

Bing Liu

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

6,438
citations

126708

33
h-index

71532

76
g-index

110
all docs

110
docs citations

110
times ranked

9181
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Human mesenchymal stem cells inhibit differentiation and function of monocyte-derived dendritic cells. <i>Blood</i> , 2005, 105, 4120-4126. | 0.6 | 1,205 |
| 2 | Concise Review: Isolation and Characterization of Cells from Human Term Placenta: Outcome of the First International Workshop on Placenta Derived Stem Cells. <i>Stem Cells</i> , 2008, 26, 300-311. | 1.4 | 921 |
| 3 | Tracing haematopoietic stem cell formation at single-cell resolution. <i>Nature</i> , 2016, 533, 487-492. | 13.7 | 297 |
| 4 | Deciphering human macrophage development at single-cell resolution. <i>Nature</i> , 2020, 582, 571-576. | 13.7 | 279 |
| 5 | Isolation of Mouse Marrow Mesenchymal Progenitors by a Novel and Reliable Method. <i>Stem Cells</i> , 2003, 21, 527-535. | 1.4 | 247 |
| 6 | Meningeal lymphatic vessels regulate brain tumor drainage and immunity. <i>Cell Research</i> , 2020, 30, 229-243. | 5.7 | 209 |
| 7 | Human placenta-derived mesenchymal progenitor cells support culture expansion of long-term culture-initiating cells from cord blood CD34+ cells. <i>Experimental Hematology</i> , 2004, 32, 657-664. | 0.2 | 198 |
| 8 | Mouse Embryonic Head as a Site for Hematopoietic Stem Cell Development. <i>Cell Stem Cell</i> , 2012, 11, 663-675. | 5.2 | 164 |
| 9 | Dissecting transcriptional heterogeneity in primary gastric adenocarcinoma by single cell RNA sequencing. <i>Gut</i> , 2021, 70, 464-475. | 6.1 | 155 |
| 10 | Combinatorial Single-Cell Analyses of Granulocyte-Monocyte Progenitor Heterogeneity Reveals an Early Uni-potent Neutrophil Progenitor. <i>Immunity</i> , 2020, 53, 303-318.e5. | 6.6 | 153 |
| 11 | Tracing the first hematopoietic stem cell generation in human embryo by single-cell RNA sequencing. <i>Cell Research</i> , 2019, 29, 881-894. | 5.7 | 136 |
| 12 | Toward Cell Therapy Using Placenta-Derived Cells: Disease Mechanisms, Cell Biology, Preclinical Studies, and Regulatory Aspects at the Round Table. <i>Stem Cells and Development</i> , 2010, 19, 143-154. | 1.1 | 127 |
| 13 | Essential Role of Endothelial Smad4 in Vascular Remodeling and Integrity. <i>Molecular and Cellular Biology</i> , 2007, 27, 7683-7692. | 1.1 | 109 |
| 14 | Phenotypic and functional characterization of first-trimester human placental macrophages, Hofbauer cells. <i>Journal of Experimental Medicine</i> , 2021, 218, . | 4.2 | 98 |
| 15 | Single-Cell RNA Sequencing Resolves Spatiotemporal Development of Pre-thymic Lymphoid Progenitors and Thymus Organogenesis in Human Embryos. <i>Immunity</i> , 2019, 51, 930-948.e6. | 6.6 | 97 |
| 16 | Combined Single-Cell Profiling of lncRNAs and Functional Screening Reveals that H19 Is Pivotal for Embryonic Hematopoietic Stem Cell Development. <i>Cell Stem Cell</i> , 2019, 24, 285-298.e5. | 5.2 | 96 |
| 17 | Identification of mesenchymal stem cells in aorta-gonad-mesonephros and yolk sac of human embryos. <i>Blood</i> , 2008, 111, 2436-2443. | 0.6 | 91 |
| 18 | G protein-coupled receptor 183 facilitates endothelial-to-hematopoietic transition via Notch1 inhibition. <i>Cell Research</i> , 2015, 25, 1093-1107. | 5.7 | 90 |

