

Hansang Cho

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

2,978
citations

257357

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330025

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42
all docs

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docs citations

42
times ranked

5017
citing authors

#	ARTICLE	IF	CITATIONS
1	A 3D human triculture system modeling neurodegeneration and neuroinflammation in Alzheimer's disease. <i>Nature Neuroscience</i> , 2018, 21, 941-951.	7.1	458
2	Neuronal uptake and propagation of a rare phosphorylated high-molecular-weight tau derived from Alzheimer's disease brain. <i>Nature Communications</i> , 2015, 6, 8490.	5.8	283
3	How the capillary burst microvalve works. <i>Journal of Colloid and Interface Science</i> , 2007, 306, 379-385.	5.0	247
4	Aptamer-Based SERRS Sensor for Thrombin Detection. <i>Nano Letters</i> , 2008, 8, 4386-4390.	4.5	185
5	Three-Dimensional Blood-Brain Barrier Model for in vitro Studies of Neurovascular Pathology. <i>Scientific Reports</i> , 2015, 5, 15222.	1.6	162
6	Gene expression and functional deficits underlie TREM2-knockout microglia responses in human models of Alzheimer's disease. <i>Nature Communications</i> , 2020, 11, 5370.	5.8	160
7	Severe reactive astrocytes precipitate pathological hallmarks of Alzheimer's disease via H ₂ O ₂ production. <i>Nature Neuroscience</i> , 2020, 23, 1555-1566.	7.1	154
8	Migration of neutrophils targeting amyloid plaques in Alzheimer's disease mouse model. <i>Neurobiology of Aging</i> , 2014, 35, 1286-1292.	1.5	146
9	Single-Step Nanoplasmonic VEGF ₁₆₅ Aptasensor for Early Cancer Diagnosis. <i>ACS Nano</i> , 2012, 6, 7607-7614.	7.3	127
10	Label-free and highly sensitive biomolecular detection using SERS and electrokinetic preconcentration. <i>Lab on A Chip</i> , 2009, 9, 3360.	3.1	118
11	Microfluidic Chemotaxis Platform for Differentiating the Roles of Soluble and Bound Amyloid- β on Microglial Accumulation. <i>Scientific Reports</i> , 2013, 3, 1823.	1.6	82
12	Microscale arrays for the profiling of start and stop signals coordinating human-neutrophil swarming. <i>Nature Biomedical Engineering</i> , 2017, 1, .	11.6	74
13	Additional amplifications of SERS via an optofluidic CD-based platform. <i>Lab on A Chip</i> , 2009, 9, 239-243.	3.1	72
14	A Food and Drug Administration-approved Asthma Therapeutic Agent Impacts Amyloid β in the Brain in a Transgenic Model of Alzheimer Disease. <i>Journal of Biological Chemistry</i> , 2015, 290, 1966-1978.	1.6	65
15	Therapeutic nanoplatforms and delivery strategies for neurological disorders. <i>Nano Convergence</i> , 2018, 5, 35.	6.3	65
16	Retrotaxis of human neutrophils during mechanical confinement inside microfluidic channels. <i>Integrative Biology (United Kingdom)</i> , 2014, 6, 175-183.	0.6	62
17	An Air Particulate Pollutant Induces Neuroinflammation and Neurodegeneration in Human Brain Models. <i>Advanced Science</i> , 2021, 8, e2101251.	5.6	55
18	Human mini-brain models. <i>Nature Biomedical Engineering</i> , 2021, 5, 11-25.	11.6	49

#	ARTICLE	IF	CITATIONS
19	Elucidating the Interactive Roles of Glia in Alzheimer's Disease Using Established and Newly Developed Experimental Models. <i>Frontiers in Neurology</i> , 2018, 9, 797.	1.1	44
20	Direct detection of aptamer-thrombin binding via surface-enhanced Raman spectroscopy. <i>Journal of Biomedical Optics</i> , 2010, 15, 047006.	1.4	39
21	Droplet Array-Based 3D Coculture System for High-Throughput Tumor Angiogenesis Assay. <i>Analytical Chemistry</i> , 2018, 90, 3253-3261.	3.2	38
22	On-demand, competing gradient arrays for neutrophil chemotaxis. <i>Lab on A Chip</i> , 2014, 14, 972-978.	3.1	36
23	3D Miniaturization of Human Organs for Drug Discovery. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700551.	3.9	33
24	TREM2 regulates purinergic receptor-mediated calcium signaling and motility in human iPSC-derived microglia. <i>ELife</i> , 2022, 11, .	2.8	31
25	Synthesis of Cell-Adhesive Anisotropic Multifunctional Particles by Stop Flow Lithography and Streptavidin-Biotin Interactions. <i>Langmuir</i> , 2015, 31, 13165-13171.	1.6	29
26	Biologically inspired porous cooling membrane using arrayed-droplets evaporation. <i>Applied Physics Letters</i> , 2010, 96, 163703.	1.5	26
27	Therapeutic Targeting Strategies for Early- to Late-Staged Alzheimer's Disease. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9591.	1.8	24
28	Mimicry of Central-Peripheral Immunity in Alzheimer's Disease and Discovery of Neurodegenerative Roles in Neutrophil. <i>Frontiers in Immunology</i> , 2019, 10, 2231.	2.2	20
29	A liver-immune coculture array for predicting systemic drug-induced skin sensitization. <i>Lab on A Chip</i> , 2018, 18, 3239-3250.	3.1	19
30	Spine-on-a-chip: Human annulus fibrosus degeneration model for simulating the severity of intervertebral disc degeneration. <i>Biomicrofluidics</i> , 2017, 11, 064107.	1.2	14
31	Electrical impulse effects on degenerative human annulus fibrosus model to reduce disc pain using micro-electrical impulse-on-a-chip. <i>Scientific Reports</i> , 2019, 9, 5827.	1.6	12
32	Oral Pathogenic Bacteria-Inducing Neurodegenerative Microgliosis in Human Neural Cell Platform. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6925.	1.8	12
33	Adipokine human Resistin promotes obesity-associated inflammatory intervertebral disc degeneration via pro-inflammatory cytokine cascade activation. <i>Scientific Reports</i> , 2022, 12, .	1.6	10
34	A microfluidic protease activity assay based on the detection of fluorescence polarization. <i>Analytica Chimica Acta</i> , 2006, 577, 171-177.	2.6	8
35	Human brain organoids in Alzheimer's disease. <i>Organoid</i> , 0, 1, e5.	0.0	7
36	Time-Dependent Internalization of Polymer-Coated Silica Nanoparticles in Brain Endothelial Cells and Morphological and Functional Effects on the Blood-Brain Barrier. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1657.	1.8	5

#	ARTICLE	IF	CITATIONS
37	Abstract 2721: Real-time and label-free aptasensor of VEGF for cancer diagnostics. , 2010, , .		0