

# Li-Ying Yan

## List of Publications by Year in descending order

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Version: 2024-02-01

88  
papers

8,131  
citations

117625

34  
h-index

56724

83  
g-index

96  
all docs

96  
docs citations

96  
times ranked

12117  
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-cell RNA-Seq profiling of human preimplantation embryos and embryonic stem cells. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 1131-1139.	8.2	1,416
2	The DNA methylation landscape of human early embryos. <i>Nature</i> , 2014, 511, 606-610.	27.8	787
3	A single-cell RNA-seq survey of the developmental landscape of the human prefrontal cortex. <i>Nature</i> , 2018, 555, 524-528.	27.8	551
4	The Transcriptome and DNA Methylome Landscapes of Human Primordial Germ Cells. <i>Cell</i> , 2015, 161, 1437-1452.	28.9	500
5	Single-Cell RNA-Seq Analysis Maps Development of Human Germline Cells and Gonadal Niche Interactions. <i>Cell Stem Cell</i> , 2017, 20, 858-873.e4.	11.1	376
6	Single-Cell Transcriptome Analysis Maps the Developmental Track of the Human Heart. <i>Cell Reports</i> , 2019, 26, 1934-1950.e5.	6.4	355
7	Single-Cell RNA Sequencing Analysis Reveals Sequential Cell Fate Transition during Human Spermatogenesis. <i>Cell Stem Cell</i> , 2018, 23, 599-614.e4.	11.1	309
8	Genome Analyses of Single Human Oocytes. <i>Cell</i> , 2013, 155, 1492-1506.	28.9	279
9	Transcriptome Landscape of Human Folliculogenesis Reveals Oocyte and Granulosa Cell Interactions. <i>Molecular Cell</i> , 2018, 72, 1021-1034.e4.	9.7	262
10	Single-cell multiomics sequencing and analyses of human colorectal cancer. <i>Science</i> , 2018, 362, 1060-1063.	12.6	256
11	Single-cell DNA methylome sequencing of human preimplantation embryos. <i>Nature Genetics</i> , 2018, 50, 12-19.	21.4	248
12	Reconstituting the transcriptome and DNA methylome landscapes of human implantation. <i>Nature</i> , 2019, 572, 660-664.	27.8	207
13	Spatial transcriptomic survey of human embryonic cerebral cortex by single-cell RNA-seq analysis. <i>Cell Research</i> , 2018, 28, 730-745.	12.0	179
14	Single-cell multi-omics sequencing of human early embryos. <i>Nature Cell Biology</i> , 2018, 20, 847-858.	10.3	142
15	Tracing the expression of circular RNAs in human pre-implantation embryos. <i>Genome Biology</i> , 2016, 17, 130.	8.8	140
16	Tracing the temporal-spatial transcriptome landscapes of the human fetal digestive tract using single-cell RNA-sequencing. <i>Nature Cell Biology</i> , 2018, 20, 721-734.	10.3	125
17	Live births after simultaneous avoidance of monogenic diseases and chromosome abnormality by next-generation sequencing with linkage analyses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15964-15969.	7.1	115
18	Oocyte-expressed yes-associated protein is a key activator of the early zygotic genome in mouse. <i>Cell Research</i> , 2016, 26, 275-287.	12.0	108