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|----|---|-----|-----------|
| 19 | Embryonic endothelial evolution towards first hematopoietic stem cells revealed by single-cell transcriptomic and functional analyses. <i>Cell Research</i> , 2020, 30, 376-392. | 5.7 | 89 |
| 20 | miR-142-3p regulates the formation and differentiation of hematopoietic stem cells in vertebrates. <i>Cell Research</i> , 2013, 23, 1356-1368. | 5.7 | 80 |
| 21 | Decoding Human Megakaryocyte Development. <i>Cell Stem Cell</i> , 2021, 28, 535-549.e8. | 5.2 | 79 |
| 22 | Chimeric antigen receptor T (CAR-T) cells expanded with IL-7/IL-15 mediate superior antitumor effects. <i>Protein and Cell</i> , 2019, 10, 764-769. | 4.8 | 73 |
| 23 | Disruption of Smad5 gene leads to enhanced proliferation of high-proliferative potential precursors during embryonic hematopoiesis. <i>Blood</i> , 2003, 101, 124-133. | 0.6 | 68 |
| 24 | Differentiation of transplanted haematopoietic stem cells tracked by single-cell transcriptomic analysis. <i>Nature Cell Biology</i> , 2020, 22, 630-639. | 4.6 | 65 |
| 25 | Spatially defined single-cell transcriptional profiling characterizes diverse chondrocyte subtypes and nucleus pulposus progenitors in human intervertebral discs. <i>Bone Research</i> , 2021, 9, 37. | 5.4 | 65 |
| 26 | Characterization of OP9 as authentic mesenchymal stem cell line. <i>Journal of Genetics and Genomics</i> , 2010, 37, 475-482. | 1.7 | 59 |
| 27 | ATF4 plays a pivotal role in the development of functional hematopoietic stem cells in mouse fetal liver. <i>Blood</i> , 2015, 126, 2383-2391. | 0.6 | 58 |
| 28 | Mitochondria-Targeting Polymer Micelle of Dichloroacetate Induced Pyroptosis to Enhance Osteosarcoma Immunotherapy. <i>ACS Nano</i> , 2022, 16, 10327-10340. | 7.3 | 51 |
| 29 | Dissecting human embryonic skeletal stem cell ontogeny by single-cell transcriptomic and functional analyses. <i>Cell Research</i> , 2021, 31, 742-757. | 5.7 | 49 |
| 30 | A Modified Haploidentical Nonmyeloablative Transplantation without T Cell Depletion for High-Risk Acute Leukemia: Successful Engraftment and Mild GVHD. <i>Biology of Blood and Marrow Transplantation</i> , 2009, 15, 930-937. | 2.0 | 48 |
| 31 | Sustained release of GDF5 from a designed coacervate attenuates disc degeneration in a rat model. <i>Acta Biomaterialia</i> , 2019, 86, 300-311. | 4.1 | 42 |
| 32 | Guiding T lymphopoiesis from pluripotent stem cells by defined transcription factors. <i>Cell Research</i> , 2020, 30, 21-33. | 5.7 | 39 |
| 33 | Transcription factor Hoxb5 reprograms B cells into functional T lymphocytes. <i>Nature Immunology</i> , 2018, 19, 279-290. | 7.0 | 38 |
| 34 | Robot-assisted laparoscopic versus open ureteral reimplantation for pediatric vesicoureteral reflux: a systematic review and meta-analysis. <i>World Journal of Urology</i> , 2018, 36, 819-828. | 1.2 | 36 |
| 35 | Effect of autologous hematopoietic stem cell transplantation on multiple sclerosis and neuromyelitis optica spectrum disorder: a PRISMA-compliant meta-analysis. <i>Bone Marrow Transplantation</i> , 2020, 55, 1928-1934. | 1.3 | 30 |
| 36 | Heterogeneity in endothelial cells and widespread venous arterialization during early vascular development in mammals. <i>Cell Research</i> , 2022, 32, 333-348. | 5.7 | 30 |

