

# Luke J Mortensen

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4469552/publications.pdf>

Version: 2024-02-01

60  
papers

2,787  
citations

331259

21  
h-index

223531

46  
g-index

64  
all docs

64  
docs citations

64  
times ranked

5228  
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterizing human mesenchymal stromal cells' immune-modulatory potency using targeted lipidomic profiling of sphingolipids. <i>Cytotherapy</i> , 2022, 24, 608-618.	0.3	10
2	Heparin/collagen surface coatings modulate the growth, secretome, and morphology of human mesenchymal stromal cell response to <scp>interferon'gamma</scp>. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 951-965.	2.1	10
3	Spatial frequency metrics for analysis of microscopic images of musculoskeletal tissues. <i>Connective Tissue Research</i> , 2021, 62, 4-14.	1.1	15
4	In situ measurement of the isoplanatic patch for imaging through intact bone. <i>Journal of Biophotonics</i> , 2021, 14, e202000160.	1.1	7
5	Lifelong Ulk1-Mediated Autophagy Deficiency in Muscle Induces Mitochondrial Dysfunction and Contractile Weakness. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1937.	1.8	14
6	Nanofiber-Based Delivery of Bioactive Lipids Promotes Pro-regenerative Inflammation and Enhances Muscle Fiber Growth After Volumetric Muscle Loss. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 650289.	2.0	6
7	Shape Up Before You Ship Out: Morphology as a Potential Critical Quality Attribute for Cellular Therapies. <i>Current Opinion in Biomedical Engineering</i> , 2021, 20, 100352.	1.8	2
8	Adaptive Optics Microscopy for Mouse Imaging. , 2021, , .		0
9	Mitochondrial-specific autophagy linked to mitochondrial dysfunction following traumatic freeze injury in mice. <i>American Journal of Physiology - Cell Physiology</i> , 2020, 318, C242-C252.	2.1	19
10	Second harmonic generation characterization of collagen in whole bone. <i>Biomedical Optics Express</i> , 2020, 11, 4379.	1.5	19
11	PGC-1' overexpression partially rescues impaired oxidative and contractile pathophysiology following volumetric muscle loss injury. <i>Scientific Reports</i> , 2019, 9, 4079.	1.6	33
12	Bitter taste receptor T2R7 and umami taste receptor subunit T1R1 are expressed highly in Vimentin-negative taste bud cells in chickens. <i>Biochemical and Biophysical Research Communications</i> , 2019, 511, 280-286.	1.0	13
13	Five-dimensional two-photon volumetric microscopy of in-vivo dynamic activities using liquid lens remote focusing. <i>Biomedical Optics Express</i> , 2019, 10, 3591.	1.5	28
14	Characterization of memory effect in juvenile mouse skull for imaging through intact bone. , 2019, , .		0
15	Two-photon deep-tissue spatially resolved mitochondrial imaging using membrane potential fluorescence fluctuations. <i>Biomedical Optics Express</i> , 2018, 9, 254.	1.5	15
16	Chronic Electrical Stimulation Promotes the Excitability and Plasticity of ESC-derived Neurons following Glutamate-induced Inhibition In vitro. <i>Scientific Reports</i> , 2018, 8, 10957.	1.6	33
17	Novel Lipid Signaling Mediators for Mesenchymal Stem Cell Mobilization During Bone Repair. <i>Cellular and Molecular Bioengineering</i> , 2018, 11, 241-253.	1.0	7
18	The Wave2 scaffold Hem-1 is required for transition of fetal liver hematopoiesis to bone marrow. <i>Nature Communications</i> , 2018, 9, 2377.	5.8	15

#	ARTICLE	IF	CITATIONS
19	Resolution enhancement of 2-photon microscopy using high-refractive index microspheres. , 2018, , .		4
20	Characterization of bone collagen organization defects in murine hypophosphatasia using a Zernike model of optical aberrations. , 2018, , .		0
21	Finite difference time domain modeling of wavefront aberrations in bone using second harmonic generation microscopy (Conference Presentation). , 2018, , .		0
22	Modelling of optical aberrations caused by light propagation in mouse cranial bone using second harmonic generation imaging. , 2017, , .		1
23	Postnatal Calvarial Skeletal Stem Cells Expressing PRX1 Reside Exclusively in the Calvarial Sutures and Are Required for Bone Regeneration. Stem Cell Reports, 2017, 8, 933-946.	2.3	113
24	Fast axial scanning for 2-photon microscopy using liquid lens technology. , 2017, 10070, .		3
25	Image-guided transplantation of single cells in the bone marrow of live animals. Scientific Reports, 2017, 7, 3875.	1.6	15
26	Effect of Nanoparticle Surface Coating on Cell Toxicity and Mitochondria Uptake. Journal of Biomedical Nanotechnology, 2017, 13, 155-166.	0.5	35
27	Characterization of wavefront errors in mouse cranial bone using second-harmonic generation. Journal of Biomedical Optics, 2017, 22, 036012.	1.4	17
28	Spatially Resolved Mitochondrial 2-Photon Imaging Using Flickering Membrane Potential Fluorescence. , 2017, , .		0
29	Glycoengineering of E-Selectin Ligands by Intracellular versus Extracellular Fucosylation Differentially Affects Osteotropism of Human Mesenchymal Stem Cells. Stem Cells, 2016, 34, 2501-2511.	1.4	48
30	Deep tissue single cell MSC ablation using a fiber laser source to evaluate therapeutic potential in osteogenesis imperfecta. Proceedings of SPIE, 2016, , .	0.8	2
31	Wavelet-based denoising of the Fourier metric in real-time wavefront correction for single molecule localization microscopy. , 2016, , .		1
32	Tetrandrine identified in a small molecule screen to activate mesenchymal stem cells for enhanced immunomodulation. Scientific Reports, 2016, 6, 30263.	1.6	24
33	Labeling and analysis of chicken taste buds using molecular markers in oral epithelial sheets. Scientific Reports, 2016, 6, 37247.	1.6	29
34	Tracking and Quantification of Magnetically Labeled Stem Cells Using Magnetic Resonance Imaging. Advanced Functional Materials, 2016, 26, 3899-3915.	7.8	35
35	Skeletal stem cells for bone development, homeostasis and repair: one or many?. BoneKey Reports, 2015, 4, 769.	2.7	5
36	A Small-Molecule Screen for Enhanced Homing of Systemically Infused Cells. Cell Reports, 2015, 10, 1261-1268.	2.9	45

