William J Mccarty

List of Publications by Year
in descending order

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	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
2	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
3	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
4	A Microfabricated Platform for Generating Physiologically-Relevant Hepatocyte Zonation. Scientific Reports, 2016, 6, 26868.	3.3	53
5	Live Cell Imaging of Cytosolic NADH/NAD+ Ratio in Hepatocytes using the Fluorescent Sensor Peredox. Biophysical Journal, 2016, 110, 335a.	0.5	1
6	Longâ€term maintenance of a microfluidic 3D human liver sinusoid. Biotechnology and Bioengineering, 2016, 113, 241-246.	3.3	164
7	Layer-by-layer Collagen Deposition in Microfluidic Devices for Microtissue Stabilization. Journal of Visualized Experiments, 2015, , .	0.3	4
8	A novel low-volume two-chamber microfabricated platform for evaluating drug metabolism and toxicity. Technology, 2015, 03, 155-162.	1.4	11
9	Long-Term Coculture Strategies for Primary Hepatocytes and Liver Sinusoidal Endothelial Cells. Tissue Engineering - Part C: Methods, 2015, 21, 413-422.	2.1	84
10	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
11	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
12	InÂvitro platforms for evaluating liver toxicity. Experimental Biology and Medicine, 2014, 239, 1180-1191.	2.4	145
13	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
14	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
15	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
16	Fluid movement and joint capsule strains due to flexion in rabbit knees. Journal of Biomechanics, 2011, 44, 2761-2767.	2.1	17
17	An Arthroscopic Device to Assess Articular Cartilage Defects and Treatment with a Hydrogel. Annals of Biomedical Engineering, 2011, 39, 1306-1312.	2.5	9
18	Biomechanical properties of mixtures of blood and synovial fluid. Journal of Orthopaedic Research, 2011, 29, 240-246.	2.3	13

#	Article	IF	Citations
19	Semiâ€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
20	The Proteoglycan Metabolism of Articular Cartilage in Joint-Scale Culture. Tissue Engineering - Part A, 2010, 16, 1717-1727.	3.1	9
21	Effects of particulates and lipids on the hydraulic conductivity of Matrigel. Journal of Applied Physiology, 2008, 105, 621-628.	2.5	17
22	The hydraulic conductivity of Matrigel. Biorheology, 2007, 44, 303-17.	0.4	16