

Charles Lin

List of Publications by Year in descending order

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103
papers

9,465
citations

117619

34
h-index

56717

83
g-index

105
all docs

105
docs citations

105
times ranked

14321
citing authors

#	ARTICLE	IF	CITATIONS
1	Proton export alkalinizes intracellular pH and reprograms carbon metabolism to drive normal and malignant cell growth. <i>Blood</i> , 2022, 139, 502-522.	1.4	23
2	Quantification of bone marrow interstitial pH and calcium concentration by intravital ratiometric imaging. <i>Nature Communications</i> , 2022, 13, 393.	12.8	17
3	Ultrahigh resolution spectral-domain optical coherence tomography using the 1000â€“1600â€“nm spectral band. <i>Biomedical Optics Express</i> , 2022, 13, 1939.	2.9	4
4	Cerebrospinal fluid can exit into the skull bone marrow and instruct cranial hematopoiesis in mice with bacterial meningitis. <i>Nature Neuroscience</i> , 2022, 25, 567-576.	14.8	72
5	Remediating Desmoplasia with EGFRâ€“Targeted Photoactivable Multiâ€“Inhibitor Liposomes Doubles Overall Survival in Pancreatic Cancer. <i>Advanced Science</i> , 2022, 9, .	11.2	22
6	Imaging dynamic mTORC1 pathway activity in vivo reveals marked shifts that support time-specific inhibitor therapy in AML. <i>Nature Communications</i> , 2021, 12, 245.	12.8	18
7	Activation of creER recombinase in the mouse calvaria induces local recombination without effects on distant skeletal segments. <i>Scientific Reports</i> , 2021, 11, 8214.	3.3	1
8	Skin-resident natural killer T cells participate in cutaneous allergic inflammation in atopic dermatitis. <i>Journal of Allergy and Clinical Immunology</i> , 2021, 147, 1764-1777.	2.9	23
9	Intravital fluorescence microscopy with negative contrast. <i>PLoS ONE</i> , 2021, 16, e0255204.	2.5	6
10	Control of osteocyte dendrite formation by Sp7 and its target gene osteocrin. <i>Nature Communications</i> , 2021, 12, 6271.	12.8	41
11	Engineering functional microvessels in synthetic polyurethane random-pore scaffolds by harnessing perfusion flow. <i>Biomaterials</i> , 2020, 256, 120183.	11.4	3
12	Live-animal imaging of native haematopoietic stem and progenitor cells. <i>Nature</i> , 2020, 578, 278-283.	27.8	171
13	Prx1 Expressing Cells Are Required for Periodontal Regeneration of the Mouse Incisor. <i>Frontiers in Physiology</i> , 2019, 10, 591.	2.8	16
14	Lineage Tracing Reveals a Subset of Reserve Muscle Stem Cells Capable of Clonal Expansion under Stress. <i>Cell Stem Cell</i> , 2019, 24, 944-957.e5.	11.1	78
15	Neutrophil adhesion in brain capillaries reduces cortical blood flow and impairs memory function in Alzheimerâ€™s disease mouse models. <i>Nature Neuroscience</i> , 2019, 22, 413-420.	14.8	316
16	Epigenetic Activation of the pH Regulator MCT4 in Acute Myeloid Leukemia Exploits a Fundamental Metabolic Process of Enhancing Cell Growth through Proton Shifting. <i>Blood</i> , 2019, 134, 3765-3765.	1.4	1
17	Thymus Regeneration Is Dependent on Distinct Mesenchymal Stromal Cell Populations. <i>Blood</i> , 2019, 134, 586-586.	1.4	1
18	In Vivo 3D Histomorphometry Quantifies Bone Apposition and Skeletal Progenitor Cell Differentiation. <i>Scientific Reports</i> , 2018, 8, 5580.	3.3	14

