

# Fei Sun

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2811894/publications.pdf>

Version: 2024-02-01

106  
papers

2,716  
citations

201385

27  
h-index

214527

47  
g-index

108  
all docs

108  
docs citations

108  
times ranked

3503  
citing authors

#	ARTICLE	IF	CITATIONS
1	MicroRNA-224 Is Involved in Transforming Growth Factor- $\beta$ -Mediated Mouse Granulosa Cell Proliferation and Granulosa Cell Function by Targeting Smad4. <i>Molecular Endocrinology</i> , 2010, 24, 540-551.	3.7	249
2	Human Male Recombination Maps for Individual Chromosomes. <i>American Journal of Human Genetics</i> , 2004, 74, 521-531.	2.6	126
3	Is there a relationship between sperm chromosome abnormalities and sperm morphology?. <i>Reproductive Biology and Endocrinology</i> , 2006, 4, 1.	1.4	124
4	Transactivation of MicroRNA-320 by MicroRNA-383 Regulates Granulosa Cell Functions by Targeting E2F1 and SF-1 Proteins. <i>Journal of Biological Chemistry</i> , 2014, 289, 18239-18257.	1.6	119
5	Transactivation of microRNA-383 by Steroidogenic Factor-1 Promotes Estradiol Release from Mouse Ovarian Granulosa Cells by Targeting RBMS1. <i>Molecular Endocrinology</i> , 2012, 26, 1129-1143.	3.7	118
6	Outer dense fibers stabilize the axoneme to maintain sperm motility. <i>Journal of Cellular and Molecular Medicine</i> , 2018, 22, 1755-1768.	1.6	89
7	Interleukin-6 disrupts blood-testis barrier through inhibiting protein degradation or activating phosphorylated ERK in Sertoli cells. <i>Scientific Reports</i> , 2014, 4, 4260.	1.6	88
8	Comparative analysis of mammalian sperm ultrastructure reveals relationships between sperm morphology, mitochondrial functions and motility. <i>Reproductive Biology and Endocrinology</i> , 2019, 17, 66.	1.4	76
9	MicroRNA-320a sensitizes tamoxifen-resistant breast cancer cells to tamoxifen by targeting ARPP-19 and ERK1/2. <i>Scientific Reports</i> , 2015, 5, 8735.	1.6	75
10	Variation in meiotic recombination frequencies among human males. <i>Human Genetics</i> , 2005, 116, 172-178.	1.8	73
11	Variation in MLH1 distribution in recombination maps for individual chromosomes from human males. <i>Human Molecular Genetics</i> , 2006, 15, 2376-2391.	1.4	72
12	Sequential expression of long noncoding RNA as mRNA gene expression in specific stages of mouse spermatogenesis. <i>Scientific Reports</i> , 2014, 4, 5966.	1.6	67
13	Abnormal progression through meiosis in men with nonobstructive azoospermia. <i>Fertility and Sterility</i> , 2007, 87, 565-571.	0.5	66
14	Per-Nucleus Crossover Covariation and Implications for Evolution. <i>Cell</i> , 2019, 177, 326-338.e16.	13.5	64
15	Inhibition of ferroptosis attenuates busulfan-induced oligospermia in mice. <i>Toxicology</i> , 2020, 440, 152489.	2.0	60
16	MicroRNA-224 is involved in the regulation of mouse cumulus expansion by targeting Ptx3. <i>Molecular and Cellular Endocrinology</i> , 2014, 382, 244-253.	1.6	58
17	Functional Characterization of MicroRNA-27a-3p Expression in Human Polycystic Ovary Syndrome. <i>Endocrinology</i> , 2018, 159, 297-309.	1.4	50
18	Whole-exome sequencing of a large Chinese azoospermia and severe oligospermia cohort identifies novel infertility causative variants and genes. <i>Human Molecular Genetics</i> , 2020, 29, 2451-2459.	1.4	42

