Joe Tien

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9232332/publications.pdf

Version: 2024-02-01

42 papers	2,677 citations	331670 21 h-index	315739 38 g-index
42 all docs	42 docs citations	42 times ranked	3159 citing authors

#	Article	IF	Citations
1	Adipose Stroma Accelerates the Invasion and Escape of Human Breast Cancer Cells from an Engineered Microtumor. Cellular and Molecular Bioengineering, 2022, 15, 15-29.	2.1	4
2	Methods for Forming Human Lymphatic Microvessels In Vitro and Assessing their Drainage Function. Methods in Molecular Biology, 2022, 2394, 651-668.	0.9	0
3	Comparison of blind deconvolution- and Patlak analysis-based methods for determining vascular permeability. Microvascular Research, 2021, 133, 104102.	2.5	2
4	Interstitial Hypertension Suppresses Escape of Human Breast Tumor Cells Via Convection of Interstitial Fluid. Cellular and Molecular Bioengineering, 2021, 14, 147-159.	2.1	13
5	Microfluidic Biomaterials. Advanced Healthcare Materials, 2021, 10, e2001028.	7.6	18
6	Matrix degradation and cell proliferation are coupled to promote invasion and escape from an engineered human breast microtumor. Integrative Biology (United Kingdom), 2021, 13, 17-29.	1.3	8
7	Matrix Pore Size Governs Escape of Human Breast Cancer Cells from a Microtumor to an Empty Cavity. IScience, 2020, 23, 101673.	4.1	29
8	Evaluation of 1â€mmâ€diameter endothelialized dense collagen tubes in vascular microsurgery. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 2441-2449.	3.4	9
9	Tissue Engineering of the Microvasculature. , 2019, 9, 1155-1212.		20
10	Engineering of microscale vascularized fat that responds to perfusion with lipoactive hormones. Biofabrication, 2019, 11, 014101.	7.1	19
11	Design principles for lymphatic drainage of fluid and solutes from collagen scaffolds. Journal of Biomedical Materials Research - Part A, 2018, 106, 106-114.	4.0	24
12	Generation, Endothelialization, and Microsurgical Suture Anastomosis of Strong 1-mm-Diameter Collagen Tubes. Tissue Engineering - Part A, 2017, 23, 335-344.	3.1	33
13	A 3D Culture Model to Study How Fluid Pressure and Flow Affect the Behavior of Aggregates of Epithelial Cells. Methods in Molecular Biology, 2017, 1501, 245-257.	0.9	10
14	Interstitial fluid pressure regulates collective invasion in engineered human breast tumorsviaSnail, vimentin, and E-cadherin. Integrative Biology (United Kingdom), 2016, 8, 319-331.	1.3	81
15	Physical and Chemical Signals That Promote Vascularization of Capillary-Scale Channels. Cellular and Molecular Bioengineering, 2016, 9, 73-84.	2.1	39
16	Vascularization of capillary-scale channels in type I collagen gels. , 2015, , .		0
17	Dynamics of Interstitial Fluid Pressure in Extracellular Matrix Hydrogels in Microfluidic Devices. Journal of Biomechanical Engineering, 2015, 137, .	1.3	9
18	Crosslinking of collagen scaffolds promotes blood and lymphatic vascular stability. Journal of Biomedical Materials Research - Part A, 2014, 102, 3186-3195.	4.0	51

#	Article	IF	Citations
19	Non-invasive mapping of interstitial fluid pressure in microscale tissues. Integrative Biology (United) Tj ETQq1 1 0.784314 rgBT /Overl	1.3	1
20	Microstructured Extracellular Matrices in Tissue Engineering and Development: An Update. Annals of Biomedical Engineering, 2014, 42, 1413-1423.	2.5	18
21	Microfluidic approaches for engineering vasculature. Current Opinion in Chemical Engineering, 2014, 3, 36-41.	7.8	38
22	Vascularization of Microfluidic Hydrogels. , 2013, , 205-221.		6
23	Determination of vascular permeability coefficients under slow luminal filling. Microvascular Research, 2013, 90, 117-120.	2.5	2
24	Artificial lymphatic drainage systems for vascularized microfluidic scaffolds. Journal of Biomedical Materials Research - Part A, 2013, 101A, 2181-2190.	4.0	62
25	Crosslinking of collagen scaffolds promotes blood and lymphatic vascular stability. Journal of Biomedical Materials Research - Part A, 2013, 102, n/a-n/a.	4.0	1
26	Microfluidic Models of Vascular Functions. Annual Review of Biomedical Engineering, 2012, 14, 205-230.	12.3	208
27	Plasma expanders stabilize human microvessels in microfluidic scaffolds. Journal of Biomedical Materials Research - Part A, 2012, 100A, 1815-1822.	4.0	37
28	Modulation of Invasive Phenotype by Interstitial Pressure-Driven Convection in Aggregates of Human Breast Cancer Cells. PLoS ONE, 2012, 7, e45191.	2.5	40
29	Perfusion systems that minimize vascular volume fraction in engineered tissues. Biomicrofluidics, 2011, 5, 022201.	2.4	15
30	Methods for Forming Human Microvascular Tubes In Vitro and Measuring Their Macromolecular Permeability. Methods in Molecular Biology, 2011, 671, 281-293.	0.9	49
31	The role of cyclic AMP in normalizing the function of engineered human blood microvessels in microfluidic collagen gels. Biomaterials, 2010, 31, 4706-4714.	11.4	65
32	Effect of mechanical factors on the function of engineered human blood microvessels in microfluidic collagen gels. Biomaterials, 2010, 31, 6182-6189.	11.4	161
33	Computational design of drainage systems for vascularized scaffolds. Biomaterials, 2009, 30, 4435-4443.	11.4	27
34	Effect of cyclic AMP on barrier function of human lymphatic microvascular tubes. Microvascular Research, 2008, 76, 46-51.	2.5	62
35	Bonding of Macromolecular Hydrogels Using Perturbants. Journal of the American Chemical Society, 2008, 130, 6664-6665.	13.7	34
36	Fabrication of microfluidic hydrogels using molded gelatin as a sacrificial element. Lab on A Chip, 2007, 7, 720.	6.0	432

#	Article	IF	Citations
37	Formation of perfused, functional microvascular tubes in vitro. Microvascular Research, 2006, 71, 185-196.	2.5	484
38	Microstructured extracellular matrices in tissue engineering and development. Current Opinion in Biotechnology, 2006, 17, 518-523.	6.6	104
39	Molding of Three-Dimensional Microstructures of Gels. Journal of the American Chemical Society, 2003, 125, 12988-12989.	13.7	137
40	Fabrication of aligned microstructures with a single elastomeric stamp. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 1758-1762.	7.1	152
41	Microcontact Printing of Proteins on Mixed Self-Assembled Monolayers. Langmuir, 2002, 18, 519-523.	3.5	160
42	Patterning the cellular microenvironment. IEEE Engineering in Medicine and Biology Magazine, 2002, 21, 95-98.	0.8	13