,284
citations

257450

24
h-index

223800

46
g-index

61
all docs

61
docs citations

61
times ranked

3451
citing authors

#	ARTICLE	IF	CITATIONS
1	DKK3, Downregulated in Invasive Epithelial Ovarian Cancer, Is Associated with Chemoresistance and Enhanced Paclitaxel Susceptibility via Inhibition of the β^2 -Catenin-P-Glycoprotein Signaling Pathway. <i>Cancers</i> , 2022, 14, 924.	3.7	2
2	Customized Multilayered Tissue-on-a-Chip (MToC) to Simulate Bacillus Calmette-Guérin (BCG) Immunotherapy for Bladder Cancer Treatment. <i>Biochip Journal</i> , 2022, 16, 67-81.	4.9	11
3	Engineered Microsystems for Spheroid and Organoid Studies. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001284.	7.6	51
4	Novel microwell with a roof capable of buoyant spheroid culture. <i>Lab on A Chip</i> , 2021, 21, 1974-1986.	6.0	8
5	Establishment of Three-Dimensional Bioprinted Bladder Cancer-on-a-Chip with a Microfluidic System Using Bacillus Calmette-Guérin. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8887.	4.1	12
6	Coarsening behavior of bulk nanobubbles in water. <i>Scientific Reports</i> , 2021, 11, 19173.	3.3	9
7	Three-dimensional cartilage tissue regeneration system harnessing goblet-shaped microwells containing biocompatible hydrogel. <i>Biofabrication</i> , 2020, 12, 015019.	7.1	9
8	Effects of the Angled Blades of Extremely Small Wind Turbines on Energy Harvesting Performance. <i>Mathematics</i> , 2020, 8, 1295.	2.2	2
9	Membrane-bottomed microwell array added to Transwell insert to facilitate non-contact co-culture of spermatogonial stem cell and STO feeder cell. <i>Biofabrication</i> , 2020, 12, 045031.	7.1	17
10	Floating-on-water Fabrication Method for Thin Polydimethylsiloxane Membranes. <i>Polymers</i> , 2019, 11, 1264.	4.5	17
11	Additive Aerodynamic and Thermal Effects of a Central Guide Post and Baffle Installed in a Solar Updraft Tower. <i>Energies</i> , 2019, 12, 3506.	3.1	1
12	PDMS double casting method enabled by plasma treatment and alcohol passivation. <i>Sensors and Actuators B: Chemical</i> , 2019, 293, 115-121.	7.8	27
13	Harmonisation of Coolant Flow Pattern with Wake of Stator Vane to Improve Sealing Effectiveness Using a Wave-Shaped Rim Seal. <i>Energies</i> , 2019, 12, 1060.	3.1	1
14	Thermo-Fluid Dynamic Effects of the Radial Location of the Baffle Installed in a Solar Updraft Tower. <i>Energies</i> , 2019, 12, 1340.	3.1	4
15	Lab-on-a-CD Platform for Generating Multicellular Three-dimensional Spheroids. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	2
16	Effect of off-plane bifurcation angles of primary bronchi on expiratory flows in the human trachea. <i>Computers in Biology and Medicine</i> , 2018, 95, 63-74.	7.0	6
17	A Paired Bead and Magnet Array for Molding Microwells with Variable Concave Geometries. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	7
18	Networked concave microwell arrays for constructing 3D cell spheroids. <i>Biofabrication</i> , 2018, 10, 015001.	7.1	37

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19	Stand-alone external power-free microfluidic fuel cell system harnessing osmotic pump for long-term operation. <i>Journal of Micromechanics and Microengineering</i> , 2018, 28, 125005.	2.6	11
20	Microfluidic Biosensor Based on Microwave Substrate-Integrated Waveguide Cavity Resonator. <i>Journal of Sensors</i> , 2018, 2018, 1-13.	1.1	41
21	Fabrication of omega-shaped microwell arrays for a spheroid culture platform using pins of a commercial CPU to minimize cell loss and crosstalk. <i>Biofabrication</i> , 2018, 10, 045003.	7.1	18
22	Numerical Investigation on the Effects of Baffles with Various Thermal and Geometrical Conditions on Thermo-Fluid Dynamics and Kinetic Power of a Solar Updraft Tower. <i>Energies</i> , 2018, 11, 2230.	3.1	4
23	Responses of human adipose-derived stem cells to interstitial level of extremely low shear flows regarding differentiation, morphology, and proliferation. <i>Lab on A Chip</i> , 2017, 17, 2115-2124.	6.0	19
24	Hypergravity-induced multicellular spheroid generation with different morphological patterns precisely controlled on a centrifugal microfluidic platform. <i>Biofabrication</i> , 2017, 9, 045006.	7.1	18
25	Pattern-coated titanium bone fixation plate for dual delivery of vancomycin and alendronate. <i>Macromolecular Research</i> , 2017, 25, 756-762.	2.4	6
26	Concomitant differentiation of a population of mouse embryonic stem cells into neuron-like cells and schwann cell-like cells in a slow-flow microfluidic device. <i>Developmental Dynamics</i> , 2017, 246, 7-27.	1.8	10
27	Features of Microsystems for Cultivation and Characterization of Stem Cells with the Aim of Regenerative Therapy. <i>Stem Cells International</i> , 2016, 2016, 1-13.	2.5	4
28	A numerical study of the Coriolis effect in centrifugal microfluidics with different channel arrangements. <i>Microfluidics and Nanofluidics</i> , 2016, 20, 1.	2.2	5
29	Magnetic force-assisted self-locking metallic bead array for fabrication of diverse concave microwell geometries. <i>Lab on A Chip</i> , 2016, 16, 3565-3575.	6.0	24
30	Concise Review: Stem Cell Microenvironment on a Chip: Current Technologies for Tissue Engineering and Stem Cell Biology. <i>Stem Cells Translational Medicine</i> , 2015, 4, 1352-1368.	3.3	67
31	Microplatforms for Gradient Field Generation of Various Properties and Biological Applications. <i>Journal of the Association for Laboratory Automation</i> , 2015, 20, 82-95.	2.8	11
32	Deformable L-shaped microwell array for trapping pairs of heterogeneous cells. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 035005.	2.6	12
33	Shear Stress Induced by an Interstitial Level of Slow Flow Increases the Osteogenic Differentiation of Mesenchymal Stem Cells through TAZ Activation. <i>PLoS ONE</i> , 2014, 9, e92427.	2.5	158
34	Estimation of saline-mixed tissue conductivity and ablation lesion size. <i>Computers in Biology and Medicine</i> , 2013, 43, 504-512.	7.0	14
35	Microwell fabrication methods and applications for cellular studies. <i>Biomedical Engineering Letters</i> , 2013, 3, 131-137.	4.1	41
36	Neurotoxic amyloid beta oligomeric assemblies recreated in microfluidic platform with interstitial level of slow flow. <i>Scientific Reports</i> , 2013, 3, 1921.	3.3	75

