

William J Mccarty

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

960
citations

687363

13
h-index

677142

22
g-index

22
all docs

22
docs citations

22
times ranked

1819
citing authors

#	ARTICLE	IF	CITATIONS
1	A systems biology approach to synovial joint lubrication in health, injury, and disease. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2012, 4, 15-37.	6.6	191
2	Long-term maintenance of a microfluidic 3D human liver sinusoid. Biotechnology and Bioengineering, 2016, 113, 241-246.	3.3	164
3	<i>In vitro</i> platforms for evaluating liver toxicity. Experimental Biology and Medicine, 2014, 239, 1180-1191.	2.4	145
4	Dynamic interplay of flow and collagen stabilizes primary hepatocytes culture in a microfluidic platform. Lab on A Chip, 2014, 14, 2033-2039.	6.0	88
5	Long-Term Coculture Strategies for Primary Hepatocytes and Liver Sinusoidal Endothelial Cells. Tissue Engineering - Part C: Methods, 2015, 21, 413-422.	2.1	84
6	Towards a three-dimensional microfluidic liver platform for predicting drug efficacy and toxicity in humans. Stem Cell Research and Therapy, 2013, 4, S16.	5.5	54
7	A Microfabricated Platform for Generating Physiologically-Relevant Hepatocyte Zonation. Scientific Reports, 2016, 6, 26868.	3.3	53
8	A novel ultrathin collagen nanolayer assembly for 3-D microtissue engineering: Layer-by-layer collagen deposition for long-term stable microfluidic hepatocyte culture. Technology, 2014, 02, 67-74.	1.4	22
9	Semi-permeable membrane retention of synovial fluid lubricants hyaluronan and proteoglycan 4 for a biomimetic bioreactor. Biotechnology and Bioengineering, 2010, 106, 149-160.	3.3	20
10	Live cell imaging of cytosolic NADH/NAD ⁺ ratio in hepatocytes and liver slices. American Journal of Physiology - Renal Physiology, 2018, 314, G97-G108.	3.4	20
11	Effects of particulates and lipids on the hydraulic conductivity of Matrigel. Journal of Applied Physiology, 2008, 105, 621-628.	2.5	17
12	Fluid movement and joint capsule strains due to flexion in rabbit knees. Journal of Biomechanics, 2011, 44, 2761-2767.	2.1	17
13	The hydraulic conductivity of Matrigel. Biorheology, 2007, 44, 303-17.	0.4	16
14	Biomechanical properties of mixtures of blood and synovial fluid. Journal of Orthopaedic Research, 2011, 29, 240-246.	2.3	13
15	The biophysical mechanisms of altered hyaluronan concentration in synovial fluid after anterior cruciate ligament transection. Arthritis and Rheumatism, 2012, 64, 3993-4003.	6.7	13
16	A novel low-volume two-chamber microfabricated platform for evaluating drug metabolism and toxicity. Technology, 2015, 03, 155-162.	1.4	11
17	The Proteoglycan Metabolism of Articular Cartilage in Joint-Scale Culture. Tissue Engineering - Part A, 2010, 16, 1717-1727.	3.1	9
18	An Arthroscopic Device to Assess Articular Cartilage Defects and Treatment with a Hydrogel. Annals of Biomedical Engineering, 2011, 39, 1306-1312.	2.5	9

#	ARTICLE	IF	CITATIONS
19	Pharmacological Assessment of Sepiapterin Reductase Inhibition on Tactile Response in the Rat. Journal of Pharmacology and Experimental Therapeutics, 2019, 371, 476-486.	2.5	5
20	Layer-by-layer Collagen Deposition in Microfluidic Devices for Microtissue Stabilization. Journal of Visualized Experiments, 2015, , .	0.3	4
21	P-glycoprotein Substrate Assessment in Drug Discovery: Application of Modeling to Bridge Differential Protein Expression Across InÂVItro Tools. Journal of Pharmaceutical Sciences, 2021, 110, 325-337.	3.3	4
22	Live Cell Imaging of Cytosolic NADH/NAD+ Ratio in Hepatocytes using the Fluorescent Sensor Peredox. Biophysical Journal, 2016, 110, 335a.	0.5	1