#	ARTICLE	IF	CITATIONS
37	Femtosecond laser bone ablation with a high repetition rate fiber laser source. <i>Biomedical Optics Express</i> , 2015, 6, 32.	1.5	37
38	UVB Dependence of Quantum Dot Reactive Oxygen Species Generation in Common Skin Cell Models. <i>Journal of Biomedical Nanotechnology</i> , 2015, 11, 1644-1652.	0.5	8
39	In Vivo Femtosecond Ablation and Imaging in Bone with a High Repetition Rate Source. , 2015, , .		0
40	Silencing of CCR2 in myocarditis. <i>European Heart Journal</i> , 2015, 36, 1478-1488.	1.0	101
41	In Vivo Imaging of Microglia Turnover in the Mouse Retina After Ionizing Radiation and Dexamethasone Treatment. , 2014, 55, 5314.		34
42	Characterization of multiphoton microscopy in the bone marrow following intravital laser osteotomy. <i>Biomedical Optics Express</i> , 2014, 5, 3578.	1.5	33
43	In Vivo Imaging of Bone Marrow Stem Cells. , 2014, , 143-162.		1
44	Direct measurement of local oxygen concentration in the bone marrow of live animals. <i>Nature</i> , 2014, 508, 269-273.	13.7	933
45	An authentic imaging probe to track cell fate from beginning to end. <i>Nature Communications</i> , 2014, 5, 5216.	5.8	22
46	ABCB5 is a limbal stem cell gene required for corneal development and repair. <i>Nature</i> , 2014, 511, 353-357.	13.7	217
47	The impact of UVB exposure and differentiation state of primary keratinocytes on their interaction with quantum dots. <i>Nanotoxicology</i> , 2013, 7, 1244-1254.	1.6	7
48	mRNA-engineered mesenchymal stem cells for targeted delivery of interleukin-10 to sites of inflammation. <i>Blood</i> , 2013, 122, e23-e32.	0.6	169
49	Thiol Antioxidant-Functionalized CdSe/ZnS Quantum Dots: Synthesis, Characterization, Cytotoxicity. <i>Journal of Biomedical Nanotechnology</i> , 2013, 9, 382-392.	0.5	28
50	Improved diffuse fluorescence flow cytometer prototype for high sensitivity detection of rare circulating cells <i>in vivo</i> . <i>Journal of Biomedical Optics</i> , 2013, 18, 077002.	1.4	11
51	Quantification of quantum dot murine skin penetration with UVR barrier impairment. <i>Nanotoxicology</i> , 2013, 7, 1386-1398.	1.6	27
52	Quantification of Mesenchymal Stem Cell (MSC) Delivery to a Target Site Using In Vivo Confocal Microscopy. <i>PLoS ONE</i> , 2013, 8, e78145.	1.1	15
53	Advances in Single-cell Tracking of Mesenchymal Stem Cells (MSCs) During Musculoskeletal Regeneration. , 2012, 14, 22-28.		3
54	Quantification of human skin barrier function and susceptibility to quantum dot skin penetration. <i>Nanotoxicology</i> , 2011, 5, 675-686.	1.6	22

#	ARTICLE	IF	CITATIONS
55	Near-IR fluorescence and reflectance confocal microscopy for imaging of quantum dots in mammalian skin. Biomedical Optics Express, 2011, 2, 1610.	1.5	14
56	Engineered cell homing. Blood, 2011, 118, e184-e191.	0.6	187
57	Progress and Challenges in Quantifying Skin Permeability to Nanoparticles Using a Quantum Dot Model. Journal of Biomedical Nanotechnology, 2010, 6, 596-604.	0.5	9
58	Increased in vivo skin penetration of quantum dots with UVR and in vitro quantum dot cytotoxicity. , 2009, , .		7
59	Breaching Epithelial Barriers – Physiochemical Factors Impacting Nanomaterial Translocation and Toxicity. Nanostructure Science and Technology, 2009, , 33-62.	0.1	4
60	In Vivo Skin Penetration of Quantum Dot Nanoparticles in the Murine Model: The Effect of UVR. Nano Letters, 2008, 8, 2779-2787.	4.5	273