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19	Staged development of long-lived T-cell receptor $\hat{I} \pm \hat{I}^2$ T H 17 resident memory T-cell population to <i>Candida albicans</i> after skin infection. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 142, 647-662.	2.9	104
20	Hormonal Regulation of Osteocyte Perilacunar and Canalicular Remodeling in the Hyp Mouse Model of X-Linked Hypophosphatemia. <i>Journal of Bone and Mineral Research</i> , 2018, 33, 499-509.	2.8	43
21	Fiber-based tunable repetition rate source for deep tissue two-photon fluorescence microscopy. <i>Biomedical Optics Express</i> , 2018, 9, 2304.	2.9	60
22	Imaging the Vascular Bone Marrow Niche During Inflammatory Stress. <i>Circulation Research</i> , 2018, 123, 415-427.	4.5	45
23	The Wave2 scaffold Hem-1 is required for transition of fetal liver hematopoiesis to bone marrow. <i>Nature Communications</i> , 2018, 9, 2377.	12.8	15
24	Intravital Imaging of Mouse Bone Marrow: Hemodynamics and Vascular Permeability. <i>Methods in Molecular Biology</i> , 2018, 1763, 11-22.	0.9	7
25	Specific and Targetable Interactions with the Bone Marrow Microenvironment Govern Outcome in Imatinib-Resistant Chronic Myeloid Leukemia. <i>Blood</i> , 2018, 132, 936-936.	1.4	1
26	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.	4.8	113
27	Image-guided transplantation of single cells in the bone marrow of live animals. <i>Scientific Reports</i> , 2017, 7, 3875.	3.3	15
28	Intravital multiphoton photoconversion with a cell membrane dye. <i>Journal of Biophotonics</i> , 2017, 10, 206-210.	2.3	4
29	Intravital imaging of osteocytes in mouse calvaria using third harmonic generation microscopy. <i>PLoS ONE</i> , 2017, 12, e0186846.	2.5	38
30	Intravital imaging of the lacunar-canalicular network in mouse calvaria using third harmonic generation microscopy. , 2017, , .		0
31	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.	3.2	48
32	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
33	Defining Clonal Color in Fluorescent Multi-Clonal Tracking. <i>Scientific Reports</i> , 2016, 6, 24303.	3.3	10
34	Distinct bone marrow blood vessels differentially regulate haematopoiesis. <i>Nature</i> , 2016, 532, 323-328.	27.8	553
35	Self-renewal of a purified <i>Tie2</i> hematopoietic stem cell population relies on mitochondrial clearance. <i>Science</i> , 2016, 354, 1156-1160.	12.6	251
36	Proximity-Based Differential Single-Cell Analysis of the Niche to Identify Stem/Progenitor Cell Regulators. <i>Cell Stem Cell</i> , 2016, 19, 530-543.	11.1	136

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37	Epigenetic Memory Underlies Cell-Autonomous Heterogeneous Behavior of Hematopoietic Stem Cells. Cell, 2016, 167, 1310-1322.e17.	28.9	153
38	Tetrandrine identified in a small molecule screen to activate mesenchymal stem cells for enhanced immunomodulation. Scientific Reports, 2016, 6, 30263.	3.3	24
39	Molecular Order of Arterial Collagen Using Circular Polarization Second-Harmonic Generation Imaging. Biophysical Journal, 2016, 110, 530-533.	0.5	13
40	Medical Adhesives: Bioinspired Nanoparticulate Medical Glues for Minimally Invasive Tissue Repair (Adv. Healthcare Mater. 16/2015). Advanced Healthcare Materials, 2015, 4, 2318-2318.	7.6	0
41	Bioinspired Nanoparticulate Medical Glues for Minimally Invasive Tissue Repair. Advanced Healthcare Materials, 2015, 4, 2587-2596.	7.6	36
42	Blood Accessibility to Fibrin in Venous Thrombosis is Thrombus Age-Dependent and Predicts Fibrinolytic Efficacy: An In Vivo Fibrin Molecular Imaging Study. Theranostics, 2015, 5, 1317-1327.	10.0	21
43	Statins Improve the Resolution of Established Murine Venous Thrombosis: Reductions in Thrombus Burden and Vein Wall Scarring. PLoS ONE, 2015, 10, e0116621.	2.5	45
44	Analyzing Structure and Function of Vascularization in Engineered Bone Tissue by Video-Rate Intravital Microscopy and 3D Image Processing. Tissue Engineering - Part C: Methods, 2015, 21, 1025-1031.	2.1	7
45	Rapid Functional Decline of Activated and Memory Graft-versus-Hostâ€“Reactive T Cells Encountering Host Antigens in the Absence of Inflammation. Journal of Immunology, 2015, 195, 1282-1292.	0.8	5
46	Continuous volumetric imaging via an optical phase-locked ultrasound lens. Nature Methods, 2015, 12, 759-762.	19.0	168
47	Femtosecond laser bone ablation with a high repetition rate fiber laser source. Biomedical Optics Express, 2015, 6, 32.	2.9	37
48	Intravital Imaging of Mesenchymal Stem Cell Trafficking and Association With Platelets and Neutrophils. Stem Cells, 2015, 33, 265-277.	3.2	63
49	Distinct Bone Marrow Blood Vessels Differentially Regulate Normal and Malignant Hematopoietic Stem and Progenitor Cells. Blood, 2015, 126, 664-664.	1.4	1
50	Abstract A41: Shaping Myc-dependent transcriptional amplification. , 2015, , .		0
51	Embigin Regulates HSPC Homing and Quiescence and Acts As a Cell Surface Marker for a Niche Factor-Enriched Subset of Osteolineage Cells. Blood, 2015, 126, 663-663.	1.4	2
52	In Vivo Imaging of Microglia Turnover in the Mouse Retina After Ionizing Radiation and Dexamethasone Treatment. , 2014, 55, 5314.		34
53	Characterization of multiphoton microscopy in the bone marrow following intravital laser osteotomy. Biomedical Optics Express, 2014, 5, 3578.	2.9	33
54	In Vivo Imaging of Bone Marrow Stem Cells. , 2014, , 143-162.		1

