

Yu Lan

List of Publications by Year in descending order

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72
papers

3,054
citations

236925

25
h-index

182427

51
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84
all docs

84
docs citations

84
times ranked

4505
citing authors

#	ARTICLE	IF	CITATIONS
1	Tracing haematopoietic stem cell formation at single-cell resolution. <i>Nature</i> , 2016, 533, 487-492.	27.8	297
2	Deciphering human macrophage development at single-cell resolution. <i>Nature</i> , 2020, 582, 571-576.	27.8	279
3	Endothelial Smad4 Maintains Cerebrovascular Integrity by Activating N-Cadherin through Cooperation with Notch. <i>Developmental Cell</i> , 2011, 20, 291-302.	7.0	209
4	Mouse Embryonic Head as a Site for Hematopoietic Stem Cell Development. <i>Cell Stem Cell</i> , 2012, 11, 663-675.	11.1	164
5	Osteogenic fate of hypertrophic chondrocytes. <i>Cell Research</i> , 2014, 24, 1266-1269.	12.0	151
6	Tracing the first hematopoietic stem cell generation in human embryo by single-cell RNA sequencing. <i>Cell Research</i> , 2019, 29, 881-894.	12.0	136
7	Essential Role of Endothelial Smad4 in Vascular Remodeling and Integrity. <i>Molecular and Cellular Biology</i> , 2007, 27, 7683-7692.	2.3	109
8	Smad4 is required for maintaining normal murine postnatal bone homeostasis. <i>Journal of Cell Science</i> , 2007, 120, 2162-2170.	2.0	98
9	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.	14.3	97
10	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.	11.1	96
11	Identification of mesenchymal stem cells in aorta-gonad-mesonephros and yolk sac of human embryos. <i>Blood</i> , 2008, 111, 2436-2443.	1.4	91
12	Embryonic endothelial evolution towards first hematopoietic stem cells revealed by single-cell transcriptomic and functional analyses. <i>Cell Research</i> , 2020, 30, 376-392.	12.0	89
13	Brain Endothelial Cells Maintain Lactate Homeostasis and Control Adult Hippocampal Neurogenesis. <i>Cell Stem Cell</i> , 2019, 25, 754-767.e9.	11.1	79
14	Decoding Human Megakaryocyte Development. <i>Cell Stem Cell</i> , 2021, 28, 535-549.e8.	11.1	79
15	Smad4 Deficiency in Smooth Muscle Cells Initiates the Formation of Aortic Aneurysm. <i>Circulation Research</i> , 2016, 118, 388-399.	4.5	75
16	Proteomic analysis of ubiquitin-proteasome effects: insight into the function of eukaryotic initiation factor 5A. <i>Oncogene</i> , 2003, 22, 4819-4830.	5.9	69
17	Disruption of Smad5 gene leads to enhanced proliferation of high-proliferative potential precursors during embryonic hematopoiesis. <i>Blood</i> , 2003, 101, 124-133.	1.4	68
18	Differentiation of transplanted haematopoietic stem cells tracked by single-cell transcriptomic analysis. <i>Nature Cell Biology</i> , 2020, 22, 630-639.	10.3	65

