Stephanie K Seidlits

List of Publications by Year
in descending order

33 papers	2,051 citations	279487 23 h-index	414034 32 g-index
33 all docs	33 docs citations	33 times ranked	3126 citing authors

#	Article	IF	Citations
1	The effects of hyaluronic acid hydrogels with tunable mechanical properties on neural progenitor cell differentiation. Biomaterials, 2010, 31, 3930-3940.	5.7	427
2	High molecular weight hyaluronic acid limits astrocyte activation and scar formation after spinal cord injury. Journal of Neural Engineering, 2011, 8, 046033.	1.8	174
3	Nanostructured scaffolds for neural applications. Nanomedicine, 2008, 3, 183-199.	1.7	140
4	Highâ€Resolution Patterning of Hydrogels in Three Dimensions using Directâ€Write Photofabrication for Cell Guidance. Advanced Functional Materials, 2009, 19, 3543-3551.	7.8	112
5	Regenerative Therapies for Spinal Cord Injury. Tissue Engineering - Part B: Reviews, 2019, 25, 471-491.	2.5	100
6	Fibronectinâ€"hyaluronic acid composite hydrogels for three-dimensional endothelial cell culture. Acta Biomaterialia, 2011, 7, 2401-2409.	4.1	94
7	A 3D Magnetic Hyaluronic Acid Hydrogel for Magnetomechanical Neuromodulation of Primary Dorsal Root Ganglion Neurons. Advanced Materials, 2018, 30, e1800927.	11.1	78
8	Channel density and porosity of degradable bridging scaffolds on axon growth after spinal injury. Biomaterials, 2013, 34, 2213-2220.	5.7	73
9	Brain-Mimetic 3D Culture Platforms Allow Investigation of Cooperative Effects of Extracellular Matrix Features on Therapeutic Resistance in Glioblastoma. Cancer Research, 2018, 78, 1358-1370.	0.4	72
10	Peptideâ€modified, hyaluronic acidâ€based hydrogels as a 3D culture platform for neural stem/progenitor cell engineering. Journal of Biomedical Materials Research - Part A, 2019, 107, 704-718.	2.1	64
11	Sonic hedgehog and neurotrophin-3 increase oligodendrocyte numbers and myelination after spinal cord injury. Integrative Biology (United Kingdom), 2014, 6, 694-705.	0.6	63
12	Integrating the glioblastoma microenvironment into engineered experimental models. Future Science OA, 2017, 3, FSO189.	0.9	61
13	In vitro release of plasmid DNA from oligo(poly(ethylene glycol) fumarate) hydrogels. Journal of Controlled Release, 2005, 104, 521-539.	4.8	59
14	Hydrogels for lentiviral gene delivery. Expert Opinion on Drug Delivery, 2013, 10, 499-509.	2.4	56
15	Hyaluronic acid and neural stem cells: implications for biomaterial design. Journal of Materials Chemistry B, 2015, 3, 7850-7866.	2.9	50
16	The impact of adhesion peptides within hydrogels on the phenotype and signaling of normal and cancerous mammary epithelial cells. Biomaterials, 2012, 33, 3548-3559.	5.7	48
17	Brain-on-a-chip: Recent advances in design and techniques for microfluidic models of the brain in health and disease. Biomaterials, 2022, 285, 121531.	5.7	48
18	Bioengineered scaffolds for 3D culture demonstrate extracellular matrix-mediated mechanisms of chemotherapy resistance in glioblastoma. Matrix Biology, 2020, 85-86, 128-146.	1.5	46

#	Article	IF	Citations
19	Reducing neuroinflammation by delivery of ILâ€10 encoding lentivirus from multipleâ€channel bridges. Bioengineering and Translational Medicine, 2016, 1, 136-148.	3.9	35
20	Injectable Hydrogels for Spinal Cord Repair: A Focus on Swelling and Intraspinal Pressure. Cells Tissues Organs, 2016, 202, 67-84.	1.3	33
21	Gene Delivery Strategies to Promote Spinal Cord Repair. Biomarker Insights, 2015, 10s1, BMI.S20063.	1.0	30
22	Dynamic transcription factor activity networks in response to independently altered mechanical and adhesive microenvironmental cues. Integrative Biology (United Kingdom), 2016, 8, 844-860.	0.6	28
23	Inflammation Drives Retraction, Stiffening, and Nodule Formation via Cytoskeletal Machinery in a Three-Dimensional Culture Model of Aortic Stenosis. American Journal of Pathology, 2016, 186, 2378-2389.	1.9	25
24	Injectable, Hyaluronic Acid-Based Scaffolds with Macroporous Architecture for Gene Delivery. Cellular and Molecular Bioengineering, 2019, 12, 399-413.	1.0	24
25	Use of artificial cells as drug carriers. Materials Chemistry Frontiers, 2021, 5, 6672-6692.	3.2	20
26	Injectable, macroporous scaffolds for delivery of therapeutic genes to the injured spinal cord. APL Bioengineering, 2021, 5, 016104.	3.3	19
27	Extracellular Matrix Proteins Confer Cell Adhesion-Mediated Drug Resistance Through Integrin Î±v in Glioblastoma Cells. Frontiers in Cell and Developmental Biology, 2021, 9, 616580.	1.8	17
28	Engineering Tissues of the Central Nervous System: Interfacing Conductive Biomaterials with Neural Stem/Progenitor Cells. Advanced Healthcare Materials, 2022, 11, e2101577.	3.9	15
29	Hyaluronic-Acid Based Hydrogels for 3-Dimensional Culture of Patient-Derived Glioblastoma Cells. Journal of Visualized Experiments, 2018, , .	0.2	14
30	Semi-automated counting of axon regeneration in poly(lactide co-glycolide) spinal cord bridges. Journal of Neuroscience Methods, 2016, 263, 15-22.	1.3	13
31	Localized lentivirus delivery via peptide interactions. Biotechnology and Bioengineering, 2016, 113, 2033-2040.	1.7	11
32	DNA delivery for regeneration. , 2014, , 431-446.		1
33	Biomaterials for Personalized Disease Models. Acta Biomaterialia, 2021, 132, 1-3.	4.1	1