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19	Dissecting the transcriptome landscape of the human fetal neural retina and retinal pigment epithelium by single-cell RNA-seq analysis. <i>PLoS Biology</i> , 2019, 17, e3000365.	5.6	108
20	DNA methylation and chromatin accessibility profiling of mouse and human fetal germ cells. <i>Cell Research</i> , 2017, 27, 165-183.	12.0	102
21	Single-cell transcriptome analysis of the novel coronavirus (SARS-CoV-2) associated gene ACE2 expression in normal and non-obstructive azoospermia (NOA) human male testes. <i>Science China Life Sciences</i> , 2020, 63, 1006-1015.	4.9	96
22	Single-cell transcriptomics identifies divergent developmental lineage trajectories during human pituitary development. <i>Nature Communications</i> , 2020, 11, 5275.	12.8	79
23	Single-cell multiomics sequencing reveals the functional regulatory landscape of early embryos. <i>Nature Communications</i> , 2021, 12, 1247.	12.8	79
24	Identification of a human subcortical maternal complex. <i>Molecular Human Reproduction</i> , 2015, 21, 320-329.	2.8	75
25	Bioinspired <i>l</i> -Proline Oligomers for the Cryopreservation of Oocytes <i>via</i> Controlling Ice Growth. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 18352-18362.	8.0	52
26	Effects of oocyte vitrification on histone modifications. <i>Reproduction, Fertility and Development</i> , 2010, 22, 920.	0.4	51
27	Human single follicle growth <i>in vitro</i> from cryopreserved ovarian tissue after slow freezing or vitrification. <i>Human Reproduction</i> , 2016, 31, 763-773.	0.9	50
28	Mesenchymal stem cell-derived angiogenin promotes primordial follicle survival and angiogenesis in transplanted human ovarian tissue. <i>Reproductive Biology and Endocrinology</i> , 2017, 15, 18.	3.3	50
29	Epigenomic Landscape of Human Fetal Brain, Heart, and Liver. <i>Journal of Biological Chemistry</i> , 2016, 291, 4386-4398.	3.4	45
30	Validation of a next-generation sequencing-based protocol for 24-chromosome aneuploidy screening of blastocysts. <i>Fertility and Sterility</i> , 2016, 105, 1532-1536.	1.0	41
31	Testosterone Represses Estrogen Signaling by Upregulating miR-22. <i>Hypertension</i> , 2017, 69, 721-730.	2.7	41
32	Integrated multi-omics reveal epigenomic disturbance of assisted reproductive technologies in human offspring. <i>EBioMedicine</i> , 2020, 61, 103076.	6.1	41
33	High-fat diets exaggerate endocrine and metabolic phenotypes in a rat model of DHEA-induced PCOS. <i>Reproduction</i> , 2016, 151, 431-441.	2.6	37
34	Re-analysis of aneuploidy blastocysts with an inner cell mass and different regional trophoctoderm cells. <i>Journal of Assisted Reproduction and Genetics</i> , 2017, 34, 487-493.	2.5	37
35	L-proline: a highly effective cryoprotectant for mouse oocyte vitrification. <i>Scientific Reports</i> , 2016, 6, 26326.	3.3	36
36	Validation of multiple annealing and looping-based amplification cycle sequencing for 24-chromosome aneuploidy screening of cleavage-stage embryos. <i>Fertility and Sterility</i> , 2014, 102, 1685-1691.	1.0	31

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37	Epigenetic Regulation and Risk Factors During the Development of Human Gametes and Early Embryos. Annual Review of Genomics and Human Genetics, 2019, 20, 21-40.	6.2	29
38	Endometrial miR-543 Is Downregulated During the Implantation Window in Women With Endometriosis-Related Infertility. Reproductive Sciences, 2019, 26, 900-908.	2.5	29
39	Mesenchymal Stem Cells Facilitate In Vitro Development of Human Preantral Follicle. Reproductive Sciences, 2015, 22, 1367-1376.	2.5	28
40	Dissecting the epigenomic dynamics of human fetal germ cell development at single-cell resolution. Cell Research, 2021, 31, 463-477.	12.0	28
41	Clinical applications of MARSALA for preimplantation genetic diagnosis of spinal muscular atrophy. Journal of Genetics and Genomics, 2016, 43, 541-547.	3.9	27
42	SARS-CoV-2 Entry Factors: ACE2 and TMPRSS2 Are Expressed in Peri-Implantation Embryos and the Maternal-Fetal Interface. Engineering, 2020, 6, 1162-1169.	6.7	27
43	A novel homozygous mutation of phospholipase C zeta leading to defective human oocyte activation and fertilization failure. Human Reproduction, 2020, 35, 977-985.	0.9	27
44	Triome whole-exome sequencing and preimplantation genetic diagnosis for unexplained recurrent fetal malformations. Human Mutation, 2020, 41, 432-448.	2.5	26
45	Activation of hedgehog signaling and its association with cisplatin resistance in ovarian epithelial tumors. Oncology Letters, 2018, 15, 5569-5576.	1.8	24
46	Effects of vitrification and cryostorage duration on single-cell RNA-Seq profiling of vitrified-thawed human metaphase II oocytes. Frontiers of Medicine, 2021, 15, 144-154.	3.4	23
47	NAT10-mediated N <sup>4</sup> -acetylcytidine modification is required for meiosis entry and progression in male germ cells. Nucleic Acids Research, 2022, 50, 10896-10913.	14.5	20
48	Age-related changes in human conventional semen parameters and sperm chromatin structure assay-defined sperm DNA/chromatin integrity. Reproductive BioMedicine Online, 2021, 42, 973-982.	2.4	18
49	DevOmics: an integrated multi-omics database of human and mouse early embryo. Briefings in Bioinformatics, 2021, 22, .	6.5	16
50	Bone mesenchymal stem cells improve pregnancy outcome by inducing maternal tolerance to the allogeneic fetus in abortion-prone matings in mouse. Placenta, 2016, 47, 29-36.	1.5	15
51	Advances in preimplantation genetic diagnosis/screening. Science China Life Sciences, 2014, 57, 665-671.	4.9	13
52	Cryobiological Characteristics of L-proline in Mammalian Oocyte Cryopreservation. Chinese Medical Journal, 2016, 129, 1963-1968.	2.3	13
53	Poor intracytoplasmic sperm injection outcome in infertile males with azoospermia factor c microdeletions. Fertility and Sterility, 2021, 116, 96-104.	1.0	13
54	The "normal" range of FMR1 triple CGG repeats may be associated with primary ovarian insufficiency in China. Reproductive BioMedicine Online, 2017, 34, 175-180.	2.4	12

