

Charles Lin

List of Publications by Year in descending order

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103
papers

9,465
citations

117625

34
h-index

56724

83
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105
all docs

105
docs citations

105
times ranked

14321
citing authors

#	ARTICLE	IF	CITATIONS
1	Circulating Tumor Cell Clusters Are Oligoclonal Precursors of Breast Cancer Metastasis. <i>Cell</i> , 2014, 158, 1110-1122.	28.9	1,960
2	Direct measurement of local oxygen concentration in the bone marrow of live animals. <i>Nature</i> , 2014, 508, 269-273.	27.8	933
3	In vivo imaging of specialized bone marrow endothelial microdomains for tumour engraftment. <i>Nature</i> , 2005, 435, 969-973.	27.8	820
4	Live-animal tracking of individual haematopoietic stem/progenitor cells in their niche. <i>Nature</i> , 2009, 457, 92-96.	27.8	800
5	Ex vivo glycan engineering of CD44 programs human multipotent mesenchymal stromal cell trafficking to bone. <i>Nature Medicine</i> , 2008, 14, 181-187.	30.7	573
6	Distinct bone marrow blood vessels differentially regulate haematopoiesis. <i>Nature</i> , 2016, 532, 323-328.	27.8	553
7	Neutrophil adhesion in brain capillaries reduces cortical blood flow and impairs memory function in Alzheimer's disease mouse models. <i>Nature Neuroscience</i> , 2019, 22, 413-420.	14.8	316
8	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
9	Origin of retinal pigment epithelium cell damage by pulsed laser irradiance in the nanosecond to microsecond time regimen. <i>Lasers in Surgery and Medicine</i> , 2000, 27, 451-464.	2.1	193
10	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
11	Live-animal imaging of native haematopoietic stem and progenitor cells. <i>Nature</i> , 2020, 578, 278-283.	27.8	171
12	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
13	Continuous volumetric imaging via an optical phase-locked ultrasound lens. <i>Nature Methods</i> , 2015, 12, 759-762.	19.0	168
14	Epigenetic Memory Underlies Cell-Autonomous Heterogeneous Behavior of Hematopoietic Stem Cells. <i>Cell</i> , 2016, 167, 1310-1322.e17.	28.9	153
15	In Vivo Cell Tracking With Video Rate Multimodality Laser Scanning Microscopy. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2008, 14, 10-18.	2.9	136
16	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
17	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
18	Cavitation and acoustic emission around laser-heated microparticles. <i>Applied Physics Letters</i> , 1998, 72, 2800-2802.	3.3	123

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19	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
20	Staged development of long-lived T-cell receptor $\alpha\beta$ 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
21	<i>In vivo</i> imaging of hematopoietic stem cells and their microenvironment. <i>Journal of Biophotonics</i> , 2009, 2, 619-631.	2.3	85
22	Gastrointestinal metastasis in hepatocellular carcinoma: Radiological and endoscopic studies of 11 cases. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2000, 15, 536-541.	2.8	81
23	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
24	In vivo fluorescent imaging of the mouse retina using adaptive optics. <i>Optics Letters</i> , 2007, 32, 659.	3.3	75
25	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
26	Intravital Imaging of Mesenchymal Stem Cell Trafficking and Association With Platelets and Neutrophils. <i>Stem Cells</i> , 2015, 33, 265-277.	3.2	63
27	Fiber-based tunable repetition rate source for deep tissue two-photon fluorescence microscopy. <i>Biomedical Optics Express</i> , 2018, 9, 2304.	2.9	60
28	Tracking Single Cells in Live Animals Using a Photoconvertible Near-Infrared Cell Membrane Label. <i>PLoS ONE</i> , 2013, 8, e69257.	2.5	50
29	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
30	Statins Improve the Resolution of Established Murine Venous Thrombosis: Reductions in Thrombus Burden and Vein Wall Scarring. <i>PLoS ONE</i> , 2015, 10, e0116621.	2.5	45
31	Imaging the Vascular Bone Marrow Niche During Inflammatory Stress. <i>Circulation Research</i> , 2018, 123, 415-427.	4.5	45
32	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
33	Control of osteocyte dendrite formation by Sp7 and its target gene osteocrin. <i>Nature Communications</i> , 2021, 12, 6271.	12.8	41
34	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
35	Intravital imaging of osteocytes in mouse calvaria using third harmonic generation microscopy. <i>PLoS ONE</i> , 2017, 12, e0186846.	2.5	38
36	Femtosecond laser bone ablation with a high repetition rate fiber laser source. <i>Biomedical Optics Express</i> , 2015, 6, 32.	2.9	37