#	ARTICLE	IF	CITATIONS
19	microRNA-383 impairs phosphorylation of H2AX by targeting PNUTS and inducing cell cycle arrest in testicular embryonal carcinoma cells. <i>Cellular Signalling</i> , 2014, 26, 903-911.	1.7	39
20	Reorganized 3D Genome Structures Support Transcriptional Regulation in Mouse Spermatogenesis. <i>IScience</i> , 2020, 23, 101034.	1.9	36
21	Proteomic analysis of seminal extracellular vesicle proteins involved in asthenozoospermia by iTRAQ. <i>Molecular Reproduction and Development</i> , 2019, 86, 1094-1105.	1.0	35
22	Steroidogenic Factor-1 Is Required for TGF- $\beta$ 3-Mediated 17 $\beta$ -Estradiol Synthesis in Mouse Ovarian Granulosa Cells. <i>Endocrinology</i> , 2011, 152, 3213-3225.	1.4	34
23	Tacrolimus Induces Insulin Resistance and Increases the Glucose Absorption in the Jejunum: A Potential Mechanism of the Diabetogenic Effects. <i>PLoS ONE</i> , 2015, 10, e0143405.	1.1	33
24	Potential role of punicalagin against oxidative stress induced testicular damage. <i>Asian Journal of Andrology</i> , 2016, 18, 627.	0.8	31
25	COPII-Dependent ER Export: A Critical Component of Insulin Biogenesis and $\beta$ -Cell ER Homeostasis. <i>Molecular Endocrinology</i> , 2015, 29, 1156-1169.	3.7	30
26	Analysis of non-crossover bivalents in pachytene cells from 10 normal men. <i>Human Reproduction</i> , 2006, 21, 2335-2339.	0.4	29
27	The Association Between Calcium, Magnesium, and Ratio of Calcium/Magnesium in Seminal Plasma and Sperm Quality. <i>Biological Trace Element Research</i> , 2016, 174, 1-7.	1.9	29
28	Hsa-miR-513b-5p suppresses cell proliferation and promotes P53 expression by targeting IRF2 in testicular embryonal carcinoma cells. <i>Gene</i> , 2017, 626, 344-353.	1.0	28
29	Discontinuities and unsynapsed regions in meiotic chromosomes have a cis effect on meiotic recombination patterns in normal human males. <i>Human Molecular Genetics</i> , 2005, 14, 3013-3018.	1.4	27
30	The functional and predictive roles of miR-210 in cryptorchidism. <i>Scientific Reports</i> , 2016, 6, 32265.	1.6	26
31	Ligand-Promoted Iridium-Catalyzed Transfer Hydrogenation of Terminal Alkynes with Ethanol and Its Application. <i>ACS Omega</i> , 2019, 4, 16045-16051.	1.6	26
32	Sperm epigenetic alterations contribute to inter- and transgenerational effects of paternal exposure to long-term psychological stress via evading offspring embryonic reprogramming. <i>Cell Discovery</i> , 2021, 7, 101.	3.1	26
33	Ultrasensitive and facile detection of multiple trace antibiotics with magnetic nanoparticles and core-shell nanostar SERS nanotags. <i>Talanta</i> , 2022, 237, 122955.	2.9	24
34	Phosphorylation of CDK2 at threonine 160 regulates meiotic pachytene and diplotene progression in mice. <i>Developmental Biology</i> , 2014, 392, 108-116.	0.9	23
35	Modulating the Blood-Testis Barrier Towards Increasing Drug Delivery. <i>Trends in Pharmacological Sciences</i> , 2020, 41, 690-700.	4.0	23
36	Actin binding proteins, actin cytoskeleton and spermatogenesis – Lesson from toxicant models. <i>Reproductive Toxicology</i> , 2020, 96, 76-89.	1.3	22