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55	Loss of CEP70 function affects acrosome biogenesis and flagella formation during spermiogenesis. <i>Cell Death and Disease</i> , 2021, 12, 478.	6.3	12
56	Lipid Metabolism Was Associated With Oocyte in vitro Maturation in Women With Polycystic Ovarian Syndrome Undergoing Unstimulated Natural Cycle. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 719173.	3.7	12
57	Fractalkine restores the decreased expression of StAR and progesterone in granulosa cells from patients with polycystic ovary syndrome. <i>Scientific Reports</i> , 2016, 6, 26205.	3.3	10
58	TRAIP is involved in chromosome alignment and SAC regulation in mouse oocyte meiosis. <i>Scientific Reports</i> , 2016, 6, 29735.	3.3	10
59	The present and future of whole-exome sequencing in studying and treating human reproductive disorders. <i>Journal of Genetics and Genomics</i> , 2018, 45, 517-525.	3.9	10
60	Maternal and neonatal outcomes following blastocyst biopsy for PGT in single vitrified “warmed embryo transfer cycles. <i>Reproductive BioMedicine Online</i> , 2022, 44, 151-162.	2.4	10
61	A strategy using <sc>SNP</sc> linkage analysis for monogenic diseases <sc>PGD</sc> combined with <sc>HLA</sc> typing. <i>Clinical Genetics</i> , 2020, 98, 138-146.	2.0	9
62	Clinical application of an NGS-based method in the preimplantation genetic testing for Duchenne muscular dystrophy. <i>Journal of Assisted Reproduction and Genetics</i> , 2021, 38, 1979-1986.	2.5	9
63	Exploring the role of autophagy during early human embryonic development through single-cell transcriptome and methylome analyses. <i>Science China Life Sciences</i> , 2022, 65, 940-952.	4.9	9
64	scHaplotyper: haplotype construction and visualization for genetic diagnosis using single cell DNA sequencing data. <i>BMC Bioinformatics</i> , 2020, 21, 41.	2.6	9
65	Dissecting Human Gonadal Cell Lineage Specification and Sex Determination Using A Single-cell RNA-seq Approach. <i>Genomics, Proteomics and Bioinformatics</i> , 2022, 20, 223-245.	6.9	9
66	5-Formylcytosine landscapes of human preimplantation embryos at single-cell resolution. <i>PLoS Biology</i> , 2020, 18, e3000799.	5.6	8
67	The methylome of a human polar body reflects that of its sibling oocyte and its aberrance may indicate poor embryo development. <i>Human Reproduction</i> , 2021, 36, 318-330.	0.9	8
68	Selective impairment in glycogen synthase kinase-3 and mitogen-activated protein kinase phosphorylation: comparisons with the hyperandrogenic and the hyperinsulinemic rats. <i>Fertility and Sterility</i> , 2009, 92, 1447-1455.	1.0	7
69	ART do not increase the risk of Y-chromosome microdeletion in 19 candidate genes at AZF regions. <i>Reproduction, Fertility and Development</i> , 2014, 26, 778.	0.4	7
70	Identifying normal embryos from reciprocal translocation carriers by whole chromosome haplotyping. <i>Journal of Genetics and Genomics</i> , 2018, 45, 505-508.	3.9	7
71	Genetic testing and PGD for unexplained recurrent fetal malformations with MAGEL2 gene mutation. <i>Science China Life Sciences</i> , 2019, 62, 886-894.	4.9	6
72	Novel PGD strategy based on single sperm linkage analysis for carriers of single gene pathogenic variant and chromosome reciprocal translocation. <i>Journal of Assisted Reproduction and Genetics</i> , 2020, 37, 1239-1250.	2.5	6