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37	Bioinspired Nanoparticulate Medical Glues for Minimally Invasive Tissue Repair. <i>Advanced Healthcare Materials</i> , 2015, 4, 2587-2596.	7.6	36
38	In Vivo Imaging of Microglia Turnover in the Mouse Retina After Ionizing Radiation and Dexamethasone Treatment. , 2014, 55, 5314.		34
39	Characterization of multiphoton microscopy in the bone marrow following intravital laser osteotomy. <i>Biomedical Optics Express</i> , 2014, 5, 3578.	2.9	33
40	Imaging Molecular Expression on Vascular Endothelial Cells by In Vivo Immunofluorescence Microscopy. <i>Molecular Imaging</i> , 2006, 5, 7290.2006.00004.	1.4	31
41	High-speed photography of Er: YAG laser ablation in fluid. Implication for laser vitreous surgery. <i>Investigative Ophthalmology and Visual Science</i> , 1990, 31, 2546-50.	3.3	30
42	Multiphoton Microscopy of Live Tissues With Ultraviolet Autofluorescence. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 516-523.	2.9	25
43	Tetrandrine identified in a small molecule screen to activate mesenchymal stem cells for enhanced immunomodulation. <i>Scientific Reports</i> , 2016, 6, 30263.	3.3	24
44	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
45	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
46	An authentic imaging probe to track cell fate from beginning to end. <i>Nature Communications</i> , 2014, 5, 5216.	12.8	22
47	Remediating Desmoplasia with EGFR-Targeted Photoactivable Multi-Inhibitor Liposomes Doubles Overall Survival in Pancreatic Cancer. <i>Advanced Science</i> , 2022, 9, .	11.2	22
48	Blood Accessibility to Fibrin in Venous Thrombosis is Thrombus Age-Dependent and Predicts Fibrinolytic Efficacy: An In Vivo Fibrin Molecular Imaging Study. <i>Theranostics</i> , 2015, 5, 1317-1327.	10.0	21
49	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
50	Quantification of bone marrow interstitial pH and calcium concentration by intravital ratiometric imaging. <i>Nature Communications</i> , 2022, 13, 393.	12.8	17
51	Prx1 Expressing Cells Are Required for Periodontal Regeneration of the Mouse Incisor. <i>Frontiers in Physiology</i> , 2019, 10, 591.	2.8	16
52	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.. <i>Blood</i> , 2007, 110, 2501-2501.	1.4	16
53	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
54	Image-guided transplantation of single cells in the bone marrow of live animals. <i>Scientific Reports</i> , 2017, 7, 3875.	3.3	15

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55	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
56	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
57	In Vivo 3D Histomorphometry Quantifies Bone Apposition and Skeletal Progenitor Cell Differentiation. <i>Scientific Reports</i> , 2018, 8, 5580.	3.3	14
58	Molecular Order of Arterial Collagen Using Circular Polarization Second-Harmonic Generation Imaging. <i>Biophysical Journal</i> , 2016, 110, 530-533.	0.5	13
59	Sequential &em>In vivo Imaging of Osteogenic Stem/Progenitor Cells During Fracture Repair. <i>Journal of Visualized Experiments</i> , 2014, , .	0.3	12
60	Defining Clonal Color in Fluorescent Multi-Clonal Tracking. <i>Scientific Reports</i> , 2016, 6, 24303.	3.3	10
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	An adaptive-optics scanning laser ophthalmoscope for imaging murine retinal microstructure. <i>Proceedings of SPIE</i> , 2010, , .	0.8	8
63	Analyzing Structure and Function of Vascularization in Engineered Bone Tissue by Video-Rate Intravital Microscopy and 3D Image Processing. <i>Tissue Engineering - Part C: Methods</i> , 2015, 21, 1025-1031.	2.1	7
64	Intravital Imaging of Mouse Bone Marrow: Hemodynamics and Vascular Permeability. <i>Methods in Molecular Biology</i> , 2018, 1763, 11-22.	0.9	7
65	In vivo quantification of microglia dynamics with a scanning laser ophthalmoscope in a mouse model of focal laser injury. , 2012, , .		6
66	Intravital fluorescence microscopy with negative contrast. <i>PLoS ONE</i> , 2021, 16, e0255204.	2.5	6
67	Optical temperature probe. <i>Applied Physics Letters</i> , 2001, 78, 2381-2383.	3.3	5
68	Rapid Functional Decline of Activated and Memory Graft-versus-Hostâ€™Reactive T Cells Encountering Host Antigens in the Absence of Inflammation. <i>Journal of Immunology</i> , 2015, 195, 1282-1292.	0.8	5
69	Intravital multiphoton photoconversion with a cell membrane dye. <i>Journal of Biophotonics</i> , 2017, 10, 206-210.	2.3	4
70	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
71	Soluble Guanylate Cyclase a1â€™Deficient Mice: A Novel Murine Model for Primary Open Angle Glaucoma. <i>Annals of Neurosciences</i> , 2013, 20, 65-6.	1.7	3
72	Engineering functional microvessels in synthetic polyurethane random-pore scaffolds by harnessing perfusion flow. <i>Biomaterials</i> , 2020, 256, 120183.	11.4	3

