Yoojin Shin

List of Publications by Year in descending order

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31 papers	2,909 citations	361413 20 h-index	454955 30 g-index
33 all docs	33 docs citations	33 times ranked	4445 citing authors

#	Article	IF	Citations
1	Microfluidic assay for simultaneous culture of multiple cell types on surfaces or within hydrogels. Nature Protocols, 2012, 7, 1247-1259.	12.0	518
2	3D self-organized microvascular model of the human blood-brain barrier with endothelial cells, pericytes and astrocytes. Biomaterials, 2018, 180, 117-129.	11.4	499
3	On-chip human microvasculature assay for visualization and quantification of tumor cell extravasation dynamics. Nature Protocols, 2017, 12, 865-880.	12.0	297
4	Co-Culture of Tumor Spheroids and Fibroblasts in a Collagen Matrix-Incorporated Microfluidic Chip Mimics Reciprocal Activation in Solid Tumor Microenvironment. PLoS ONE, 2016, 11, e0159013.	2.5	205
5	Application of single-cell RNA sequencing in optimizing a combinatorial therapeutic strategy in metastatic renal cell carcinoma. Genome Biology, 2016, 17, 80.	8.8	170
6	Bloodâ€“Brain Barrier Dysfunction in a 3D In Vitro Model of Alzheimer's Disease. Advanced Science, 2019, 6, 1900962.	11.2	168
7	In vitro 3D collective sprouting angiogenesis under orchestrated ANG-1 and VEGF gradients. Lab on A Chip, 2011, 11, 2175.	6.0	142
8	Sprouting Angiogenesis under a Chemical Gradient Regulated by Interactions with an Endothelial Monolayer in a Microfluidic Platform. Analytical Chemistry, 2011, 83, 8454-8459.	6.5	102
9	In Vitro Microfluidic Models for Neurodegenerative Disorders. Advanced Healthcare Materials, 2018, 7, 1700489.	7.6	98
10	A versatile assay for monitoring in vivo-like transendothelial migration of neutrophils. Lab on A Chip, 2012, 12, 3861.	6.0	93
11	Engineered human bloodâ€“brain barrier microfluidic model for vascular permeability analyses. Nature Protocols, 2022, 17, 95-128.	12.0	79
12	Macrophagesâ€Triggered Sequential Remodeling of Endotheliumâ€Interstitial Matrix to Formâ€Metastatic Niche in Microfluidic Tumor Microenvironment. Advanced Science, 2019, 6, 1900195.	11.2	74
13	Three-dimensional extracellular matrix-mediated neural stem cell differentiation in a microfluidic device. Lab on A Chip, 2012, 12, 2305.	6.0	61
14	Reconstituting Vascular Microenvironment of Neural Stem Cell Niche in Threeâ€Dimensional Extracellular Matrix. Advanced Healthcare Materials, 2014, 3, 1457-1464.	7.6	58
15	A microfluidic array for quantitative analysis of human neural stem cell self-renewal and differentiation in three-dimensional hypoxic microenvironment. Biomaterials, 2013, 34, 6607-6614.	11.4	44
16	The CCL2-CCR2 astrocyte-cancer cell axis in tumor extravasation at the brain. Science Advances, 2021, 7, .	10.3	40
17	Convective exosome-tracing microfluidics for analysis of cell-non-autonomous neurogenesis. Biomaterials, 2017, 112, 82-94.	11.4	39
18	Extracellular Matrix Heterogeneity Regulates Threeâ€Dimensional Morphologies of Breast Adenocarcinoma Cell Invasion. Advanced Healthcare Materials, 2013, 2, 790-794.	7.6	33

#	Article	IF	Citations
19	Constructive remodeling of a synthetic endothelial extracellular matrix. Scientific Reports, 2016, 5, 18290.	3.3	28
20	Intratumoral phenotypic heterogeneity as an encourager of cancer invasion. Integrative Biology (United Kingdom), 2014, 6, 654-661.	1.3	25
21	Physiologic flow-conditioning limits vascular dysfunction in engineered human capillaries. Biomaterials, 2022, 280, 121248.	11.4	23
22	Microheart: A microfluidic pump for functional vascular culture in microphysiological systems. Journal of Biomechanics, 2021, 119, 110330.	2.1	21
23	Clonorchis sinensis Infestation Promotes Three-Dimensional Aggregation and Invasion of Cholangiocarcinoma Cells. PLoS ONE, 2014, 9, e110705.	2.5	19
24	Microphysiological models of neurological disorders for drug development. Current Opinion in Biomedical Engineering, 2020, 13, 119-126.	3.4	18
25	Implantable microfluidic device for the formation of three-dimensional vasculature by human endothelial progenitor cells. Biotechnology and Bioprocess Engineering, 2014, 19, 379-385.	2.6	16
26	Ethanol-dispersed and antibody-conjugated polymer nanofibers for the selective capture and 3-dimensional culture of EpCAM-positive cells. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 1617-1625.	3.3	16
27	Microfluidic platforms for the study of cancer metastasis. Biomedical Engineering Letters, 2012, 2, 72-77.	4.1	13
28	Integrated Vascular Engineering: Vascularization of Reconstructed Tissue. , 2016, , 297-332.		3
29	Pre-Metastatic Niches: Macrophages-Triggered Sequential Remodeling of Endothelium-Interstitial Matrix to Form Pre-Metastatic Niche in Microfluidic Tumor Microenvironment (Adv. Sci. 11/2019). Advanced Science, 2019, 6, 1970068.	11.2	2
30	Hydrogels: Extracellular Matrix Heterogeneity Regulates Threeâ€Ðimensional Morphologies of Breast Adenocarcinoma Cell Invasion (Adv. Healthcare Mater. 6/2013). Advanced Healthcare Materials, 2013, 2, 920-920.	7.6	1
31	Study of tumor angiogenesis using microfluidic approaches. , 0, , 330-346.		0