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73	A comprehensive PGT-M strategy for ADPKD patients with de novo PKD1 mutations using affected embryo or gametes as proband. <i>Journal of Assisted Reproduction and Genetics</i> , 2021, 38, 2425-2434.	2.5	6
74	Epigenetic consequences of hormonal interactions between opposite-sex twin fetuses. <i>Clinical and Translational Medicine</i> , 2020, 10, e234.	4.0	5
75	Risk of miscarriage in women with endometriosis undergoing IVF fresh cycles: a retrospective cohort study. <i>Reproductive Biology and Endocrinology</i> , 2019, 17, 21.	3.3	4
76	Meiotic chromatid recombination and segregation assessed with human single cell genome sequencing data. <i>Journal of Medical Genetics</i> , 2019, 56, 156-163.	3.2	4
77	Effects of oocyte vitrification on the behaviors and physiological indexes of aged first filial generation mice. <i>Cryobiology</i> , 2020, 95, 20-28.	0.7	4
78	Transcriptome analysis of PCOS arrested 2-cell embryos. <i>Cell Cycle</i> , 2018, 17, 1007-1013.	2.6	3
79	Genetic analysis and preimplantation genetic diagnosis of Chinese Marfan syndrome patients. <i>Journal of Genetics and Genomics</i> , 2019, 46, 319-323.	3.9	3
80	Effect of serum 25-hydroxyvitamin D levels on sperm quality and assisted reproductive technology outcomes for men of infertile Chinese couples. <i>Andrology</i> , 2020, 8, 1277-1286.	3.5	3
81	OUP accepted manuscript. <i>Molecular Human Reproduction</i> , 2021, , .	2.8	3
82	Effect of vitrification at the germinal vesicle stage on the global methylation status in mouse oocytes subsequently matured in vitro. <i>Chinese Medical Journal</i> , 2014, 127, 4019-24.	2.3	3
83	Application of three-dimensional fluorescence in situ hybridization to human preimplantation genetic diagnosis. <i>Fertility and Sterility</i> , 2009, 92, 1492-1495.	1.0	2
84	Gonadotropin-Mediated Dynamic Alterations During Bovine Oocyte Maturation In Vitro1. <i>Biology of Reproduction</i> , 2014, 91, 44.	2.7	2
85	The function of Nucleoporin 37 on mouse oocyte maturation and preimplantation embryo development. <i>Journal of Assisted Reproduction and Genetics</i> , 2022, 39, 107.	2.5	2
86	A novel pathogenic mutation in FBN2 associated with congenital contractural arachnodactyly for preimplantation genetic diagnosis. <i>Journal of Genetics and Genomics</i> , 2020, 47, 281-284.	3.9	1
87	OP-IVM: Combining In vitro Maturation after Oocyte Retrieval with Gynecological Surgery. <i>Journal of Visualized Experiments</i> , 2021, , .	0.3	1
88	Application of next-generation sequencing to preimplantation genetic testing for recurrent hydatidiform mole patients. <i>Journal of Assisted Reproduction and Genetics</i> , 2021, 38, 2881-2891.	2.5	0