

Luke J Mortensen

List of Publications by Year in descending order

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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	Direct measurement of local oxygen concentration in the bone marrow of live animals. <i>Nature</i> , 2014, 508, 269-273.	13.7	933
2	In Vivo Skin Penetration of Quantum Dot Nanoparticles in the Murine Model: The Effect of UVR. <i>Nano Letters</i> , 2008, 8, 2779-2787.	4.5	273
3	ABC5 is a limbal stem cell gene required for corneal development and repair. <i>Nature</i> , 2014, 511, 353-357.	13.7	217
4	Engineered cell homing. <i>Blood</i> , 2011, 118, e184-e191.	0.6	187
5	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
6	Postnatal Calvarial Skeletal Stem Cells Expressing PRX1 Reside Exclusively in the Calvarial Sutures and Are Required for Bone Regeneration. <i>Stem Cell Reports</i> , 2017, 8, 933-946.	2.3	113
7	Silencing of CCR2 in myocarditis. <i>European Heart Journal</i> , 2015, 36, 1478-1488.	1.0	101
8	Glycoengineering of E-Selectin Ligands by Intracellular versus Extracellular Fucosylation Differentially Affects Osteotropism of Human Mesenchymal Stem Cells. <i>Stem Cells</i> , 2016, 34, 2501-2511.	1.4	48
9	A Small-Molecule Screen for Enhanced Homing of Systemically Infused Cells. <i>Cell Reports</i> , 2015, 10, 1261-1268.	2.9	45
10	Femtosecond laser bone ablation with a high repetition rate fiber laser source. <i>Biomedical Optics Express</i> , 2015, 6, 32.	1.5	37
11	Tracking and Quantification of Magnetically Labeled Stem Cells Using Magnetic Resonance Imaging. <i>Advanced Functional Materials</i> , 2016, 26, 3899-3915.	7.8	35
12	Effect of Nanoparticle Surface Coating on Cell Toxicity and Mitochondria Uptake. <i>Journal of Biomedical Nanotechnology</i> , 2017, 13, 155-166.	0.5	35
13	In Vivo Imaging of Microglia Turnover in the Mouse Retina After Ionizing Radiation and Dexamethasone Treatment. <i>Journal of Biomedical Nanotechnology</i> , 2014, 55, 5314.		34
14	Characterization of multiphoton microscopy in the bone marrow following intravital laser osteotomy. <i>Biomedical Optics Express</i> , 2014, 5, 3578.	1.5	33
15	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
16	PGC-1 α overexpression partially rescues impaired oxidative and contractile pathophysiology following volumetric muscle loss injury. <i>Scientific Reports</i> , 2019, 9, 4079.	1.6	33
17	Labeling and analysis of chicken taste buds using molecular markers in oral epithelial sheets. <i>Scientific Reports</i> , 2016, 6, 37247.	1.6	29
18	Thiol Antioxidant-Functionalized CdSe/ZnS Quantum Dots: Synthesis, Characterization, Cytotoxicity. <i>Journal of Biomedical Nanotechnology</i> , 2013, 9, 382-392.	0.5	28