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|----|---|------|-----------|
| 37 | Single-cell transcriptomic analysis identifies an immune-prone population in erythroid precursors during human ontogenesis. <i>Nature Immunology</i> , 2022, 23, 1109-1120. | 7.0 | 30 |
| 38 | Oxidative stress-induced RAC autophagy can improve the HUVEC functions by releasing exosomes. <i>Journal of Cellular Physiology</i> , 2020, 235, 7392-7409. | 2.0 | 29 |
| 39 | Phosphorylation-Mediated IFN- γ R2 Membrane Translocation Is Required to Activate Macrophage Innate Response. <i>Cell</i> , 2018, 175, 1336-1351.e17. | 13.5 | 28 |
| 40 | Fracture behaviors of maxillary central incisors with flared root canals restored with CAD/CAM integrated glass fiber post-and-core. <i>Dental Materials Journal</i> , 2019, 38, 114-119. | 0.8 | 26 |
| 41 | Delineating spatiotemporal and hierarchical development of human fetal innate lymphoid cells. <i>Cell Research</i> , 2021, 31, 1106-1122. | 5.7 | 25 |
| 42 | T Cell Development: Old Tales Retold By Single-Cell RNA Sequencing. <i>Trends in Immunology</i> , 2021, 42, 165-175. | 2.9 | 24 |
| 43 | Single-Cell RNA-Seq of T Cells in B-ALL Patients Reveals an Exhausted Subset with Remarkable Heterogeneity. <i>Advanced Science</i> , 2021, 8, e2101447. | 5.6 | 24 |
| 44 | Human mesenchymal and murine stromal cells support human lympho-myeloid progenitor expansion but not maintenance of multipotent haematopoietic stem and progenitor cells. <i>Cell Cycle</i> , 2016, 15, 540-545. | 1.3 | 23 |
| 45 | Post-traumatic right carotid-cavernous fistula resulting in symptoms in the contralateral eye: a case report and literature review. <i>BMC Ophthalmology</i> , 2018, 18, 183. | 0.6 | 23 |
| 46 | Association between Parkinson's Disease and Risk of Cancer: A PRISMA-compliant Meta-analysis. <i>ACS Chemical Neuroscience</i> , 2019, 10, 4430-4439. | 1.7 | 23 |
| 47 | Systematic review and cumulative analysis of the managements for proximal impacted ureteral stones. <i>World Journal of Urology</i> , 2019, 37, 1687-1701. | 1.2 | 23 |
| 48 | Increased Expression of Tissue/Salivary Transgelin mRNA Predicts Poor Prognosis in Patients with Oral Squamous Cell Carcinoma (OSCC). <i>Medical Science Monitor</i> , 2015, 21, 2275-2281. | 0.5 | 22 |
| 49 | Generation and Analysis of GATA2 w/eGFP Human ESCs Reveal ITGB3/CD61 as a Reliable Marker for Defining Hemogenic Endothelial Cells during Hematopoiesis. <i>Stem Cell Reports</i> , 2016, 7, 854-868. | 2.3 | 22 |
| 50 | Endothelial Smad4 restrains the transition to hematopoietic progenitors via suppression of ERK activation. <i>Blood</i> , 2014, 123, 2161-2171. | 0.6 | 21 |
| 51 | Single-cell RNA sequencing highlights transcription activity of autophagy-related genes during hematopoietic stem cell formation in mouse embryos. <i>Autophagy</i> , 2017, 13, 770-771. | 4.3 | 21 |
| 52 | Characterization and generation of human definitive multipotent hematopoietic stem/progenitor cells. <i>Cell Discovery</i> , 2020, 6, 89. | 3.1 | 21 |
| 53 | Antibiotic prophylaxis in ureteroscopic lithotripsy: a systematic review and meta-analysis of comparative studies. <i>BJU International</i> , 2018, 122, 29-39. | 1.3 | 18 |
| 54 | Ophiopogonin D improves osteointegration of titanium alloy implants under diabetic conditions by inhibition of ROS overproduction via Wnt/ β -catenin signaling pathway. <i>Biochimie</i> , 2018, 152, 31-42. | 1.3 | 18 |

