Michael J Moore

List of Publications by Year
in descending order

39 papers	1,570 citations	361413 20 h-index	345221 36 g-index
41 all docs	41 docs citations	41 times ranked	2202 citing authors

#	Article	IF	Citations
1	Fabrication and Characterization of 3D Printed, 3D Microelectrode Arrays for Interfacing with a Peripheral Nerve-on-a-Chip. ACS Biomaterials Science and Engineering, 2021, 7, 3018-3029.	5.2	26
2	Fabrication and Characterization of 3D Microelectrode Arrays (3D MEAS) with Tri-Modal (Electrical,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5		1
3	Morphine-sensitive synaptic transmission emerges in embryonic rat microphysiological model of lower afferent nociceptive signaling. Science Advances, 2021, 7, .	10.3	9
4	Fabrication and Characterization of 3D Microelectrode Arrays (3D MEAs) with "Edge-Wrapped" Metal Interconnects and 3D-Printed Assembly Rigs for Simultaneous Optical and Electrical Probing of Nerve-on-a-Chip^{Â®} Constructs. , 2021, , .		3
5	Advances in 3D neuronal microphysiological systems: towards a functional nervous system on a chip. In Vitro Cellular and Developmental Biology - Animal, 2021, 57, 191-206.	1.5	30
6	Comparative Analysis of Chemotherapy-Induced Peripheral Neuropathy in Bioengineered Sensory Nerve Tissue Distinguishes Mechanistic Differences in Early-Stage Vincristine-, Cisplatin-, and Paclitaxel-Induced Nerve Damage. Toxicological Sciences, 2021, 180, 76-88.	3.1	12
7	Systems Pharmacology Modeling Identifies a Novel Treatment Strategy for Bortezomib-Induced Neuropathic Pain. Frontiers in Pharmacology, 2021, 12, 817236.	3.5	6
8	Biofabrication of neural microphysiological systems using magnetic spheroid bioprinting. Biofabrication, 2020, 12, 015002.	7.1	43
9	Modeling chemotherapy-induced peripheral neuropathy using a Nerve-on-a-chip microphysiological system. ALTEX: Alternatives To Animal Experimentation, 2020, 37, 350-364.	1.5	15
10	Engineering a 3D functional human peripheral nerve in vitro using the Nerve-on-a-Chip platform. Scientific Reports, 2019, 9, 8921.	3.3	52
11	Neural microphysiological systems for <i>in vitro</i> modeling of peripheral nervous system disorders. Bioelectronics in Medicine, 2019, 2, 101-117.	2.0	7
12	Semantic Segmentation of Microengineered Neural Tissues*. , 2019, 2019, 955-960.		0
13	Comparison of visible and UVA phototoxicity in neural culture systems micropatterned with digital projection photolithography. Journal of Biomedical Materials Research - Part A, 2019, 107, 134-144.	4.0	19
14	Methods for fabrication and evaluation of a 3D microengineered model of myelinated peripheral nerve. Journal of Neural Engineering, 2018, 15, 064001.	3.5	20
15	The Amyloid Precursor Protein Is a Conserved Receptor for Slit to Mediate Axon Guidance. ENeuro, 2017, 4, ENEURO.0185-17.2017.	1.9	29
16	3D Neural Culture in Dual Hydrogel Systems. Methods in Molecular Biology, 2017, 1612, 225-237.	0.9	4
17	Engineering Neuronal Patterning and Defined Axonal Elongation In Vitro. , 2016, , 83-121.		2
18	Isolated node engineering of neuronal systems using laser direct write. Biofabrication, 2016, 8, 015013.	7.1	19

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19	Microscale tissue-engineered models: overcoming barriers to adoption for neural regeneration research. Neural Regeneration Research, 2016, 11, 386.	3.0	1
20	Photoreactive interpenetrating network of hyaluronic acid and Puramatrix as a selectively tunable scaffold for neurite growth. Acta Biomaterialia, 2015, 16, 23-34.	8.3	50
21	Experimental and computational models of neurite extension at a choice point in response to controlled diffusive gradients. Journal of Neural Engineering, 2015, 12, 046012.	3.5	11
22	Microengineered peripheral nerve-on-a-chip for preclinical physiological testing. Lab on A Chip, 2015, 15, 2221-2232.	6.0	63
23	Light-reactive dextran gels with immobilized guidance cues for directed neurite growth in 3D models. Biomaterials Science, 2014, 2, 1450-1459.	5.4	19
24	Sensory axon guidance with semaphorin 6A and nerve growth factor in a biomimetic choice point model. Biofabrication, 2014, 6, 035026.	7.1	24
25	Structural and molecular micropatterning of dual hydrogel constructs for neural growth models using photochemical strategies. Biomedical Microdevices, 2013, 15, 49-61.	2.8	25
26	Fabrication of Micropatterned Hydrogels for Neural Culture Systems using Dynamic Mask Projection Photolithography. Journal of Visualized Experiments, 2011, , .	0.3	23
27	Facile micropatterning of dual hydrogel systems for 3D models of neurite outgrowth. Journal of Biomedical Materials Research - Part A, 2011, 99A, 532-543.	4.0	42
28	Threeâ€dimensional conductive constructs for nerve regeneration. Journal of Biomedical Materials Research - Part A, 2009, 91A, 519-527.	4.0	45
29	Relationship between scaffold channel diameter and number of regenerating axons in the transected rat spinal cord. Acta Biomaterialia, 2009, 5, 2551-2559.	8.3	70
30	Methods for <i>in vitro</i> characterization of multichannel nerve tubes. Journal of Biomedical Materials Research - Part A, 2008, 84A, 643-651.	4.0	70
31	Characterization of porous injectable poly-(propylene fumarate)-based bone graft substitute. Journal of Biomedical Materials Research - Part A, 2008, 85A, 1114-1119.	4.0	42
32	ACCURACY OF MOTOR AXON REGENERATION ACROSS AUTOGRAFT, SINGLE-LUMEN, AND MULTICHANNEL POLY(LACTIC-CO-GLYCOLIC ACID) NERVE TUBES. Neurosurgery, 2008, 63, 144-155.	1.1	89
33	Multiple-channel scaffolds to promote spinal cord axon regeneration. Biomaterials, 2006, 27, 419-429.	11.4	262
34	Animal models of spinal cord injury for evaluation of tissue engineering treatment strategies. Biomaterials, 2004, 25, 1505-1510.	11.4	111
35	Quantitative analysis of interconnectivity of porous biodegradable scaffolds with micro-computed tomography. Journal of Biomedical Materials Research Part B, 2004, 71A, 258-267.	3.1	140
36	Biodegradable Polymer Grafts for Surgical Repair of the Injured Spinal Cord. Neurosurgery, 2002, 51, 742-752.	1.1	57

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37	Effects of NFÎºB decoy oligonucleotides released from biodegradable polymer microparticles on a glioblastoma cell line. Biomaterials, 2002, 23, 2773-2781.	11.4	44
38	Biodegradable Polymer Grafts for Surgical Repair of the Injured Spinal Cord. Neurosurgery, 2002, 51, 742-752.	1.1	46
39	Biodegradable polymer grafts for surgical repair of the injured spinal cord. Neurosurgery, 2002, 51, 742-51; discussion 751-2.	1.1	38