Hansang Cho

List of Publications by Year in descending order

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37 papers	2,978 citations	257357 24 h-index	330025 37 g-index
42 all docs	42 docs citations	42 times ranked	5017 citing authors

#	Article	IF	Citations
1	TREM2 regulates purinergic receptor-mediated calcium signaling and motility in human iPSC-derived microglia. ELife, 2022, 11, .	2.8	31
2	Adipokine human Resistin promotes obesity-associated inflammatory intervertebral disc degeneration via pro-inflammatory cytokine cascade activation. Scientific Reports, 2022, 12, .	1.6	10
3	Human mini-brain models. Nature Biomedical Engineering, 2021, 5, 11-25.	11.6	49
4	Time-Dependent Internalization of Polymer-Coated Silica Nanoparticles in Brain Endothelial Cells and Morphological and Functional Effects on the Blood-Brain Barrier. International Journal of Molecular Sciences, 2021, 22, 1657.	1.8	5
5	Oral Pathogenic Bacteria-Inducing Neurodegenerative Microgliosis in Human Neural Cell Platform. International Journal of Molecular Sciences, 2021, 22, 6925.	1.8	12
6	An Air Particulate Pollutant Induces Neuroinflammation and Neurodegeneration in Human Brain Models. Advanced Science, 2021, 8, e2101251.	5.6	55
7	Severe reactive astrocytes precipitate pathological hallmarks of Alzheimerâ€™s disease via H2O2â^' production. Nature Neuroscience, 2020, 23, 1555-1566.	7.1	154
8	Gene expression and functional deficits underlie TREM2-knockout microglia responses in human models of Alzheimerâ€™s disease. Nature Communications, 2020, 11, 5370.	5.8	160
9	Therapeutic Targeting Strategies for Early- to Late-Staged Alzheimerâ€™s Disease. International Journal of Molecular Sciences, 2020, 21, 9591.	1.8	24
10	Mimicry of Central-Peripheral Immunity in Alzheimer's Disease and Discovery of Neurodegenerative Roles in Neutrophil. Frontiers in Immunology, 2019, 10, 2231.	2.2	20
11	Electrical impulse effects on degenerative human annulus fibrosus model to reduce disc pain using micro-electrical impulse-on-a-chip. Scientific Reports, 2019, 9, 5827.	1.6	12
12	Droplet Array-Based 3D Coculture System for High-Throughput Tumor Angiogenesis Assay. Analytical Chemistry, 2018, 90, 3253-3261.	3.2	38
13	3D Miniaturization of Human Organs for Drug Discovery. Advanced Healthcare Materials, 2018, 7, 1700551.	3.9	33
14	Therapeutic nanoplatforms and delivery strategies for neurological disorders. Nano Convergence, 2018, 5, 35.	6.3	65
15	A liver-immune coculture array for predicting systemic drug-induced skin sensitization. Lab on A Chip, 2018, 18, 3239-3250.	3.1	19
16	Elucidating the Interactive Roles of Glia in Alzheimer's Disease Using Established and Newly Developed Experimental Models. Frontiers in Neurology, 2018, 9, 797.	1.1	44
17	A 3D human triculture system modeling neurodegeneration and neuroinflammation in Alzheimerâ€™s disease. Nature Neuroscience, 2018, 21, 941-951.	7.1	458
18	Spine-on-a-chip: Human annulus fibrosus degeneration model for simulating the severity of intervertebral discâ€‰degeneration. Biomicrofluidics, 2017, 11, 064107.	1.2	14

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19	Microscale arrays for the profiling of start and stop signals coordinating human-neutrophil swarming. Nature Biomedical Engineering, 2017, 1, .	11.6	74
20	Three-Dimensional Blood-Brain Barrier Model for in vitro Studies of Neurovascular Pathology. Scientific Reports, 2015, 5, 15222.	1.6	162
21	A Food and Drug Administration-approved Asthma Therapeutic Agent Impacts Amyloid Î² in the Brain in a Transgenic Model of Alzheimer Disease. Journal of Biological Chemistry, 2015, 290, 1966-1978.	1.6	65
22	Neuronal uptake and propagation of a rare phosphorylated high-molecular-weight tau derived from Alzheimerâ€™s disease brain. Nature Communications, 2015, 6, 8490.	5.8	283
23	Synthesis of Cell-Adhesive Anisotropic Multifunctional Particles by Stop Flow Lithography and Streptavidinâ€“Biotin Interactions. Langmuir, 2015, 31, 13165-13171.	1.6	29
24	Migration of neutrophils targeting amyloid plaques in Alzheimer's disease mouse model. Neurobiology of Aging, 2014, 35, 1286-1292.	1.5	146
25	On-demand, competing gradient arrays for neutrophil chemotaxis. Lab on A Chip, 2014, 14, 972-978.	3.1	36
26	Retrotaxis of human neutrophils during mechanical confinement inside microfluidic channels. Integrative Biology (United Kingdom), 2014, 6, 175-183.	0.6	62
27	Microfluidic Chemotaxis Platform for Differentiating the Roles of Soluble and Bound Amyloid-Î² on Microglial Accumulation. Scientific Reports, 2013, 3, 1823.	1.6	82
28	Single-Step Nanoplasmonic VEGF₁₆₅ Aptasensor for Early Cancer Diagnosis. ACS Nano, 2012, 6, 7607-7614.	7.3	127
29	Biologically inspired porous cooling membrane using arrayed-droplets evaporation. Applied Physics Letters, 2010, 96, 163703.	1.5	26
30	Direct detection of aptamer-thrombin binding via surface-enhanced Raman spectroscopy. Journal of Biomedical Optics, 2010, 15, 047006.	1.4	39
31	Abstract 2721: Real-time and label-free aptasensor of VEGF for cancer diagnostics. , 2010, , .		0
32	Label-free and highly sensitive biomolecular detection using SERS and electrokinetic preconcentration. Lab on A Chip, 2009, 9, 3360.	3.1	118
33	Additional amplifications of SERSvia an optofluidic CD-based platform. Lab on A Chip, 2009, 9, 239-243.	3.1	72
34	Aptamer-Based SERRS Sensor for Thrombin Detection. Nano Letters, 2008, 8, 4386-4390.	4.5	185
35	How the capillary burst microvalve works. Journal of Colloid and Interface Science, 2007, 306, 379-385.	5.0	247
36	A microfluidic protease activity assay based on the detection of fluorescence polarization. Analytica Chimica Acta, 2006, 577, 171-177.	2.6	8

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37	Human brain organoids in Alzheimerâ€™s disease. Organoid, 0, 1, e5.	0.0	7