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55	Direct measurement of local oxygen concentration in the bone marrow of live animals. <i>Nature</i> , 2014, 508, 269-273.	27.8	933
56	An authentic imaging probe to track cell fate from beginning to end. <i>Nature Communications</i> , 2014, 5, 5216.	12.8	22
57	Circulating Tumor Cell Clusters Are Oligoclonal Precursors of Breast Cancer Metastasis. <i>Cell</i> , 2014, 158, 1110-1122.	28.9	1,960
58	Arterial Extracellular Matrix: A Mechanobiological Study of the Contributions and Interactions of Elastin and Collagen. <i>Biophysical Journal</i> , 2014, 106, 2684-2692.	0.5	172
59	Sequential &In vivo& Imaging of Osteogenic Stem/Progenitor Cells During Fracture Repair. <i>Journal of Visualized Experiments</i> , 2014, , .	0.3	12
60	Inhibiting stromal cell heparan sulfate synthesis improves stem cell mobilization and enables engraftment without cytotoxic conditioning. <i>Blood</i> , 2014, 124, 2937-2947.	1.4	39
61	Intravital Imaging of Hematopoietic Stem Cells in the Mouse Skull. <i>Methods in Molecular Biology</i> , 2014, 1185, 247-265.	0.9	10
62	Proximity-Based Single Cell Analysis of the Bone Marrow Niche Identifies Interleukin-18 As a Quiescence Regulator of Early Hematopoietic Progenitors. <i>Blood</i> , 2014, 124, 773-773.	1.4	1
63	The Microanatomy of the Leukemic Stem Cell Niche in Murine Chronic Myelogenous Leukemia. <i>Blood</i> , 2014, 124, 351-351.	1.4	2
64	mRNA-engineered mesenchymal stem cells for targeted delivery of interleukin-10 to sites of inflammation. <i>Blood</i> , 2013, 122, e23-e32.	1.4	169
65	Soluble Guanylate Cyclase a"Deficient Mice: A Novel Murine Model for Primary Open Angle Glaucoma. <i>Annals of Neurosciences</i> , 2013, 20, 65-6.	1.7	3
66	Tracking Single Cells in Live Animals Using a Photoconvertible Near-Infrared Cell Membrane Label. <i>PLoS ONE</i> , 2013, 8, e69257.	2.5	50
67	Quantification of Mesenchymal Stem Cell (MSC) Delivery to a Target Site Using In Vivo Confocal Microscopy. <i>PLoS ONE</i> , 2013, 8, e78145.	2.5	15
68	In vivo tracking of hematopoietic cells in the retina of chimeric mice with a scanning laser ophthalmoscope. <i>Intravital</i> , 2012, 1, 132-140.	2.0	15
69	In vivo quantification of microglia dynamics with a scanning laser ophthalmoscope in a mouse model of focal laser injury. , 2012, , .		6
70	In vivo imaging of transplanted hematopoietic stem and progenitor cells in mouse calvarium bone marrow. <i>Nature Protocols</i> , 2011, 6, 1-14.	12.0	135
71	Hypoxia Promotes Dissemination of Multiple Myeloma Through Acquisition of Endothelial to Mesenchymal Transition (EMT) Features. <i>Blood</i> , 2011, 118, 471-471.	1.4	0
72	Real-Time RT-PCR Analysis of Individual Osteolineage Cells within the Hematopoietic Stem Cell Niche. <i>Blood</i> , 2011, 118, 2389-2389.	1.4	0