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19	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
20	Quantification of quantum dot murine skin penetration with UVR barrier impairment. <i>Nanotoxicology</i> , 2013, 7, 1386-1398.	1.6	27
21	Tetrandrine identified in a small molecule screen to activate mesenchymal stem cells for enhanced immunomodulation. <i>Scientific Reports</i> , 2016, 6, 30263.	1.6	24
22	Quantification of human skin barrier function and susceptibility to quantum dot skin penetration. <i>Nanotoxicology</i> , 2011, 5, 675-686.	1.6	22
23	An authentic imaging probe to track cell fate from beginning to end. <i>Nature Communications</i> , 2014, 5, 5216.	5.8	22
24	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
25	Second harmonic generation characterization of collagen in whole bone. <i>Biomedical Optics Express</i> , 2020, 11, 4379.	1.5	19
26	Characterization of wavefront errors in mouse cranial bone using second-harmonic generation. <i>Journal of Biomedical Optics</i> , 2017, 22, 036012.	1.4	17
27	Image-guided transplantation of single cells in the bone marrow of live animals. <i>Scientific Reports</i> , 2017, 7, 3875.	1.6	15
28	Two-photon deep-tissue spatially resolved mitochondrial imaging using membrane potential fluorescence fluctuations. <i>Biomedical Optics Express</i> , 2018, 9, 254.	1.5	15
29	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
30	Spatial frequency metrics for analysis of microscopic images of musculoskeletal tissues. <i>Connective Tissue Research</i> , 2021, 62, 4-14.	1.1	15
31	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
32	Near-IR fluorescence and reflectance confocal microscopy for imaging of quantum dots in mammalian skin. <i>Biomedical Optics Express</i> , 2011, 2, 1610.	1.5	14
33	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
34	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
35	Improved diffuse fluorescence flow cytometer prototype for high sensitivity detection of rare circulating cells in vivo. <i>Journal of Biomedical Optics</i> , 2013, 18, 077002.	1.4	11
36	Heparin/collagen surface coatings modulate the growth, secretome, and morphology of human mesenchymal stromal cell response to γ -interferon. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 951-965.	2.1	10

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37	Characterizing human mesenchymal stromal cells' immune-modulatory potency using targeted lipidomic profiling of sphingolipids. <i>Cytotherapy</i> , 2022, 24, 608-618.	0.3	10
38	Progress and Challenges in Quantifying Skin Permeability to Nanoparticles Using a Quantum Dot Model. <i>Journal of Biomedical Nanotechnology</i> , 2010, 6, 596-604.	0.5	9
39	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
40	Increased in vivo skin penetration of quantum dots with UVR and in vitro quantum dot cytotoxicity. , 2009, , .		7
41	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
42	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
43	In situ measurement of the isoplanatic patch for imaging through intact bone. <i>Journal of Biophotonics</i> , 2021, 14, e202000160.	1.1	7
44	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
45	Skeletal stem cells for bone development, homeostasis and repair: one or many?. <i>BoneKEy Reports</i> , 2015, 4, 769.	2.7	5
46	Breaching Epithelial Barriers " Physiochemical Factors Impacting Nanomaterial Translocation and Toxicity. <i>Nanostructure Science and Technology</i> , 2009, , 33-62.	0.1	4
47	Resolution enhancement of 2-photon microscopy using high-refractive index microspheres. , 2018, , .		4
48	Fast axial scanning for 2-photon microscopy using liquid lens technology. , 2017, 10070, .		3
49	Advances in Single-cell Tracking of Mesenchymal Stem Cells (MSCs) During Musculoskeletal Regeneration. , 2012, 14, 22-28.		3
50	Deep tissue single cell MSC ablation using a fiber laser source to evaluate therapeutic potential in osteogenesis imperfecta. <i>Proceedings of SPIE</i> , 2016, , .	0.8	2
51	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
52	In Vivo Imaging of Bone Marrow Stem Cells. , 2014, , 143-162.		1
53	Wavelet-based denoising of the Fourier metric in real-time wavefront correction for single molecule localization microscopy. , 2016, , .		1
54	Modelling of optical aberrations caused by light propagation in mouse cranial bone using second harmonic generation imaging. , 2017, , .		1

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55	In Vivo Femtosecond Ablation and Imaging in Bone with a High Repetition Rate Source. , 2015, , .		0
56	Spatially Resolved Mitochondrial 2-Photon Imaging Using Flickering Membrane Potential Fluorescence. , 2017, , .		0
57	Characterization of bone collagen organization defects in murine hypophosphatasia using a Zernike model of optical aberrations. , 2018, , .		0
58	Finite difference time domain modeling of wavefront aberrations in bone using second harmonic generation microscopy (Conference Presentation). , 2018, , .		0
59	Characterization of memory effect in juvenile mouse skull for imaging through intact bone. , 2019, , .		0
60	Adaptive Optics Microscopy for Mouse Imaging. , 2021, , .		0