

Laura A Smith Callahan

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

2,968
citations

279701

23
h-index

330025

37
g-index

37
all docs

37
docs citations

37
times ranked

4484
citing authors

#	ARTICLE	IF	CITATIONS
1	Nano-fibrous scaffolds for tissue engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , 2004, 39, 125-131.	2.5	546
2	Biomimetic nanofibrous gelatin/apatite composite scaffolds for bone tissue engineering. <i>Biomaterials</i> , 2009, 30, 2252-2258.	5.7	483
3	Nanostructured polymer scaffolds for tissue engineering and regenerative medicine. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2009, 1, 226-236.	3.3	234
4	Bone regeneration on computer-designed nano-fibrous scaffolds. <i>Biomaterials</i> , 2006, 27, 3973-3979.	5.7	191
5	Tissue engineering with nano-fibrous scaffolds. <i>Soft Matter</i> , 2008, 4, 2144.	1.2	145
6	Directed differentiation and neurite extension of mouse embryonic stem cell on aligned poly(lactide) nanofibers functionalized with YIGSR peptide. <i>Biomaterials</i> , 2013, 34, 9089-9095.	5.7	130
7	The influence of three-dimensional nanofibrous scaffolds on the osteogenic differentiation of embryonic stem cells. <i>Biomaterials</i> , 2009, 30, 2516-2522.	5.7	123
8	Strain-Promoted Cross-Linking of PEG-Based Hydrogels via Copper-Free Cycloaddition. <i>ACS Macro Letters</i> , 2012, 1, 1071-1073.	2.3	114
9	The Enhancement of human embryonic stem cell osteogenic differentiation with nano-fibrous scaffolding. <i>Biomaterials</i> , 2010, 31, 5526-5535.	5.7	112
10	Enhancing Osteogenic Differentiation of Mouse Embryonic Stem Cells by Nanofibers. <i>Tissue Engineering - Part A</i> , 2009, 15, 1855-1864.	1.6	101
11	Resorbable, amino acid-based poly(ester urea)s crosslinked with osteogenic growth peptide with enhanced mechanical properties and bioactivity. <i>Acta Biomaterialia</i> , 2013, 9, 5132-5142.	4.1	69
12	OGP Functionalized Phenylalanine-Based Poly(ester urea) for Enhancing Osteoinductive Potential of Human Mesenchymal Stem Cells. <i>Biomacromolecules</i> , 2015, 16, 1358-1371.	2.6	63
13	Primary human chondrocyte extracellular matrix formation and phenotype maintenance using RGD-derivatized PEGDM hydrogels possessing a continuous Young's modulus gradient. <i>Acta Biomaterialia</i> , 2013, 9, 6095-6104.	4.1	62
14	Volumetric muscle loss injury repair using in situ fibrin gel cast seeded with muscle-derived stem cells (MDSCs). <i>Stem Cell Research</i> , 2018, 27, 65-73.	0.3	61
15	Surface Engineering of Nano-Fibrous Poly(L-Lactic Acid) Scaffolds via Self-Assembly Technique for Bone Tissue Engineering. <i>Journal of Biomedical Nanotechnology</i> , 2005, 1, 54-60.	0.5	60
16	Polyethylene glycol in spinal cord injury repair: a critical review. <i>Journal of Experimental Pharmacology</i> , 2018, Volume 10, 37-49.	1.5	48
17	Neurite extension and neuronal differentiation of human induced pluripotent stem cell derived neural stem cells on polyethylene glycol hydrogels containing a continuous Young's Modulus gradient. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 824-833.	2.1	47
18	Response of Human Embryonic Stem Cell-Derived Mesenchymal Stem Cells to Osteogenic Factors and Architectures of Materials During <i>In Vitro</i> Osteogenesis. <i>Tissue Engineering - Part A</i> , 2010, 16, 3507-3514.	1.6	45