#	ARTICLE	IF	CITATIONS
37	Derlin-1 promotes ubiquitination and degradation of epithelial sodium channel (ENaC). <i>Journal of Cell Science</i> , 2017, 130, 1027-1036.	1.2	21
38	Prevalence of Prediabetes Risk in Offspring Born to Mothers with Hyperandrogenism. <i>EBioMedicine</i> , 2017, 16, 275-283.	2.7	21
39	Unraveling epigenomic abnormality in azoospermic human males by WGBS, RNA-Seq, and transcriptome profiling analyses. <i>Journal of Assisted Reproduction and Genetics</i> , 2020, 37, 789-802.	1.2	21
40	Autism-like behaviors and abnormality of glucose metabolism in offspring derived from aging males with epigenetically modified sperm. <i>Aging</i> , 2020, 12, 19766-19784.	1.4	19
41	Proteome of the porosome complex in human airway epithelia: Interaction with the cystic fibrosis transmembrane conductance regulator (CFTR). <i>Journal of Proteomics</i> , 2014, 96, 82-91.	1.2	18
42	XCI-escaping gene KDM5C contributes to ovarian development via downregulating miR-320a. <i>Human Genetics</i> , 2017, 136, 227-239.	1.8	18
43	BMI1 Drives Steroidogenesis Through Epigenetically Repressing the p38 MAPK Pathway. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 665089.	1.8	18
44	Magnetic Testis Targeting and Magnetic Hyperthermia for Noninvasive, Controllable Male Contraception via Intravenous Administration. <i>Nano Letters</i> , 2021, 21, 6289-6297.	4.5	17
45	Zinc oxide nanoparticle causes toxicity to the development of mouse oocyte and early embryo. <i>Toxicology Letters</i> , 2022, 358, 48-58.	0.4	17
46	Excessive nerve growth factor impairs bidirectional communication between the oocyte and cumulus cells resulting in reduced oocyte competence. <i>Reproductive Biology and Endocrinology</i> , 2018, 16, 28.	1.4	15
47	Punicalagin Mollifies Lead Acetate-Induced Oxidative Imbalance in Male Reproductive System. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1269.	1.8	14
48	Microtubule Cytoskeleton and Spermatogenesis—Lesson From Studies of Toxicant Models. <i>Toxicological Sciences</i> , 2020, 177, 305-315.	1.4	14
49	Knockdown of TrkA in cumulus oocyte complexes (COCs) inhibits EGF-induced cumulus expansion by down-regulation of IL-6. <i>Molecular and Cellular Endocrinology</i> , 2014, 382, 804-813.	1.6	13
50	Human obstructive (postvasectomy) and nonobstructive azoospermia — Insights from scRNA-Seq and transcriptome analysis. <i>Genes and Diseases</i> , 2022, 9, 766-776.	1.5	13
51	KIF15 Supports Spermatogenesis Via Its Effects on Sertoli Cell Microtubule, Actin, Vimentin, and Septin Cytoskeletons. <i>Endocrinology</i> , 2021, 162, .	1.4	13
52	Alternative splicing and MicroRNA: epigenetic mystique in male reproduction. <i>RNA Biology</i> , 2022, 19, 162-175.	1.5	13
53	Perfluorooctanoic acid alters the developmental trajectory of female germ cells and embryos in rodents and its potential mechanism. <i>Ecotoxicology and Environmental Safety</i> , 2022, 236, 113467.	2.9	13
54	Phosphorylation of CDK2 on Threonine 160 Influences Silencing of Sex Chromosome During Male Meiosis1. <i>Biology of Reproduction</i> , 2014, 90, 138.	1.2	12

#	ARTICLE	IF	CITATIONS
55	NGF promotes mouse granulosa cell proliferation by inhibiting ESR2 mediated down-regulation of CDKN1A. <i>Molecular and Cellular Endocrinology</i> , 2015, 406, 68-77.	1.6	12
56	Acid-promoted iron-catalysed dehydrogenative [4 + 2] cycloaddition for the synthesis of quinolines under air. <i>RSC Advances</i> , 2018, 8, 31603-31607.	1.7	12
57	Reassessment of the Proteomic Composition and Function of Extracellular Vesicles in the Seminal Plasma. <i>Endocrinology</i> , 2022, 163, .	1.4	12
58	Point mutations in KAL1 and the mitochondrial gene MT-tRNA <sup>cys</sup> synergize to produce Kallmann syndrome phenotype. <i>Scientific Reports</i> , 2015, 5, 13050.	1.6	11
59	Deletion of lncRNA5512 has no effect on spermatogenesis and reproduction in mice. <i>Reproduction, Fertility and Development</i> , 2020, 32, 706.	0.1	11
60	The testis-specific gene 1700102P08Rik is essential for male fertility. <i>Molecular Reproduction and Development</i> , 2020, 87, 231-240.	1.0	11
61	The novel testicular enrichment protein Cfp58 is required for Notch-associated ciliogenesis. <i>Bioscience Reports</i> , 2020, 40, .	1.1	11
62	Dynamic Profiles and Transcriptional Preferences of Histone Modifications During Spermiogenesis. <i>Endocrinology</i> , 2021, 162, .	1.4	10
63	Murine PAIP1 stimulates translation of spermiogenic mRNAs stored by YBX2 via its interaction with YBX2. <i>Biology of Reproduction</i> , 2019, 100, 561-572.	1.2	9
64	Two resveratrol analogs, pinosylvin and 4,4-dihydroxystilbene, improve oligoasthenospermia in a mouse model by attenuating oxidative stress via the Nrf2-ARE pathway. <i>Bioorganic Chemistry</i> , 2020, 104, 104295.	2.0	9
65	Hippocampal overexpression of chordin protects against the chronic social defeat stress-induced depressive-like effects in mice. <i>Brain Research Bulletin</i> , 2020, 158, 31-39.	1.4	9
66	Conditional deletion of Wntless in granulosa cells causes impaired corpora lutea formation and subfertility. <i>Aging</i> , 2021, 13, 1001-1016.	1.4	9
67	BMI1 promotes spermatogonial stem cell maintenance by epigenetically repressing Wnt10b/ $\beta$ -catenin signaling. <i>International Journal of Biological Sciences</i> , 2022, 18, 2807-2820.	2.6	9
68	Ca <sup>2+</sup> /Calmodulin-Dependent Protein Kinase IV Promotes Interplay of Proteins in Chromatoid Body of Male Germ Cells. <i>Scientific Reports</i> , 2015, 5, 12126.	1.6	8
69	Tethering of Telomeres to the Nuclear Envelope Is Mediated by SUN1-MAJIN and Possibly Promoted by SPDYA-CDK2 During Meiosis. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 845.	1.8	8
70	Expression and localization of retinoid receptors in the testis of normal and infertile men. <i>Molecular Reproduction and Development</i> , 2020, 87, 978-985.	1.0	8
71	CG6015 controls spermatogonia transit-amplifying divisions by epidermal growth factor receptor signaling in <i>Drosophila</i> testes. <i>Cell Death and Disease</i> , 2021, 12, 491.	2.7	8
72	High Throughput scRNA-Seq Provides Insights Into Leydig Cell Senescence Induced by Experimental Autoimmune Orchitis: A Prominent Role of Interstitial Fibrosis and Complement Activation. <i>Frontiers in Immunology</i> , 2021, 12, 771373.	2.2	8