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19	Essential role of Smad4 in maintaining cardiomyocyte proliferation during murine embryonic heart development. <i>Developmental Biology</i> , 2007, 311, 136-146.	2.0	61
20	Transforming Growth Factor β -regulated MicroRNA-29a Promotes Angiogenesis through Targeting the Phosphatase and Tensin Homolog in Endothelium. <i>Journal of Biological Chemistry</i> , 2013, 288, 10418-10426.	3.4	60
21	Dissecting human embryonic skeletal stem cell ontogeny by single-cell transcriptomic and functional analyses. <i>Cell Research</i> , 2021, 31, 742-757.	12.0	49
22	Guiding T lymphopoiesis from pluripotent stem cells by defined transcription factors. <i>Cell Research</i> , 2020, 30, 21-33.	12.0	39
23	Quality of Life in Papillary Thyroid Microcarcinoma Patients Undergoing Radiofrequency Ablation or Surgery: A Comparative Study. <i>Frontiers in Endocrinology</i> , 2020, 11, 249.	3.5	34
24	Heterogeneity in endothelial cells and widespread venous arterialization during early vascular development in mammals. <i>Cell Research</i> , 2022, 32, 333-348.	12.0	30
25	Single-cell transcriptomic analysis identifies an immune-prone population in erythroid precursors during human ontogenesis. <i>Nature Immunology</i> , 2022, 23, 1109-1120.	14.5	30
26	Design, synthesis and biological evaluation of novel O-carbamoyl ferulamide derivatives as multi-target-directed ligands for the treatment of Alzheimer's disease. <i>European Journal of Medicinal Chemistry</i> , 2020, 194, 112265.	5.5	28
27	Ultrasonography-guided radiofrequency ablation vs. surgery for the treatment of solitary T1bN0M0 papillary thyroid carcinoma: A comparative study. <i>Clinical Endocrinology</i> , 2021, 94, 684-691.	2.4	27
28	Efficacy and safety of ultrasonography-guided radiofrequency ablation for the treatment of T1bN0M0 papillary thyroid carcinoma: a retrospective study. <i>International Journal of Hyperthermia</i> , 2020, 37, 392-398.	2.5	26
29	Delineating spatiotemporal and hierarchical development of human fetal innate lymphoid cells. <i>Cell Research</i> , 2021, 31, 1106-1122.	12.0	25
30	T Cell Development: Old Tales Retold By Single-Cell RNA Sequencing. <i>Trends in Immunology</i> , 2021, 42, 165-175.	6.8	24
31	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.	11.2	24
32	Endothelial Smad4 restrains the transition to hematopoietic progenitors via suppression of ERK activation. <i>Blood</i> , 2014, 123, 2161-2171.	1.4	21
33	Long-Term Exposure to Benzo[a]Pyrene Affects Sexual Differentiation and Embryos Toxicity in Three Generations of Marine Medaka (<i>Oryzias Melastigma</i>). <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 970.	2.6	18
34	Identification of High Proliferative Potential Precursors with Hemangioblastic Activity in the Mouse Aorta-Gonad- Mesonephros Region. <i>Stem Cells</i> , 2007, 25, 1423-1430.	3.2	17
35	The quality of life in papillary thyroid microcarcinoma patients undergoing lobectomy or total thyroidectomy: A cross-sectional study. <i>Cancer Medicine</i> , 2021, 10, 1989-2002.	2.8	16
36	Interleukin-3 promotes hemangioblast development in mouse aorta-gonad-mesonephros region. <i>Haematologica</i> , 2010, 95, 875-883.	3.5	15

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37	Novel radioligands for imaging sigma-1 receptor in brain using positron emission tomography (PET). <i>Acta Pharmaceutica Sinica B</i> , 2019, 9, 1204-1215.	12.0	15
38	Positron emission tomography probes targeting bromodomain and extra-terminal (BET) domains to enable <i>in vivo</i> neuroepigenetic imaging. <i>Chemical Communications</i> , 2019, 55, 12932-12935.	4.1	15
39	Synthesis of Mitochondria-Anchored Nitroimidazoles with a Versatile NIR Fluorophore for Hypoxic Tumor-Targeting Imaging and Chemoradiotherapy. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 3381-3391.	6.4	15
40	Design, Synthesis, and Evaluation of Thienodiazepine Derivatives as Positron Emission Tomography Imaging Probes for Bromodomain and Extra-Terminal Domain Family Proteins. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 14745-14756.	6.4	15
41	Discovery of carbon-11 labeled sulfonamide derivative: A PET tracer for imaging brain NLRP3 inflammasome. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021, 34, 127777.	2.2	14
42	Clonal analysis reveals remarkable functional heterogeneity during hematopoietic stem cell emergence. <i>Cell Research</i> , 2017, 27, 1065-1068.	12.0	13
43	Transcriptomic landscape of circulating mononuclear phagocytes in Langerhans cell histiocytosis at the single-cell level. <i>Blood</i> , 2021, 138, 1237-1248.	1.4	13
44	Single-cell architecture and functional requirement of alternative splicing during hematopoietic stem cell formation. <i>Science Advances</i> , 2022, 8, eabg5369.	10.3	12
45	Pre-configuring chromatin architecture with histone modifications guides hematopoietic stem cell formation in mouse embryos. <i>Nature Communications</i> , 2022, 13, 346.	12.8	11
46	Radiosynthesis and <i>in vivo</i> evaluation of a new positron emission tomography radiotracer targeting bromodomain and extra-terminal domain (BET) family proteins. <i>Nuclear Medicine and Biology</i> , 2020, 84-85, 96-101.	0.6	9
47	Factors associated with health-related quality of life in papillary thyroid microcarcinoma patients undergoing radiofrequency ablation: a cross-sectional prevalence study. <i>International Journal of Hyperthermia</i> , 2020, 37, 1174-1181.	2.5	8
48	Efficacy and safety of ultrasound-guided radiofrequency ablation for low-risk papillary thyroid microcarcinoma in patients aged 55 years or older: a retrospective study. <i>International Journal of Hyperthermia</i> , 2021, 38, 604-610.	2.5	8
49	Visualization of Receptor-Interacting Protein Kinase 1 (RIPK1) by Brain Imaging with Positron Emission Tomography. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 15420-15428.	6.4	8
50	The role of Smad signaling in vascular and hematopoietic development revealed by studies using genetic mouse models. <i>Science China Life Sciences</i> , 2010, 53, 485-489.	4.9	7
51	Hepatocyte growth factor-regulated tyrosine kinase substrate is essential for endothelial cell polarity and cerebrovascular stability. <i>Cardiovascular Research</i> , 2021, 117, 533-546.	3.8	7
52	Discovery of a Positron Emission Tomography Radiotracer Selectively Targeting the BD1 Bromodomains of BET Proteins. <i>ACS Medicinal Chemistry Letters</i> , 2021, 12, 282-287.	2.8	7
53	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.	4.9	7
54	Correlation and agreement between superb micro-vascular imaging and contrast-enhanced ultrasound for assessing radiofrequency ablation treatment of thyroid nodules: a preliminary study. <i>BMC Medical Imaging</i> , 2021, 21, 175.	2.7	7

