

# Kyle J Lampe

## List of Publications by Year in Descending Order

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**Version:** 2024-04-20

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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 | 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> , <b>2022</b> , 22, 100378                             | 4.4  |           |
| 29 | Biomaterials via peptide assembly: design, characterization, and application in tissue engineering. <i>Acta Biomaterialia</i> , <b>2021</b> ,   | 10.8 | 4         |
| 28 | 3D Hyaluronic Acid Hydrogels for Modeling Oligodendrocyte Progenitor Cell Behavior as a Function of Matrix Stiffness. <i>Biomacromolecules</i> , <b>2020</b> , 21, 4962-4971  | 6.9  | 10        |
| 27 | Guiding Oligodendrocyte Precursor Cell Maturation With Urokinase Plasminogen Activator-Degradable Elastin-like Protein Hydrogels. <i>Biomacromolecules</i> , <b>2020</b> , 21, 4724-4736  | 6.9  | 6         |
| 26 | Rapidly Assembling Pentapeptides for Injectable Delivery (RAPID) Hydrogels as Cytoprotective Cell Carriers. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 2117-2121  | 5.5  | 12        |
| 25 | Stimuli-Responsive, Pentapeptide, Nanofiber Hydrogel for Tissue Engineering. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 4886-4899   | 16.4 | 127       |
| 24 | Matrix Remodeling Enhances the Differentiation Capacity of Neural Progenitor Cells in 3D Hydrogels. <i>Advanced Science</i> , <b>2019</b> , 6, 1801716  | 13.6 | 58        |
| 23 | Impact of Elastin-like Protein Temperature Transition on PEG-ELP Hybrid Hydrogel Properties. <i>Biomacromolecules</i> , <b>2019</b> , 20, 1914-1925   | 6.9  | 16        |
| 22 | Engineering biomaterial microenvironments to promote myelination in the central nervous system. <i>Brain Research Bulletin</i> , <b>2019</b> , 152, 159-174   | 3.9  | 10        |
| 21 | 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> , <b>2018</b> , 106, 2402-2411          | 5.4  | 8         |
| 20 | From de novo peptides to native proteins: advancements in biomaterial scaffolds for acute ischemic stroke repair. <i>Biomedical Materials (Bristol)</i> , <b>2018</b> , 13, 034103  | 3.5  | 13        |
| 19 | 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> , <b>2018</b> , 115, 246-256     | 4.9  | 11        |
| 18 | Temperature-Dependent Complex Coacervation of Engineered Elastin-like Polypeptide and Hyaluronic Acid Polyelectrolytes. <i>Biomacromolecules</i> , <b>2018</b> , 19, 3925-3935  | 6.9  | 15        |
| 17 | Maintenance of neural progenitor cell stemness in 3D hydrogels requires matrix remodelling. <i>Nature Materials</i> , <b>2017</b> , 16, 1233-1242   | 27   | 223       |
| 16 | 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> , <b>2017</b> , 3, 3459-3468 | 5.5  | 25        |
| 15 | Toward a Designable Extracellular Matrix: Molecular Dynamics Simulations of an Engineered Laminin-Mimetic, Elastin-Like Fusion Protein. <i>Biomacromolecules</i> , <b>2016</b> , 17, 3222-3233  | 6.9  | 10        |
| 14 | Engineering Biomaterials to Influence Oligodendroglial Growth, Maturation, and Myelin Production. <i>Cells Tissues Organs</i> , <b>2016</b> , 202, 85-101   | 2.1  | 10        |

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|----|--|------|-----|
| 13 | Mimicking biological phenomena in hydrogel-based biomaterials to promote dynamic cellular responses. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 7867-7880  | 7.3  | 21  |
| 12 | Microfluidic gradients reveal enhanced neurite outgrowth but impaired guidance within 3D matrices with high integrin ligand densities. <i>Small</i> , <b>2015</b> , 11, 722-30   | 11   | 23  |
| 11 | Design of three-dimensional engineered protein hydrogels for tailored control of neurite growth. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 5590-9   | 10.8 | 119 |
| 10 | Tetrakis(hydroxymethyl) phosphonium chloride as a covalent cross-linking agent for cell encapsulation within protein-based hydrogels. <i>Biomacromolecules</i> , <b>2012</b> , 13, 3912-6  | 6.9  | 90  |
| 9  | Building stem cell niches from the molecule up through engineered peptide materials. <i>Neuroscience Letters</i> , <b>2012</b> , 519, 138-46   | 3.3  | 57  |
| 8  | Defining and designing polymers and hydrogels for neural tissue engineering. <i>Neuroscience Research</i> , <b>2012</b> , 72, 199-213  | 2.9  | 131 |
| 7  | Improving viability of stem cells during syringe needle flow through the design of hydrogel cell carriers. <i>Tissue Engineering - Part A</i> , <b>2012</b> , 18, 806-15   | 3.9  | 452 |
| 6  | 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> , <b>2011</b> , 96, 595-607 | 5.4  | 66  |
| 5  | 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> , <b>2010</b> , 16, 1857-66                                 | 3.9  | 56  |
| 4  | 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> , <b>2010</b> , 94, 1162-71  | 5.4  | 60  |
| 3  | 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> , <b>2009</b> , 103, 1214-23  | 4.9  | 68  |
| 2  | Influence of Supraphysiologic Biomaterial Stiffness on Ventricular Mechanics and Myocardial Infarct Reinforcement  |      | 1   |
| 1  | 3D Hyaluronic Acid Hydrogels for Modeling Oligodendrocyte Progenitor Cell Behavior as a Function of Matrix Stiffness   |      | 1   |