

Jennie B Leach

List of Publications by Year in descending order

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33
papers

2,641
citations

331670

21
h-index

454955

30
g-index

36
all docs

36
docs citations

36
times ranked

3933
citing authors

#	ARTICLE	IF	CITATIONS
1	Fate of transition metals in PO ₄ -based <i>in vitro</i> assays: equilibrium modeling and macroscopic studies. <i>Environmental Sciences: Processes and Impacts</i> , 2021, 23, 160-169.	3.5	1
2	Stability of proteins encapsulated in Michaelis-type addition polyethylene glycol hydrogels. <i>Biotechnology and Bioengineering</i> , 2021, 118, 4840-4853.	3.3	9
3	Impact of Four Common Hydrogels on Amyloid- β^2 (A β^2) Aggregation and Cytotoxicity: Implications for 3D Models of Alzheimer's Disease. <i>ACS Omega</i> , 2020, 5, 20250-20260.	3.5	12
4	Collagen hydrogel confinement of Amyloid- β^2 (A β^2) accelerates aggregation and reduces cytotoxic effects. <i>Acta Biomaterialia</i> , 2020, 112, 164-173.	8.3	11
5	Protein folding and assembly in confined environments: Implications for protein aggregation in hydrogels and tissues. <i>Biotechnology Advances</i> , 2020, 42, 107573.	11.7	29
6	Microglial Depletion with CSF1R Inhibitor During Chronic Phase of Experimental Traumatic Brain Injury Reduces Neurodegeneration and Neurological Deficits. <i>Journal of Neuroscience</i> , 2020, 40, 2960-2974.	3.6	193
7	Direct, Real-Time Detection of Adenosine Triphosphate Release from Astrocytes in Three-Dimensional Culture Using an Integrated Electrochemical Aptamer-Based Sensor. <i>ACS Chemical Neuroscience</i> , 2019, 10, 2070-2079.	3.5	38
8	Real-time local oxygen measurements for high resolution cellular imaging. <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 127, 97-104.	1.9	1
9	Enhancement of human neural stem cell self-renewal in 3D hypoxic culture. <i>Biotechnology and Bioengineering</i> , 2017, 114, 1096-1106.	3.3	12
10	Three-Dimensional Environment Sustains Morphological Heterogeneity and Promotes Phenotypic Progression During Astrocyte Development. <i>Tissue Engineering - Part A</i> , 2016, 22, 885-898.	3.1	39
11	The effect of hypoxia and laminin-rich substrates on the proliferative behavior of human neural stem cells. <i>Journal of Materials Chemistry B</i> , 2016, 4, 3509-3514.	5.8	7
12	Naturally-derived and bioinspired materials. <i>Journal of Materials Chemistry B</i> , 2015, 3, 7814-7817.	5.8	4
13	Culturing Neurons, Glia, and Progenitor Cells in Three-Dimensional Hydrogels. <i>Neuromethods</i> , 2015, , 91-99.	0.3	0
14	Protein-Hydrogel Interactions in Tissue Engineering: Mechanisms and Applications. <i>Tissue Engineering - Part B: Reviews</i> , 2013, 19, 160-171.	4.8	66
15	Spatially monitoring oxygen level in 3D microfabricated cell culture systems using optical oxygen sensing beads. <i>Lab on A Chip</i> , 2013, 13, 1586.	6.0	32
16	Hydrolytically degradable poly(ethylene glycol) hydrogel scaffolds as a cell delivery vehicle: Characterization of PC12 cell response. <i>Biotechnology Progress</i> , 2013, 29, 1255-1264.	2.6	41
17	Substrate Three-Dimensionality Induces Elemental Morphological Transformation of Sensory Neurons on a Physiologic Timescale. <i>Tissue Engineering - Part A</i> , 2012, 18, 93-102.	3.1	35
18	Fluorescent silica particles for monitoring oxygen levels in three-dimensional heterogeneous cellular structures. <i>Biotechnology and Bioengineering</i> , 2012, 109, 2663-2670.	3.3	16

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19	Characterization of protein release from hydrolytically degradable poly(ethylene glycol) hydrogels. <i>Biotechnology and Bioengineering</i> , 2011, 108, 197-206.	3.3	112
20	Hydrolytically Degradable Poly(Ethylene Glycol) Hydrogel Scaffolds with Tunable Degradation and Mechanical Properties. <i>Biomacromolecules</i> , 2010, 11, 1348-1357.	5.4	417
21	Influence of cell-adhesive peptide ligands on poly(ethylene glycol) hydrogel physical, mechanical and transport properties. <i>Acta Biomaterialia</i> , 2010, 6, 3404-3414.	8.3	68
22	Bridging the divide between neuroprosthetic design, tissue engineering and neurobiology. <i>Frontiers in Neuroengineering</i> , 2010, 2, 18.	4.8	92
23	Synthesis and Characterization of Carboxymethylcellulose-Methacrylate Hydrogel Cell Scaffolds. <i>Polymers</i> , 2010, 2, 252-264.	4.5	66
24	Understanding Hypoxic Environments: Biomaterials Approaches to Neural Stabilization and Regeneration after Ischemia. <i>Studies in Mechanobiology, Tissue Engineering and Biomaterials</i> , 2010, , 247-274.	1.0	0
25	Solute diffusion and interactions in cross-linked poly(ethylene glycol) hydrogels studied by Fluorescence Correlation Spectroscopy. <i>Soft Matter</i> , 2010, 6, 3609.	2.7	111
26	Fluorescent microparticles for sensing cell microenvironment oxygen levels within 3D scaffolds. <i>Biomaterials</i> , 2009, 30, 3068-3074.	11.4	72
27	Neurite outgrowth and branching of PC12 cells on very soft substrates sharply decreases below a threshold of substrate rigidity. <i>Journal of Neural Engineering</i> , 2007, 4, 26-34.	3.5	183
28	Visualization of Flow-Aligned Type I Collagen Self-Assembly in Tunable pH Gradients. <i>Langmuir</i> , 2007, 23, 357-359.	3.5	54
29	Crosslinked Î±-elastin biomaterials: towards a processable elastin mimetic scaffold. <i>Acta Biomaterialia</i> , 2005, 1, 155-164.	8.3	111
30	Characterization of protein release from photocrosslinkable hyaluronic acid-polyethylene glycol hydrogel tissue engineering scaffolds. <i>Biomaterials</i> , 2005, 26, 125-135.	11.4	393
31	Microaligned collagen matrices by hydrodynamic focusing: controlling the pH-induced self-assembly. <i>Materials Research Society Symposia Proceedings</i> , 2005, 898, 1.	0.1	0
32	Balance of chemistry, topography, and mechanics at the cellâ€“biomaterial interface: Issues and challenges for assessing the role of substrate mechanics on cell response. <i>Surface Science</i> , 2004, 570, 119-133.	1.9	276
33	Development of photocrosslinkable hyaluronic acid-polyethylene glycol-peptide composite hydrogels for soft tissue engineering. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 70A, 74-82.	3.1	131