#	ARTICLE	IF	CITATIONS
73	Dopamine-Modified AuCu Bimetallic Nanoclusters as Charge Transfer-Based Biosensors for Highly Sensitive Glycine Detection. <i>Langmuir</i> , 2020, 36, 13928-13936.	1.6	7
74	Role of laminin and collagen chains in human spermatogenesis – Insights from studies in rodents and scRNA-Seq transcriptome profiling. <i>Seminars in Cell and Developmental Biology</i> , 2022, 121, 125-132.	2.3	7
75	CD147 deficiency is associated with impaired sperm motility/acrosome reaction and offers a therapeutic target for asthenozoospermia. <i>Molecular Therapy - Nucleic Acids</i> , 2021, 26, 1374-1386.	2.3	6
76	Smtnl2 regulates apoptotic germ cell clearance and lactate metabolism in mouse Sertoli cells. <i>Molecular and Cellular Endocrinology</i> , 2022, 551, 111664.	1.6	6
77	Proteomic Analysis of Pachytene Spermatocytes of Sterile Hybrid Male Mice. <i>Biology of Reproduction</i> , 2016, 95, 52-52.	1.2	5
78	Copper nanoclusters with/without salicylaldehyde-modulation for multifunctional detection of mercury, cobalt, nitrite and cyanide ions in aqueous solution and bioimaging. <i>Nanotechnology</i> , 2021, 32, 145704.	1.3	5
79	Uncoupling transcription and translation through miRNA-dependent poly(A) length control in haploid male germ cells. <i>Development (Cambridge)</i> , 2022, 149, .	1.2	5
80	Comparative analysis of the testes from wild-type and <i>Alkbh5</i> -knockout mice using single-cell RNA sequencing. <i>G3: Genes, Genomes, Genetics</i> , 2022, 12, .	0.8	5
81	KH-type splicing regulatory protein is a new component of chromatoid body. <i>Reproduction</i> , 2017, 154, 723-733.	1.1	4
82	Aluminum-Enhanced Fluorescence of Cu <sub>8</sub> Nanoclusters: An Effective Method for Sensitive Detection of Fluoride in Aqueous and Bioimaging. <i>ACS Applied Bio Materials</i> , 2020, 3, 1712-1721.	2.3	4
83	mTORC1/rpS6 and p-FAK-Y407 signaling regulate spermatogenesis: Insights from studies of the adjuvant pharmaceutical/toxicant model. <i>Seminars in Cell and Developmental Biology</i> , 2022, 121, 53-62.	2.3	4
84	Pentacle gold-copper alloy nanocrystals: a new system for entering male germ cells in vitro and in vivo. <i>Scientific Reports</i> , 2016, 6, 39592.	1.6	3
85	Overexpression of Human-Derived DNMT3A Induced Intergenerational Inheritance of Active DNA Methylation Changes in Rat Sperm. <i>Frontiers in Genetics</i> , 2017, 8, 207.	1.1	3
86	Functional role of GKAP1 in the regulation of male germ cell spontaneous apoptosis and sperm number. <i>Molecular Reproduction and Development</i> , 2019, 86, 1199-1209.	1.0	3
87	Mn(II)-Catalysed ortho-alkenylation of aromatic amines and its application in reproductive diseases. <i>RSC Advances</i> , 2021, 11, 164-167.	1.7	3
88	Human adenylate kinase 6 regulates WNK1 (with no lysine kinase-1) phosphorylation states and affects ion homeostasis in NT2 cells. <i>Experimental Cell Research</i> , 2021, 402, 112565.	1.2	3
89	AKAP9 supports spermatogenesis through its effects on microtubule and actin cytoskeletons in the rat testis. <i>FASEB Journal</i> , 2021, 35, e21925.	0.2	3
90	NBMA Promotes Spermatogenesis by Mediating Oct4 Pathway. <i>ChemistryOpen</i> , 2022, 11, e202100219.	0.9	3

