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	Multiple-channel scaffolds to promote spinal cord axon regeneration. Biomaterials, 2006, 27, 419-429.	11.4	262
2	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
3	Animal models of spinal cord injury for evaluation of tissue engineering treatment strategies. Biomaterials, 2004, 25, 1505-1510.	11.4	111
4	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
5	Methods for in vitro characterization of multichannel nerve tubes. Journal of Biomedical Materials Research - Part A, 2008, 84A, 643-651.	4.0	70
6	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
7	Microengineered peripheral nerve-on-a-chip for preclinical physiological testing. Lab on A Chip, 2015, 15, 2221-2232.	6.0	63
8	Biodegradable Polymer Grafts for Surgical Repair of the Injured Spinal Cord. Neurosurgery, 2002, 51, 742-752.	1.1	57
9	Engineering a 3D functional human peripheral nerve in vitro using the Nerve-on-a-Chip platform. Scientific Reports, 2019, 9, 8921.	3.3	52
10	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
11	Biodegradable Polymer Grafts for Surgical Repair of the Injured Spinal Cord. Neurosurgery, 2002, 51, 742-752.	1.1	46
12	Threeâ€dimensional conductive constructs for nerve regeneration. Journal of Biomedical Materials Research - Part A, 2009, 91A, 519-527.	4.0	45
13	Effects of NFÎºB decoy oligonucleotides released from biodegradable polymer microparticles on a glioblastoma cell line. Biomaterials, 2002, 23, 2773-2781.	11.4	44
14	Biofabrication of neural microphysiological systems using magnetic spheroid bioprinting. Biofabrication, 2020, 12, 015002.	7.1	43
15	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
16	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
17	Biodegradable polymer grafts for surgical repair of the injured spinal cord. Neurosurgery, 2002, 51, 742-51; discussion 751-2.	1.1	38
18	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

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19	The Amyloid Precursor Protein Is a Conserved Receptor for Slit to Mediate Axon Guidance. ENeuro, 2017, 4, ENEURO.0185-17.2017.	1.9	29
20	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
21	Structural and molecular micropatterning of dual hydrogel constructs for neural growth models using photochemical strategies. Biomedical Microdevices, 2013, 15, 49-61.	2.8	25
22	Sensory axon guidance with semaphorin 6A and nerve growth factor in a biomimetic choice point model. Biofabrication, 2014, 6, 035026.	7.1	24
23	Fabrication of Micropatterned Hydrogels for Neural Culture Systems using Dynamic Mask Projection Photolithography. Journal of Visualized Experiments, 2011, , .	0.3	23
24	Methods for fabrication and evaluation of a 3D microengineered model of myelinated peripheral nerve. Journal of Neural Engineering, 2018, 15, 064001.	3.5	20
25	Light-reactive dextran gels with immobilized guidance cues for directed neurite growth in 3D models. Biomaterials Science, 2014, 2, 1450-1459.	5.4	19
26	Isolated node engineering of neuronal systems using laser direct write. Biofabrication, 2016, 8, 015013.	7.1	19
27	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
28	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
29	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
30	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
31	Morphine-sensitive synaptic transmission emerges in embryonic rat microphysiological model of lower afferent nociceptive signaling. Science Advances, 2021, 7, .	10.3	9
32	Neural microphysiological systems for in vitro modeling of peripheral nervous system disorders. Bioelectronics in Medicine, 2019, 2, 101-117.	2.0	7
33	Systems Pharmacology Modeling Identifies a Novel Treatment Strategy for Bortezomib-Induced Neuropathic Pain. Frontiers in Pharmacology, 2021, 12, 817236.	3.5	6
34	3D Neural Culture in Dual Hydrogel Systems. Methods in Molecular Biology, 2017, 1612, 225-237.	0.9	4
35	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
36	Engineering Neuronal Patterning and Defined Axonal Elongation In Vitro. , 2016, , 83-121.		2

#	Article	IF	Citations
37	Fabrication and Characterization of 3D Microelectrode Arrays (3D MEAS) with Tri-Modal (Electrical,) Tj ETQq1 1 0.784314 rgBT /Overl		1
38	Microscale tissue-engineered models: overcoming barriers to adoption for neural regeneration research. Neural Regeneration Research, 2016, 11, 386.	3.0	1
39	Semantic Segmentation of Microengineered Neural Tissues*. , 2019, 2019, 955-960.		0