Abigail N Koppes

List of Publications by Year
in descending order

33 papers	1,264 citations	516215 16 h-index	476904 29 g-index
38 all docs	38 docs citations	38 times ranked	2218 citing authors

#	Article	IF	Citations
1	High-performance silicon nanopore hemofiltration membranes. Journal of Membrane Science, 2009, 326, 58-63.	4.1	151
2	Microfluidic Sample Preparation for Single Cell Analysis. Analytical Chemistry, 2016, 88, 354-380.	3.2	125
3	Robust neurite extension following exogenous electrical stimulation within single walled carbon nanotube-composite hydrogels. Acta Biomaterialia, 2016, 39, 34-43.	4.1	115
4	Fund Black scientists. Cell, 2021, 184, 561-565.	13.5	107
5	Neurite outgrowth is significantly increased by the simultaneous presentation of Schwann cells and moderate exogenous electric fields. Journal of Neural Engineering, 2011, 8, 046023.	1.8	95
6	Electrical Stimuli in the Central Nervous System Microenvironment. Annual Review of Biomedical Engineering, 2014, 16, 397-430.	5.7	86
7	Photocrosslinkable Gelatin/Tropoelastin Hydrogel Adhesives for Peripheral Nerve Repair. Tissue Engineering - Part A, 2018, 24, 1393-1405.	1.6	80
8	Electroconductive Gelatin Methacryloyl-PEDOT:PSS Composite Hydrogels: Design, Synthesis, and Properties. ACS Biomaterials Science and Engineering, 2018, 4, 1558-1567.	2.6	75
9	Enteric Nervous System Regulation of Intestinal Stem Cell Differentiation and Epithelial Monolayer Function. Scientific Reports, 2018, 8, 6313.	1.6	74
10	Electrical Stimulation of Schwann Cells Promotes Sustained Increases in Neurite Outgrowth. Tissue Engineering - Part A, 2014, 20, 130924230853000.	1.6	49
11	Singleâ€walled carbon nanotubes alter Schwann cell behavior differentially within 2D and 3D environments. Journal of Biomedical Materials Research - Part A, 2011, 96A, 46-57.	2.1	48
12	Neural responses to electrical stimulation in 2D and 3D in vitro environments. Brain Research Bulletin, 2019, 152, 265-284.	1.4	43
13	Instrumented Microphysiological Systems for Real-Time Measurement and Manipulation of Cellular Electrochemical Processes. IScience, 2019, 21, 521-548.	1.9	43
14	Rapid Prototyping of Multilayer Microphysiological Systems. ACS Biomaterials Science and Engineering, 2021, 7, 2949-2963.	2.6	28
15	Complex, multi-scale small intestinal topography replicated in cellular growth substrates fabricated via chemical vapor deposition of Parylene C. Biofabrication, 2016, 8, 035011.	3.7	25
16	Enhanced total neurite outgrowth and secondary branching in dorsal root ganglion neurons elicited by low intensity pulsed ultrasound. Journal of Neural Engineering, 2018, 15, 046013.	1.8	21
17	Parkinson's disease and the gut: Models of an emerging relationship. Acta Biomaterialia, 2021, 132, 325-344.	4.1	15
18	Stabilized Interleukin-4-Loaded Poly(lactic-co-glycolic) Acid Films Shift Proinflammatory Macrophages toward a Regenerative Phenotype in Vitro. ACS Applied Bio Materials, 2019, 2, 1498-1508.	2.3	11

#	Article	IF	Citations
19	Reconfigurable Microphysiological Systems for Modeling Innervation and Multitissue Interactions. Advanced Biology, 2020, 4, e2000133.	3.0	11
20	Materials and Microenvironments for Engineering the Intestinal Epithelium. Annals of Biomedical Engineering, 2020, 48, 1916-1940.	1.3	10
21	Glial cells influence cardiac permittivity as evidenced through in vitro and in silico models. Biofabrication, 2020, 12, 015014.	3.7	9
22	Recent advancements in microphysiological systems for neural development and disease. Current Opinion in Biomedical Engineering, 2020, 14, 42-51.	1.8	9
23	The Body Acoustic: Ultrasonic Neuromodulation for Translational Medicine. Cells Tissues Organs, 2016, 202, 23-41.	1.3	8
24	The effects of low intensity focused ultrasonic stimulation on dorsal root ganglion neurons and Schwann cells in vitro. Journal of Neuroscience Research, 2021, 99, 374-391.	1.3	7
25	Bioactive Organic Rosette Nanotubes Support Sensory Neurite Outgrowth. ACS Biomaterials Science and Engineering, 2018, 4, 1630-1640.	2.6	4
26	Light irradiation of peripheral nerve cells: Wavelength impacts primary sensory neuron outgrowth in vitro. Journal of Photochemistry and Photobiology B: Biology, 2021, 215, 112105.	1.7	4
27	Cholinergic Activation of Primary Human Derived Intestinal Epithelium Does Not Ameliorate TNF-Î± Induced Injury. Cellular and Molecular Bioengineering, 2020, 13, 487-505.	1.0	3
28	Engineering the Niche for Intestinal Regeneration. , 2017, , 601-615.		2
29	Cryopreservation and functional analysis of cardiac autonomic neurons. Journal of Neuroscience Methods, 2020, 341, 108724.	1.3	1
30	Innervated adrenomedullary microphysiological system to model nicotine and opioid exposure. Organs-on-a-Chip, 2021, 3, 100009.	1.8	1
31	High-throughput screening for directed chemotaxis of retinal progenitor cells in 3D hydrogels. , 2014, , .		0
32	Tissue Engineering: Reconfigurable Microphysiological Systems for Modeling Innervation and Multitissue Interactions (Adv. Biosys. 9/2020). Advanced Biology, 2020, 4, 2070091.	3.0	0
33	Glial Cells in the Heart? Replicating the Diversity of the Myocardium with Low-Cost 3D Models. SSRN Electronic Journal, 0, , .	0.4	0