#	ARTICLE	IF	CITATIONS
91	Peptides from the croceine croaker ( <i>Larimichthys crocea</i> ) swim bladder attenuate busulfan-induced oligoasthenospermia in mice. <i>Pharmaceutical Biology</i> , 2022, 60, 319-325.	1.3	3
92	Circulating microRNAs in seminal plasma as predictors of sperm retrieval in microdissection testicular sperm extraction. <i>Annals of Translational Medicine</i> , 2022, 10, 392-392.	0.7	3
93	Melatonin prevents oocyte deterioration due to cotinine exposure in mice. <i>Biology of Reproduction</i> , 2022, 107, 635-649.	1.2	3
94	Gold Nanoclusters Inhibit the Male Reproductive Toxicity of Cu <sup>2+</sup> . <i>ACS Applied Nano Materials</i> , 2021, 4, 13919-13926.	2.4	3
95	Toxic effects of 4-methylimidazole on the maturation and fertilization of mouse oocytes. <i>Food and Chemical Toxicology</i> , 2022, 164, 113051.	1.8	3
96	C30F12.4 influences oogenesis, fat metabolism, and lifespan in <i>C. elegans</i> . <i>Protein and Cell</i> , 2016, 7, 714-721.	4.8	2
97	Imsnc761 and DDX6 synergistically suppress cell proliferation and promote apoptosis via p53 in testicular embryonal carcinoma cells. <i>Bioscience Reports</i> , 2018, 38, .	1.1	2
98	Commentary on "The Imp2l Mutation Causes Ovarian Aging Through ROS-Wnt/ $\beta$ 2-Catenin-Estrogen Pathway: Preventive Effect of Melatonin". <i>Endocrinology</i> , 2020, 161, .	1.4	2
99	Overexpression of human-derived DNMT3A induced intergenerational inheritance of DNA methylation and gene expression variations in rat brain and testis. <i>Epigenetics</i> , 2020, 15, 1107-1120.	1.3	2
100	Thy1-Positive Spermatogonia Suppress the Proliferation of Spermatogonial Stem Cells by Extracellular Vesicles In Vitro. <i>Endocrinology</i> , 2021, 162, .	1.4	2
101	The expression of the new epididymal luminal protein of PDZ domain containing 1 is decreased in asthenozoospermia. <i>Asian Journal of Andrology</i> , 2018, 20, 154.	0.8	2
102	Tex13a Optimizes Sperm Motility via Its Potential Roles in mRNA Turnover. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 761627.	1.8	2
103	Dibutyltin dichloride exposure affects mouse oocyte quality by inducing spindle defects and mitochondria dysfunction. <i>Chemosphere</i> , 2022, 295, 133959.	4.2	2
104	Highly sensitive detection of free testosterone assisted by magnetic nanobeads and gap-enhanced SERS nanotags. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 214, 112460.	2.5	2
105	Laparoscopic Enucleation of Hepatic Cysts Reduces the Recurrence of Nonparasitic Hepatic Cysts. <i>Journal of Laparoendoscopic and Advanced Surgical Techniques - Part A</i> , 2021, 31, 314-319.	0.5	1
106	G3BP2, a stress granule assembly factor, is dispensable for spermatogenesis in mice. <i>PeerJ</i> , 0, 10, e13532.	0.9	1