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37	The Need of Slanted Side Holes for Venous Cannulae. <i>Computational and Mathematical Methods in Medicine</i> , 2012, 2012, 1-7.	1.3	12
38	Surface chemistry modification of PDMS elastomers with boiling water improves cellular adhesion. <i>Sensors and Actuators B: Chemical</i> , 2012, 173, 765-771.	7.8	26
39	Microfluidic Automation Using Elastomeric Valves and Droplets: Reducing Reliance on External Controllers. <i>Small</i> , 2012, 8, 2925-2934.	10.0	32
40	A low-energy-consumption electroactive valveless hydrogel micropump for long-term biomedical applications. <i>Lab on A Chip</i> , 2011, 11, 2910.	6.0	38
41	Next-generation integrated microfluidic circuits. <i>Lab on A Chip</i> , 2011, 11, 2813.	6.0	227
42	Single cell trapping in larger microwells capable of supporting cell spreading and proliferation. <i>Microfluidics and Nanofluidics</i> , 2010, 8, 263-268.	2.2	90
43	Increased poly(dimethylsiloxane) stiffness improves viability and morphology of mouse fibroblast cells. <i>Biochip Journal</i> , 2010, 4, 230-236.	4.9	93
44	Fabrication of three-dimensional microarray structures by controlling the thickness and elasticity of poly(dimethylsiloxane) membrane. <i>Biomedical Microdevices</i> , 2010, 12, 49-54.	2.8	22
45	Cell morphological response to low shear stress in a two-dimensional culture microsystem with magnitudes comparable to interstitial shear stress. <i>Biorheology</i> , 2010, 47, 165-178.	0.4	29
46	Regulating microenvironmental stimuli for stem cells and cancer cells using microsystems. <i>Integrative Biology (United Kingdom)</i> , 2010, 2, 229.	1.3	66
47	Electrically-driven hydrogel actuators in microfluidic channels: fabrication, characterization, and biological application. <i>Lab on A Chip</i> , 2010, 10, 1604.	6.0	84
48	Ice-lithographic fabrication of concave microwells and a microfluidic network. <i>Biomedical Microdevices</i> , 2009, 11, 129-133.	2.8	54
49	Differentiation of Neural Progenitor Cells in a Microfluidic Chip-Generated Cytokine Gradient. <i>Stem Cells</i> , 2009, 27, 2646-2654.	3.2	155
50	Quantitative Analysis of Pulsatile Flow Contribution to Ultrafiltration. <i>Artificial Organs</i> , 2009, 33, 69-73.	1.9	9
51	Study of cellular behaviors on concave and convex microstructures fabricated from elastic PDMS membranes. <i>Lab on A Chip</i> , 2009, 9, 2043.	6.0	120
52	Simultaneous generation of chemical concentration and mechanical shear stress gradients using microfluidic osmotic flow comparable to interstitial flow. <i>Lab on A Chip</i> , 2009, 9, 2194.	6.0	72
53	DNA-Enrichment Microfluidic Chip for Chromatin Immunoprecipitation. <i>Analytical Chemistry</i> , 2009, 81, 2832-2839.	6.5	20
54	Development of a Cold Dialysate Regeneration System for Home Hemodialysis. <i>Blood Purification</i> , 2009, 28, 84-92.	1.8	15

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55	DNA hybridization detection in a microfluidic channel using two fluorescently labelled nucleic acid probes. <i>Biosensors and Bioelectronics</i> , 2008, 23, 1878-1882.	10.1	57
56	Biomimetic Soft Multifunctional Miniature Aquabots. <i>Small</i> , 2008, 4, 2148-2153.	10.0	158
57	Computational dose predictions for combined treatment of hemofiltration with weekly hemodialysis. <i>Computer Methods and Programs in Biomedicine</i> , 2008, 89, 275-281.	4.7	4
58	Control of Plural Number of Arrayed Microvalves using pH-responsive Hydrogel. , 2007, , .		0
59	Arrayed pH-responsive microvalves controlled by multiphase laminar flow. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, 1985-1991.	2.6	20
60	Gradient generation by an osmotic pump and the behavior of human mesenchymal stem cells under the fetal bovine serum concentration gradient. <i>Lab on A Chip</i> , 2007, 7, 1673.	6.0	102
61	Pseudo-organ boundary conditions applied to a computational fluid dynamics model of the human aorta. <i>Computers in Biology and Medicine</i> , 2007, 37, 1063-1072.	7.0	18