

Abigail N Koppes

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.

31
papers

843
citations

14
h-index

29
g-index

38
ext. papers

1,076
ext. citations

7.6
avg, IF

4.41
L-index

#	Paper	IF	Citations
31	High-Performance Silicon Nanopore Hemofiltration Membranes. <i>Journal of Membrane Science</i> , 2009 , 326, 58-63	9.6	117
30	Microfluidic Sample Preparation for Single Cell Analysis. <i>Analytical Chemistry</i> , 2016 , 88, 354-80	7.8	95
29	Robust neurite extension following exogenous electrical stimulation within single walled carbon nanotube-composite hydrogels. <i>Acta Biomaterialia</i> , 2016 , 39, 34-43	10.8	83
28	Neurite outgrowth is significantly increased by the simultaneous presentation of Schwann cells and moderate exogenous electric fields. <i>Journal of Neural Engineering</i> , 2011 , 8, 046023	5	72
27	Electrical stimuli in the central nervous system microenvironment. <i>Annual Review of Biomedical Engineering</i> , 2014 , 16, 397-430	12	70
26	Electroconductive Gelatin Methacryloyl-PEDOT:PSS Composite Hydrogels: Design, Synthesis, and Properties. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 1558-1567	5.5	60
25	Enteric Nervous System Regulation of Intestinal Stem Cell Differentiation and Epithelial Monolayer Function. <i>Scientific Reports</i> , 2018 , 8, 6313	4.9	51
24	Photocrosslinkable Gelatin/Tropoelastin Hydrogel Adhesives for Peripheral Nerve Repair. <i>Tissue Engineering - Part A</i> , 2018 , 24, 1393-1405	3.9	51
23	Single-walled carbon nanotubes alter Schwann cell behavior differentially within 2D and 3D environments. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 96, 46-57	5.4	43
22	Fund Black scientists. <i>Cell</i> , 2021 , 184, 561-565	56.2	42
21	Electrical stimulation of schwann cells promotes sustained increases in neurite outgrowth. <i>Tissue Engineering - Part A</i> , 2014 , 20, 494-506	3.9	34
20	Instrumented Microphysiological Systems for Real-Time Measurement and Manipulation of Cellular Electrochemical Processes. <i>iScience</i> , 2019 , 21, 521-548	6.1	26
19	Complex, multi-scale small intestinal topography replicated in cellular growth substrates fabricated via chemical vapor deposition of Parylene C. <i>Biofabrication</i> , 2016 , 8, 035011	10.5	19
18	Neural responses to electrical stimulation in 2D and 3D in vitro environments. <i>Brain Research Bulletin</i> , 2019 , 152, 265-284	3.9	15
17	Enhanced total neurite outgrowth and secondary branching in dorsal root ganglion neurons elicited by low intensity pulsed ultrasound. <i>Journal of Neural Engineering</i> , 2018 , 15, 046013	5	12
16	Rapid Prototyping of Multilayer Microphysiological Systems. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 2949-2963	5.5	7
15	The Body Acoustic: Ultrasonic Neuromodulation for Translational Medicine. <i>Cells Tissues Organs</i> , 2016 , 202, 23-41	2.1	7

14	Glial cells influence cardiac permittivity as evidenced through in vitro and in silico models. <i>Biofabrication</i> , 2019 , 12, 015014	10.5	7
13	Recent advancements in microphysiological systems for neural development and disease. <i>Current Opinion in Biomedical Engineering</i> , 2020 , 14, 42-51	4.4	6
12	Stabilized Interleukin-4-Loaded Poly(lactic--glycolic) Acid Films Shift Proinflammatory Macrophages toward a Regenerative Phenotype. <i>ACS Applied Bio Materials</i> , 2019 , 2, 1498-1508	4.1	5
11	Materials and Microenvironments for Engineering the Intestinal Epithelium. <i>Annals of Biomedical Engineering</i> , 2020 , 48, 1916-1940	4.7	5
10	Reconfigurable Microphysiological Systems for Modeling Innervation and Multitissue Interactions. <i>Advanced Biology</i> , 2020 , 4, e2000133	3.5	3
9	The effects of low intensity focused ultrasonic stimulation on dorsal root ganglion neurons and Schwann cells in vitro. <i>Journal of Neuroscience Research</i> , 2021 , 99, 374-391	4.4	3
8	Bioactive Organic Rosette Nanotubes Support Sensory Neurite Outgrowth. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 1630-1640	5.5	2
7	Rapid prototyping of a multilayer microphysiological system for primary human intestinal epithelial culture		2
6	Cholinergic Activation of Primary Human Derived Intestinal Epithelium Does Not Ameliorate TNF- α Induced Injury. <i>Cellular and Molecular Bioengineering</i> , 2020 , 13, 487-505	3.9	2
5	Cryopreservation and functional analysis of cardiac autonomic neurons. <i>Journal of Neuroscience Methods</i> , 2020 , 341, 108724	3	1
4	Engineering the Niche for Intestinal Regeneration 2017 , 601-615		1
3	Innervated adrenomedullary microphysiological system to model nicotine and opioid exposure. <i>Organs-on-a-Chip</i> , 2021 , 3, 100009	9.8	1
2	Parkinson's disease and the gut: Models of an emerging relationship. <i>Acta Biomaterialia</i> , 2021 , 132, 325-344	10.5	1
1	Light irradiation of peripheral nerve cells: Wavelength impacts primary sensory neuron outgrowth in vitro. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2021 , 215, 112105	6.7	0