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|----|---|-----|-----------|
| 55 | Identification of High Proliferative Potential Precursors with Hemangioblastic Activity in the Mouse Aorta-Gonad- Mesonephros Region. <i>Stem Cells</i> , 2007, 25, 1423-1430. | 1.4 | 17 |
| 56 | Single-cell transcriptome analysis reveals the dynamics of human immune cells during early fetal skin development. <i>Cell Reports</i> , 2021, 36, 109524. | 2.9 | 16 |
| 57 | Interleukin-3 promotes hemangioblast development in mouse aorta-gonad-mesonephros region. <i>Haematologica</i> , 2010, 95, 875-883. | 1.7 | 15 |
| 58 | The Association Between Phosphodiesterase Type 5 Inhibitor Use and Risk of Non-Arteritic Anterior Ischemic Optic Neuropathy: A Systematic Review and Meta-Analysis. <i>Sexual Medicine</i> , 2018, 6, 185-192. | 0.9 | 15 |
| 59 | Differentiation among Glioblastomas, Primary Cerebral Lymphomas, and Solitary Brain Metastases Using Diffusion-Weighted Imaging and Diffusion Tensor Imaging: A PRISMA-Compliant Meta-analysis. <i>ACS Chemical Neuroscience</i> , 2020, 11, 477-483. | 1.7 | 15 |
| 60 | Smad5: signaling roles in hematopoiesis and osteogenesis. <i>International Journal of Biochemistry and Cell Biology</i> , 2004, 36, 766-770. | 1.2 | 14 |
| 61 | Clonal analysis reveals remarkable functional heterogeneity during hematopoietic stem cell emergence. <i>Cell Research</i> , 2017, 27, 1065-1068. | 5.7 | 13 |
| 62 | Systematic Review and Cumulative Analysis of the Combination of Mitomycin C plus Bacillus Calmette-Guérin (BCG) for Non-Muscle-Invasive Bladder Cancer. <i>Scientific Reports</i> , 2017, 7, 3172. | 1.6 | 13 |
| 63 | Transcriptomic landscape of circulating mononuclear phagocytes in Langerhans cell histiocytosis at the single-cell level. <i>Blood</i> , 2021, 138, 1237-1248. | 0.6 | 13 |
| 64 | Improving the Surgical Effect for Primary Liver Cancer with Intraoperative Fluorescence Navigation Compared with Intraoperative Ultrasound. <i>Medical Science Monitor</i> , 2019, 25, 3406-3416. | 0.5 | 12 |
| 65 | Single-cell architecture and functional requirement of alternative splicing during hematopoietic stem cell formation. <i>Science Advances</i> , 2022, 8, eabg5369. | 4.7 | 12 |
| 66 | Mesenchymal stem cell-like cells in classic renal angiomyolipoma. <i>Oncology Letters</i> , 2012, 4, 398-402. | 0.8 | 11 |
| 67 | Arsenic trioxide-based therapy in relapsed/refractory multiple myeloma patients: a meta-analysis and systematic review. <i>OncoTargets and Therapy</i> , 2014, 7, 1593. | 1.0 | 11 |
| 68 | Unc-5 homolog B (UNC5B) is one of the key downstream targets of N ¹ -Acetyltransferase 10 (Naa10). <i>Scientific Reports</i> , 2016, 6, 38508. | 1.6 | 11 |
| 69 | Pre-configuring chromatin architecture with histone modifications guides hematopoietic stem cell formation in mouse embryos. <i>Nature Communications</i> , 2022, 13, 346. | 5.8 | 11 |
| 70 | Generation of Hematopoietic Stem Cells from Purified Embryonic Endothelial Cells by a Simple and Efficient Strategy. <i>Journal of Genetics and Genomics</i> , 2013, 40, 557-563. | 1.7 | 10 |
| 71 | Cortical Microvascularization in Moyamoya Disease: Characteristics and the Relations with Surgical Outcomes of Encephaloduroarteriosynangiosis. <i>CNS Neuroscience and Therapeutics</i> , 2016, 22, 325-327. | 1.9 | 8 |
| 72 | Association of VEGF and VDR gene- gene and gene- smoking interaction on risk of multiple myeloma in Chinese Han population. <i>Oncotarget</i> , 2017, 8, 36509-36516. | 0.8 | 8 |

