

Kyle J Lampe

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7756687/kyle-j-lampe-publications-by-citations.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

30
papers

1,705
citations

16
h-index

34
g-index

34
ext. papers

1,990
ext. citations

7
avg, IF

5.19
L-index

#	Paper	IF	Citations
30	Improving viability of stem cells during syringe needle flow through the design of hydrogel cell carriers. <i>Tissue Engineering - Part A</i> , 2012 , 18, 806-15	3.9	452
29	Maintenance of neural progenitor cell stemness in 3D hydrogels requires matrix remodelling. <i>Nature Materials</i> , 2017 , 16, 1233-1242	27	223
28	Defining and designing polymers and hydrogels for neural tissue engineering. <i>Neuroscience Research</i> , 2012 , 72, 199-213	2.9	131
27	Stimuli-Responsive, Pentapeptide, Nanofiber Hydrogel for Tissue Engineering. <i>Journal of the American Chemical Society</i> , 2019 , 141, 4886-4899	16.4	127
26	Design of three-dimensional engineered protein hydrogels for tailored control of neurite growth. <i>Acta Biomaterialia</i> , 2013 , 9, 5590-9	10.8	119
25	Tetrakis(hydroxymethyl) phosphonium chloride as a covalent cross-linking agent for cell encapsulation within protein-based hydrogels. <i>Biomacromolecules</i> , 2012 , 13, 3912-6	6.9	90
24	Impact of lactic acid on cell proliferation and free radical-induced cell death in monolayer cultures of neural precursor cells. <i>Biotechnology and Bioengineering</i> , 2009 , 103, 1214-23	4.9	68
23	The administration of BDNF and GDNF to the brain via PLGA microparticles patterned within a degradable PEG-based hydrogel: Protein distribution and the glial response. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 96, 595-607	5.4	66
22	Effect of macromer weight percent on neural cell growth in 2D and 3D nondegradable PEG hydrogel culture. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 94, 1162-71	5.4	60
21	Matrix Remodeling Enhances the Differentiation Capacity of Neural Progenitor Cells in 3D Hydrogels. <i>Advanced Science</i> , 2019 , 6, 1801716	13.6	58
20	Building stem cell niches from the molecule up through engineered peptide materials. <i>Neuroscience Letters</i> , 2012 , 519, 138-46	3.3	57
19	Impact of degradable macromer content in a poly(ethylene glycol) hydrogel on neural cell metabolic activity, redox state, proliferation, and differentiation. <i>Tissue Engineering - Part A</i> , 2010 , 16, 1857-66	3.9	56
18	Oligodendrocyte Precursor Cell Viability, Proliferation, and Morphology is Dependent on Mesh Size and Storage Modulus in 3D Poly(ethylene glycol)-Based Hydrogels. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 3459-3468	5.5	25
17	Microfluidic gradients reveal enhanced neurite outgrowth but impaired guidance within 3D matrices with high integrin ligand densities. <i>Small</i> , 2015 , 11, 722-30	11	23
16	Mimicking biological phenomena in hydrogel-based biomaterials to promote dynamic cellular responses. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 7867-7880	7.3	21
15	Impact of Elastin-like Protein Temperature Transition on PEG-ELP Hybrid Hydrogel Properties. <i>Biomacromolecules</i> , 2019 , 20, 1914-1925	6.9	16
14	Temperature-Dependent Complex Coacervation of Engineered Elastin-like Polypeptide and Hyaluronic Acid Polyelectrolytes. <i>Biomacromolecules</i> , 2018 , 19, 3925-3935	6.9	15

13	From de novo peptides to native proteins: advancements in biomaterial scaffolds for acute ischemic stroke repair. <i>Biomedical Materials (Bristol)</i> , 2018 , 13, 034103	3.5	13
12	Rapidly Assembling Pentapeptides for Injectable Delivery (RAPID) Hydrogels as Cytoprotective Cell Carriers. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 2117-2121	5.5	12
11	Fabricating PLGA microparticles with high loads of the small molecule antioxidant N-acetylcysteine that rescue oligodendrocyte progenitor cells from oxidative stress. <i>Biotechnology and Bioengineering</i> , 2018 , 115, 246-256	4.9	11
10	Toward a Designable Extracellular Matrix: Molecular Dynamics Simulations of an Engineered Laminin-Mimetic, Elastin-Like Fusion Protein. <i>Biomacromolecules</i> , 2016 , 17, 3222-3233	6.9	10
9	Engineering biomaterial microenvironments to promote myelination in the central nervous system. <i>Brain Research Bulletin</i> , 2019 , 152, 159-174	3.9	10
8	3D Hyaluronic Acid Hydrogels for Modeling Oligodendrocyte Progenitor Cell Behavior as a Function of Matrix Stiffness. <i>Biomacromolecules</i> , 2020 , 21, 4962-4971	6.9	10
7	Engineering Biomaterials to Influence Oligodendroglial Growth, Maturation, and Myelin Production. <i>Cells Tissues Organs</i> , 2016 , 202, 85-101	2.1	10
6	Encapsulated oligodendrocyte precursor cell fate is dependent on PDGF-AA release kinetics in a 3D microparticle-hydrogel drug delivery system. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 2402-2411	5.4	8
5	Guiding Oligodendrocyte Precursor Cell Maturation With Urokinase Plasminogen Activator-Degradable Elastin-like Protein Hydrogels. <i>Biomacromolecules</i> , 2020 , 21, 4724-4736	6.9	6
4	Biomaterials via peptide assembly: design, characterization, and application in tissue engineering. <i>Acta Biomaterialia</i> , 2021 ,	10.8	4
3	Influence of Supraphysiologic Biomaterial Stiffness on Ventricular Mechanics and Myocardial Infarct Reinforcement		1
2	3D Hyaluronic Acid Hydrogels for Modeling Oligodendrocyte Progenitor Cell Behavior as a Function of Matrix Stiffness		1
1	The need for tissue-engineered models to facilitate the study of oligodendrocyte progenitor cells in traumatic brain injury and repair. <i>Current Opinion in Biomedical Engineering</i> , 2022 , 22, 100378	4.4	