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19	Optimization of adhesive conditions for neural differentiation of murine embryonic stem cells using hydrogels functionalized with continuous Ile-Lys-Val-Ala-Val concentration gradients. <i>Acta Biomaterialia</i> , 2015, 21, 55-62.	4.1	40
20	ECM Production of Primary Human and Bovine Chondrocytes in Hybrid PEG Hydrogels Containing Type I Collagen and Hyaluronic Acid. <i>Biomacromolecules</i> , 2012, 13, 1625-1631.	2.6	37
21	Effects of free radical initiators on polyethylene glycol dimethacrylate hydrogel properties and biocompatibility. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 3059-3068.	2.1	33
22	Maximizing phenotype constraint and extracellular matrix production in primary human chondrocytes using arginine-glycine-aspartate concentration gradient hydrogels. <i>Acta Biomaterialia</i> , 2013, 9, 7420-7428.	4.1	30
23	Concentration dependent survival and neural differentiation of murine embryonic stem cells cultured on polyethylene glycol dimethacrylate hydrogels possessing a continuous concentration gradient of n-cadherin derived peptide His-Ala-Val-Asp-Ile. <i>Acta Biomaterialia</i> , 2017, 56, 153-160.	4.1	25
24	Convergent genomic and pharmacological evidence of PI3K/GSK3 signaling alterations in neurons from schizophrenia patients. <i>Neuropsychopharmacology</i> , 2021, 46, 673-682.	2.8	24
25	Gradient Material Strategies for Hydrogel Optimization in Tissue Engineering Applications. <i>High-Throughput</i> , 2018, 7, 1.	4.4	20
26	Human Induced Pluripotent Stem Cell Derived Neural Stem Cell Survival and Neural Differentiation on Polyethylene Glycol Dimethacrylate Hydrogels Containing a Continuous Concentration Gradient of N-Cadherin Derived Peptide His-Ala-Val-Asp-Ile. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 776-781.	2.6	19
27	Influence of Discrete and Continuous Culture Conditions on Human Mesenchymal Stem Cell Lineage Choice in RGD Concentration Gradient Hydrogels. <i>Biomacromolecules</i> , 2013, 14, 3047-3054.	2.6	17
28	Combinatorial Method/High Throughput Strategies for Hydrogel Optimization in Tissue Engineering Applications. <i>Gels</i> , 2016, 2, 18.	2.1	14
29	Response to di-functionalized hyaluronic acid with orthogonal chemistry grafting at independent modification sites in rodent models of neural differentiation and spinal cord injury. <i>Journal of Materials Chemistry B</i> , 2016, 4, 6865-6875.	2.9	14
30	Manipulation of Extracellular Matrix Remodeling and Neurite Extension by Mouse Embryonic Stem Cells Using IKVAV and LRE Peptide Tethering in Hyaluronic Acid Matrices. <i>Biomacromolecules</i> , 2019, 20, 3009-3020.	2.6	12
31	Concentration dependent neural differentiation and neurite extension of mouse ESC on primary amine-derivatized surfaces. <i>Biomaterials Science</i> , 2013, 1, 537.	2.6	10
32	Mechanical stabilization of proteolytically degradable polyethylene glycol dimethacrylate hydrogels through peptide interaction. <i>Acta Biomaterialia</i> , 2018, 71, 271-278.	4.1	9
33	Computer-Designed Nano-Fibrous Scaffolds. <i>Methods in Molecular Biology</i> , 2012, 868, 125-134.	0.4	7
34	Expression of SREBP2 and cholesterol metabolism related genes in TCGA glioma cohorts. <i>Medicine (United States)</i> , 2020, 99, e18815.	0.4	7
35	Effect of Laminin Derived Peptides IKVAV and LRE Tethered to Hyaluronic Acid on hiPSC Derived Neural Stem Cell Morphology, Attachment and Neurite Extension. <i>Journal of Functional Biomaterials</i> , 2020, 11, 15.	1.8	7
36	Combination of IKVAV, LRE, and GPQGIWGQ Bioactive Signaling Peptides Increases Human Induced Pluripotent Stem Cell Derived Neural Stem Cells Extracellular Matrix Remodeling and Neurite Extension. <i>Advanced Biology</i> , 2020, 4, e2000084.	3.0	6

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37	The concentration game: differential effects of bioactive signaling in 2D and 3D culture. <i>Neural Regeneration Research</i> , 2016, 11, 66.	1.6	3