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|----|---|-----|-----------|
| 73 | Adult-repopulating lymphoid potential of yolk sac blood vessels is not confined to arterial endothelial cells. <i>Science China Life Sciences</i> , 2021, 64, 2073-2087. | 2.3 | 7 |
| 74 | Long Noncoding RNA: Function and Mechanism on Differentiation of Mesenchymal Stem Cells and Embryonic Stem Cells. <i>Current Stem Cell Research and Therapy</i> , 2019, 14, 259-267. | 0.6 | 7 |
| 75 | Fibroblastic Potential of CD41 ⁺ Cells in the Mouse Aorta-Gonad-Mesonephros Region and Yolk Sac. <i>Stem Cells and Development</i> , 2012, 21, 2592-2605. | 1.1 | 6 |
| 76 | Overexpression of miR-21 is involved in acute monocytic leukemia-associated angiogenesis by targeting IL-12. <i>Molecular Medicine Reports</i> , 2018, 18, 4122-4128. | 1.1 | 6 |
| 77 | Embryonic lineage tracing with Procr-CreER marks balanced hematopoietic stem cell fate during entire mouse lifespan. <i>Journal of Genetics and Genomics</i> , 2019, 46, 489-498. | 1.7 | 6 |
| 78 | Spatiotemporal and Functional Heterogeneity of Hematopoietic Stem Cell-Competent Hemogenic Endothelial Cells in Mouse Embryos. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 699263. | 1.8 | 6 |
| 79 | The comprehensive DNA methylation landscape of hematopoietic stem cell development. <i>Cell Discovery</i> , 2021, 7, 86. | 3.1 | 6 |
| 80 | Hlf Expression Marks Early Emergence of Hematopoietic Stem Cell Precursors With Adult Repopulating Potential and Fate. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 728057. | 1.8 | 6 |
| 81 | Cell Differentiation Trajectory-Associated Molecular Classification of Osteosarcoma. <i>Genes</i> , 2021, 12, 1685. | 1.0 | 6 |
| 82 | Bibliometric Analysis of T Cells as Immune Regulators in Cancer Prognosis. <i>Frontiers in Immunology</i> , 2022, 13, 874640. | 2.2 | 6 |
| 83 | Migration of dorsal aorta mesenchymal stem cells induced by mouse embryonic circulation. <i>Developmental Dynamics</i> , 2011, 240, 65-74. | 0.8 | 5 |
| 84 | A role for macrophages in hematopoiesis in the embryonic head. <i>Blood</i> , 2019, 134, 1929-1940. | 0.6 | 5 |
| 85 | Induced Membrane Technique for the Treatment of Infected Forearm Nonunion: A Retrospective Study. <i>Journal of Hand Surgery</i> , 2022, 47, 583.e1-583.e9. | 0.7 | 5 |
| 86 | Decoding lymphomyeloid divergence and immune hyporesponsiveness in G-CSF-primed human bone marrow by single-cell RNA-seq. <i>Cell Discovery</i> , 2022, 8, . | 3.1 | 5 |
| 87 | Statin use and the risk of multiple myeloma: a PRISMA-compliant meta-analysis. <i>Annals of Hematology</i> , 2020, 99, 1805-1812. | 0.8 | 4 |
| 88 | Integrative transcriptomic analysis of developing hematopoietic stem cells in human and mouse at single-cell resolution. <i>Biochemical and Biophysical Research Communications</i> , 2021, 558, 161-167. | 1.0 | 4 |
| 89 | Investigation of the molecular mechanisms underlying myotonic dystrophy types 1 and 2 cataracts using microRNA-target gene networks. <i>Molecular Medicine Reports</i> , 2017, 16, 3737-3744. | 1.1 | 4 |
| 90 | Genetic polymorphisms and multiple myeloma risk: a meta-analysis. <i>Annals of Hematology</i> , 2020, 99, 1017-1024. | 0.8 | 3 |

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|----|--|-----|-----------|
| 91 | Treatment for transverse patella fractures with minimally invasive techniques (Review). <i>Experimental and Therapeutic Medicine</i> , 2022, 23, 192. | 0.8 | 3 |
| 92 | When blood development meets single-cell transcriptomics. <i>Blood Science</i> , 2019, 1, 65-68. | 0.4 | 2 |
| 93 | Crosslink: An R Package for Network Visualization of Grouped Nodes. <i>Frontiers in Genetics</i> , 2021, 12, 706854. | 1.1 | 2 |
| 94 | Using LaserSight Astrapro Planner 2.2 Z software in corneal topography-guided laser in situ keratomileusis for myopia with asymmetric corneal shape. <i>International Journal of Ophthalmology</i> , 2014, 7, 452-6. | 0.5 | 2 |
| 95 | Restored CD8+PD-1+ T Cells Facilitate the Response to Anti-PD-1 for Patients With Pancreatic Ductal Adenocarcinoma. <i>Frontiers in Oncology</i> , 2022, 12, 837560. | 1.3 | 2 |
| 96 | Characterization of hemangioblast in umbilical arteries of mid-gestation mouse embryos. <i>International Journal of Hematology</i> , 2012, 95, 632-639. | 0.7 | 1 |
| 97 | Single-cell transcriptomic profiling of non-hematopoietic circulating cells in mid-gestational mouse embryos. <i>Journal of Genetics and Genomics</i> , 2021, 48, 508-511. | 1.7 | 0 |
| 98 | Influence of IL-1 beta and TNF-alpha on Fas expression of human retinal pigment epithelial cells in vitro. <i>Yan Ke Xue Bao = Eye Science</i> , 2004, 20, 39-41. | 0.1 | 0 |