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55	Smooth Muscle Hgs Deficiency Leads to Impaired Esophageal Motility. International Journal of Biological Sciences, 2015, 11, 794-802.	6.4	6
56	Embryonic lineage tracing with Procr-CreER marks balanced hematopoietic stem cell fate during entire mouse lifespan. Journal of Genetics and Genomics, 2019, 46, 489-498.	3.9	6
57	Spatiotemporal and Functional Heterogeneity of Hematopoietic Stem Cell-Competent Hemogenic Endothelial Cells in Mouse Embryos. Frontiers in Cell and Developmental Biology, 2021, 9, 699263.	3.7	6
58	The comprehensive DNA methylation landscape of hematopoietic stem cell development. Cell Discovery, 2021, 7, 86.	6.7	6
59	Hlf Expression Marks Early Emergence of Hematopoietic Stem Cell Precursors With Adult Repopulating Potential and Fate. Frontiers in Cell and Developmental Biology, 2021, 9, 728057.	3.7	6
60	Migration of dorsal aorta mesenchymal stem cells induced by mouse embryonic circulation. Developmental Dynamics, 2011, 240, 65-74.	1.8	5
61	Megakaryocytic Smad4 Regulates Platelet Function through Syk and ROCK2 Expression. Molecular Pharmacology, 2017, 92, 285-296.	2.3	5
62	Decoding lymphomyeloid divergence and immune hyporesponsiveness in G-CSF-primed human bone marrow by single-cell RNA-seq. Cell Discovery, 2022, 8, .	6.7	5
63	Procr+ stem cells: from vessel to blood. National Science Review, 2017, 4, 523-524.	9.5	4
64	Integrative transcriptomic analysis of developing hematopoietic stem cells in human and mouse at single-cell resolution. Biochemical and Biophysical Research Communications, 2021, 558, 161-167.	2.1	4
65	Development of a Novel Positron Emission Tomography (PET) Radiotracer Targeting Bromodomain and Extra-Terminal Domain (BET) Family Proteins. Frontiers in Molecular Biosciences, 2020, 7, 198.	3.5	4
66	When blood development meets single-cell transcriptomics. Blood Science, 2019, 1, 65-68.	0.9	2
67	Deciphering the continuum of hemogenic endothelium differentiation. Blood, 2022, 139, 308-310.	1.4	2
68	Co-Expression of Runx1, Hoxa9, Hlf, and Hoxa7 Confers Multi-Lineage Potential on Hematopoietic Progenitors Derived From Pluripotent Stem Cells. Frontiers in Cell and Developmental Biology, 2022, 10, 859769.	3.7	2
69	Value of Conventional Ultrasonography with Contrast-Enhanced Ultrasonography in the Differential Diagnosis of Partial Cystic Thyroid Nodules. Ultrasound in Medicine and Biology, 2021, 47, 2494-2501.	1.5	1
70	Effects of inhibition of ubiquitin-proteasome pathway on human primary leukemic cells. Science in China Series C: Life Sciences, 2002, 45, 647-655.	1.3	0
71	Radiosynthesis of [11C]E11 for imaging EZH2 using positron emission tomography. Medicinal Chemistry Research, 2020, 29, 2106-2111.	2.4	0
72	Single-cell transcriptomic profiling of non-hematopoietic circulating cells in mid-gestational mouse embryos. Journal of Genetics and Genomics, 2021, 48, 508-511.	3.9	0