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73	Role of TORC1 and TORC2 in Multiple Myeloma. Blood, 2011, 118, 1815-1815.	1.4	1
74	An adaptive-optics scanning laser ophthalmoscope for imaging murine retinal microstructure. Proceedings of SPIE, 2010, , .	0.8	8
75	Multiphoton Microscopy of Live Tissues With Ultraviolet Autofluorescence. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 516-523.	2.9	25
76	Dynamic Regulation of the Level of Hypoxia In the Bone Marrow Regulates Cell Dissemination In Multiple Myeloma. Blood, 2010, 116, 4035-4035.	1.4	0
77	<i>In vivo</i> imaging of hematopoietic stem cells and their microenvironment. Journal of Biophotonics, 2009, 2, 619-631.	2.3	85
78	Live-animal tracking of individual haematopoietic stem/progenitor cells in their niche. Nature, 2009, 457, 92-96.	27.8	800
79	Role of selectins in the pathogenesis of multiple myeloma. Journal of Clinical Oncology, 2009, 27, 11103-11103.	1.6	0
80	Primary Waldenström Macroglobulinemia Cells Harbor Constitutive Activation of Akt, mTOR, Rictor and Raptor: Rational for Testing a Dual Inhibitor of the PI3K/Akt and mTOR Pathways in This Disease.. Blood, 2009, 114, 3843-3843.	1.4	0
81	Persistence of Donor-Derived Protein in Host Myeloid Cells After Induced Rejection of Engrafted Allogeneic Bone Marrow Cells.. Blood, 2009, 114, 63-63.	1.4	0
82	Role of Hypoxia in the Progression and Dissemination of Multiple Myeloma.. Blood, 2009, 114, 421-421.	1.4	0
83	Niche Induced Myelodysplasia and Secondary Hematopoietic Neoplasia Caused by Deletion of Dicer1 in Osteoprogenitor Cells.. Blood, 2009, 114, 247-247.	1.4	0
84	Regulation of Rho GTPases by the Hematopoietic-Specific Guanine Nucleotide Exchange Factor Vav1 Is Critical for Hematopoietic Stem Cell Retention in the Endosteal Niche and Engraftment.. Blood, 2009, 114, 80-80.	1.4	0
85	Leukemia Stem Cells Are Resistant to In Vivo, Cell Non-Autonomous Wnt Inhibition.. Blood, 2009, 114, 1025-1025.	1.4	0
86	Ex vivo glycan engineering of CD44 programs human multipotent mesenchymal stromal cell trafficking to bone. Nature Medicine, 2008, 14, 181-187.	30.7	573
87	In Vivo Cell Tracking With Video Rate Multimodality Laser Scanning Microscopy. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 10-18.	2.9	136
88	Rho-a and Rac-1 GTPases Play Major and Differential Roles in SDF1 α - Induced Cell Adhesion and Chemotaxis in Multiple Myeloma.. Blood, 2008, 112, 1666-1666.	1.4	0
89	In vivo fluorescent imaging of the mouse retina using adaptive optics. Optics Letters, 2007, 32, 659.	3.3	75
90	Ex Vivo Glycan Engineering of Membrane CD44 To Create HCELL Programs Human Mesenchymal Stem Cell Trafficking to Bone.. Blood, 2007, 110, 218-218.	1.4	2

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91	In Vivo Mobilization of Multiple Myeloma Cells Out of the Bone Marrow Using the CXCR4 Inhibitor AMD3100 and Bortezomib: Implications for Sensitization of Myeloma Cells to Apoptosis.. Blood, 2007, 110, 2501-2501.	1.4	16
92	Regulation of the New CXCR7 Receptor in Plasma Cell Dyscrasias.. Blood, 2007, 110, 3527-3527.	1.4	0
93	Imaging Molecular Expression on Vascular Endothelial Cells by In Vivo Immunofluorescence Microscopy. Molecular Imaging, 2006, 5, 7290.2006.00004.	1.4	31
94	A Novel Real-Time In Vivo Homing Model of Multiple Myeloma.. Blood, 2006, 108, 242-242.	1.4	0
95	In vivo imaging of specialized bone marrow endothelial microdomains for tumour engraftment. Nature, 2005, 435, 969-973.	27.8	820
96	Specialized Bone Marrow Endothelium Defines Microdomains for Tumor and Stem Cell Engraftment.. Blood, 2004, 104, 663-663.	1.4	0
97	Optical temperature probe. Applied Physics Letters, 2001, 78, 2381-2383.	3.3	5
98	Origin of retinal pigment epithelium cell damage by pulsed laser irradiance in the nanosecond to microsecond time regimen. Lasers in Surgery and Medicine, 2000, 27, 451-464.	2.1	193
99	Gastrointestinal metastasis in hepatocellular carcinoma: Radiological and endoscopic studies of 11 cases. Journal of Gastroenterology and Hepatology (Australia), 2000, 15, 536-541.	2.8	81
100	Recurrent gastrointestinal bleeding and high output cardiac failure caused by hereditary hemorrhagic telangiectasia. Zhonghua Yi Xue Za Zhi = Chinese Medical Journal; Free China Ed, 2000, 63, 339-43.	0.0	1
101	Cavitation and acoustic emission around laser-heated microparticles. Applied Physics Letters, 1998, 72, 2800-2802.	3.3	123
102	Laser-induced generation of pure tensile stresses. Applied Physics Letters, 1997, 70, 2676-2678.	3.3	1
103	High-speed photography of Er: YAG laser ablation in fluid. Implication for laser vitreous surgery. Investigative Ophthalmology and Visual Science, 1990, 31, 2546-50.	3.3	30