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73	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
74	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
75	The Microanatomy of the Leukemic Stem Cell Niche in Murine Chronic Myelogenous Leukemia. Blood, 2014, 124, 351-351.	1.4	2
76	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
77	Laser-induced generation of pure tensile stresses. Applied Physics Letters, 1997, 70, 2676-2678.	3.3	1
78	In Vivo Imaging of Bone Marrow Stem Cells. , 2014, , 143-162.		1
79	Activation of creER recombinase in the mouse calvaria induces local recombination without effects on distant skeletal segments. Scientific Reports, 2021, 11, 8214.	3.3	1
80	Specific and Targetable Interactions with the Bone Marrow Microenvironment Govern Outcome in Imatinib-Resistant Chronic Myeloid Leukemia. Blood, 2018, 132, 936-936.	1.4	1
81	Epigenetic Activation of the pH Regulator MCT4 in Acute Myeloid Leukemia Exploits a Fundamental Metabolic Process of Enhancing Cell Growth through Proton Shifting. Blood, 2019, 134, 3765-3765.	1.4	1
82	Proximity-Based Single Cell Analysis of the Bone Marrow Niche Identifies Interleukin-18 As a Quiescence Regulator of Early Hematopoietic Progenitors. Blood, 2014, 124, 773-773.	1.4	1
83	Distinct Bone Marrow Blood Vessels Differentially Regulate Normal and Malignant Hematopoietic Stem and Progenitor Cells. Blood, 2015, 126, 664-664.	1.4	1
84	Role of TORC1 and TORC2 in Multiple Myeloma. Blood, 2011, 118, 1815-1815.	1.4	1
85	Thymus Regeneration Is Dependent on Distinct Mesenchymal Stromal Cell Populations. Blood, 2019, 134, 586-586.	1.4	1
86	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
87	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
88	Intravital imaging of the lacunar-canalicular network in mouse calvaria using third harmonic generation microscopy. , 2017, , .		0
89	Specialized Bone Marrow Endothelium Defines Microdomains for Tumor and Stem Cell Engraftment.. Blood, 2004, 104, 663-663.	1.4	0
90	A Novel Real-Time In Vivo Homing Model of Multiple Myeloma.. Blood, 2006, 108, 242-242.	1.4	0

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91	Regulation of the New CXCR7 Receptor in Plasma Cell Dyscrasias.. Blood, 2007, 110, 3527-3527.	1.4	0
92	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
93	Role of selectins in the pathogenesis of multiple myeloma. Journal of Clinical Oncology, 2009, 27, 11103-11103.	1.6	0
94	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
95	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
96	Role of Hypoxia in the Progression and Dissemination of Multiple Myeloma.. Blood, 2009, 114, 421-421.	1.4	0
97	Niche Induced Myelodysplasia and Secondary Hematopoietic Neoplasia Caused by Deletion of Dicer1 in Osteoprogenitor Cells.. Blood, 2009, 114, 247-247.	1.4	0
98	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
99	Leukemia Stem Cells Are Resistant to In Vivo, Cell Non-Autonomous Wnt Inhibition.. Blood, 2009, 114, 1025-1025.	1.4	0
100	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
101	Hypoxia Promotes Dissemination of Multiple Myeloma Through Acquisition of Endothelial to Mesenchymal Transition (EMT) Features. Blood, 2011, 118, 471-471.	1.4	0
102	Real-Time RT-PCR Analysis of Individual Osteolineage Cells within the Hematopoietic Stem Cell Niche. Blood, 2011, 118, 2389-2389.	1.4	0
103	Abstract A41: Shaping Myc-dependent transcriptional amplification. , 2015, , .		0