

Jason P Gleghorn

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

41
papers

2,823
citations

23
h-index

45
g-index

45
ext. papers

3,147
ext. citations

7
avg, IF

4.81
L-index

#	Paper	IF	Citations
41	Microfluidic scaffolds for tissue engineering. <i>Nature Materials</i> , 2007 , 6, 908-15	27	498
40	Capture of circulating tumor cells from whole blood of prostate cancer patients using geometrically enhanced differential immunocapture (GEDI) and a prostate-specific antibody. <i>Lab on A Chip</i> , 2010 , 10, 27-9	7.2	301
39	A microfluidic biomaterial. <i>Journal of the American Chemical Society</i> , 2005 , 127, 13788-9	16.4	190
38	Functional characterization of circulating tumor cells with a prostate-cancer-specific microfluidic device. <i>PLoS ONE</i> , 2012 , 7, e35976	3.7	161
37	Prevention of cartilage degeneration in a rat model of osteoarthritis by intraarticular treatment with recombinant lubricin. <i>Arthritis and Rheumatism</i> , 2009 , 60, 840-7		156
36	Rare Cell Capture in Microfluidic Devices. <i>Chemical Engineering Science</i> , 2011 , 66, 1508-1522	4.4	153
35	Lubrication mode analysis of articular cartilage using Stribeck surfaces. <i>Journal of Biomechanics</i> , 2008 , 41, 1910-8	2.9	126
34	Mapping the depth dependence of shear properties in articular cartilage. <i>Journal of Biomechanics</i> , 2008 , 41, 2430-7	2.9	114
33	Binding and localization of recombinant lubricin to articular cartilage surfaces. <i>Journal of Orthopaedic Research</i> , 2007 , 25, 283-92	3.8	108
32	Image-guided tissue engineering of anatomically shaped implants via MRI and micro-CT using injection molding. <i>Tissue Engineering - Part A</i> , 2008 , 14, 1195-202	3.9	103
31	Sculpting organs: mechanical regulation of tissue development. <i>Annual Review of Biomedical Engineering</i> , 2012 , 14, 129-54	12	89
30	Stiffness of photocrosslinked RGD-alginate gels regulates adipose progenitor cell behavior. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 1683-92	4.9	83
29	Integration of layered chondrocyte-seeded alginate hydrogel scaffolds. <i>Biomaterials</i> , 2007 , 28, 2987-93	15.6	78
28	Boundary mode lubrication of articular cartilage by recombinant human lubricin. <i>Journal of Orthopaedic Research</i> , 2009 , 27, 771-7	3.8	77
27	Mechanically patterning the embryonic airway epithelium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 9230-5	11.5	67
26	Microfluidic chest cavities reveal that transmural pressure controls the rate of lung development. <i>Development (Cambridge)</i> , 2017 , 144, 4328-4335	6.6	58
25	Host epithelial geometry regulates breast cancer cell invasiveness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 19632-7	11.5	57

24	Lymphatic function is required prenatally for lung inflation at birth. <i>Journal of Experimental Medicine</i> , 2014 , 211, 815-26	16.6	46
23	Modulation of lubricin biosynthesis and tissue surface properties following cartilage mechanical injury. <i>Arthritis and Rheumatism</i> , 2009 , 60, 133-42		45
22	Immunocapture of prostate cancer cells by use of anti-PSMA antibodies in microdevices. <i>Biomedical Microdevices</i> , 2012 , 14, 401-7	3.7	37
21	Frictional properties of the meniscus improve after scaffold-augmented repair of partial meniscectomy: a pilot study. <i>Clinical Orthopaedics and Related Research</i> , 2011 , 469, 2817-23	2.2	33
20	Microfluidic transport in microdevices for rare cell capture. <i>Electrophoresis</i> , 2012 , 33, 3133-42	3.6	30
19	Adhesive properties of laminated alginate gels for tissue engineering of layered structures. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 85, 611-8	5.4	29
18	Transport and collision dynamics in periodic asymmetric obstacle arrays: rational design of microfluidic rare-cell immunocapture devices. <i>Physical Review E</i> , 2013 , 88, 032136	2.4	20
17	Analysis of frictional behavior and changes in morphology resulting from cartilage articulation with porous polyurethane foams. <i>Journal of Orthopaedic Research</i> , 2010 , 28, 1292-9	3.8	20
16	Inhibitory morphogens and monopodial branching of the embryonic chicken lung. <i>Developmental Dynamics</i> , 2012 , 241, 852-62	2.9	19
15	Pulmonary endothelial cells exhibit sexual dimorphism in their response to hyperoxia. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018 , 315, H1287-H1292	5.2	18
14	Alteration of articular cartilage frictional properties by transforming growth factor beta, interleukin-1beta, and oncostatin M. <i>Arthritis and Rheumatism</i> , 2009 , 60, 440-9		16
13	MicroRNA-30a as a candidate underlying sex-specific differences in neonatal hyperoxic lung injury: implications for BPD. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2019 , 316, L144-L156	5.8	15
12	Fabrication of centimeter-scale and geometrically arbitrary vascular networks using in vitro self-assembly. <i>Biomaterials</i> , 2019 , 189, 37-47	15.6	14
11	The mechanosensitive ion channel TRPV4 is a regulator of lung development and pulmonary vasculature stabilization. <i>Cellular and Molecular Bioengineering</i> , 2018 , 11, 309-320	3.9	11
10	Quantitative approaches to uncover physical mechanisms of tissue morphogenesis. <i>Current Opinion in Biotechnology</i> , 2013 , 24, 954-61	11.4	11
9	Morphogenesis and morphometric scaling of lung airway development follows phylogeny in chicken, quail, and duck embryos. <i>EvoDevo</i> , 2016 , 7, 12	3.2	8
8	Molecular and mechanical signals determine morphogenesis of the cerebral hemispheres in the chicken embryo. <i>Development (Cambridge)</i> , 2019 , 146,	6.6	7
7	Fluid mechanics as a driver of tissue-scale mechanical signaling in organogenesis. <i>Current Pathobiology Reports</i> , 2016 , 4, 199-208	2	6

6	Towards an integrative view of virus phenotypes. <i>Nature Reviews Microbiology</i> , 2021 ,	22.2	5
5	Significant Unresolved Questions and Opportunities for Bioengineering in Understanding and Treating COVID-19 Disease Progression. <i>Cellular and Molecular Bioengineering</i> , 2020 , 13, 1-26	3.9	4
4	Coupling synthetic biology and programmable materials to construct complex tissue ecosystems. <i>MRS Communications</i> , 2019 , 9, 421-432	2.7	2
3	Generation and morphological quantification of large scale, three-dimensional, self-assembled vascular networks. <i>MethodsX</i> , 2019 , 6, 1907-1918	1.9	2
2	Defective mesothelium and limited physical space are drivers of dysregulated lung development in a genetic model of congenital diaphragmatic hernia. <i>Development (Cambridge)</i> , 2021 , 148,	6.6	2
1	Targeted Gq-GPCR activation drives ER-dependent calcium oscillations in chondrocytes. <i>Cell Calcium</i> , 2021 , 94, 102363	4	0