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List of Publications by Year in descending order

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59
papers

3,544
citations

165694

29
h-index

144563

57
g-index

70
all docs

70
docs citations

70
times ranked

3892
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of sperm DNA fragmentation on miscarriage rates: a systematic review and meta-analysis. <i>Human Reproduction</i> , 2012, 27, 2908-2917.	0.9	514
2	Human spermatozoa migration in microchannels reveals boundary-following navigation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 8007-8010.	7.6	252
3	Human sperm accumulation near surfaces: a simulation study. <i>Journal of Fluid Mechanics</i> , 2009, 621, 289-320.	3.5	189
4	Bend propagation in the flagella of migrating human sperm, and its modulation by viscosity. <i>Cytoskeleton</i> , 2009, 66, 220-236.	3.1	188
5	A survey of assisted reproductive technology births and imprinting disorders. <i>Human Reproduction</i> , 2007, 22, 3237-3240.	0.9	158
6	Ca ²⁺ Signals Generated by CatSper and Ca ²⁺ Stores Regulate Different Behaviors in Human Sperm*. <i>Journal of Biological Chemistry</i> , 2013, 288, 6248-6258.	3.5	135
7	Nonlinear instability in flagellar dynamics: a novel modulation mechanism in sperm migration?. <i>Journal of the Royal Society Interface</i> , 2010, 7, 1689-1697.	3.4	99
8	Sperm motility: is viscosity fundamental to progress?. <i>Molecular Human Reproduction</i> , 2011, 17, 539-544.	2.9	96
9	Physiological, hyaluronan-selected intracytoplasmic sperm injection for infertility treatment (HABSelect): a parallel, two-group, randomised trial. <i>Lancet, The</i> , 2019, 393, 416-422.	12.1	94
10	Biphasic Elevation of [Ca ²⁺] _i in Individual Human Spermatozoa Exposed to Progesterone. <i>Developmental Biology</i> , 2000, 222, 326-335.	2.1	77
11	Coarse-Graining the Fluid Flow around a Human Sperm. <i>Physical Review Letters</i> , 2017, 118, 124501.	8.0	70
12	Patterns of [Ca ²⁺] _i mobilization and cell response in human spermatozoa exposed to progesterone. <i>Developmental Biology</i> , 2007, 302, 324-332.	2.1	54
13	Encoding of progesterone stimulus intensity by intracellular [Ca ²⁺] ([Ca ²⁺] _i) in human spermatozoa. <i>Biochemical Journal</i> , 2003, 372, 407-417.	3.8	52
14	Slow calcium oscillations in human spermatozoa. <i>Biochemical Journal</i> , 2004, 378, 827-832.	3.8	45
15	Mobilisation of Ca ²⁺ stores and flagellar regulation in human sperm by S-nitrosylation: a role for NO synthesised in the female reproductive tract. <i>Development (Cambridge)</i> , 2008, 135, 3677-3686.	2.6	45
16	SARS-CoV-2 pandemic and repercussions for male infertility patients: A proposal for the individualized provision of andrological services. <i>Andrology</i> , 2021, 9, 10-18.	3.5	44
17	Modelling a tethered mammalian sperm cell undergoing hyperactivation. <i>Journal of Theoretical Biology</i> , 2012, 309, 1-10.	1.7	42
18	Rapid sperm capture: high-throughput flagellar waveform analysis. <i>Human Reproduction</i> , 2019, 34, 1173-1185.	0.9	40

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19	Nifedipine reveals the existence of two discrete components of the progesterone-induced $[Ca^{2+}]_i$ transient in human spermatozoa. <i>Developmental Biology</i> , 2003, 259, 71-82.	2.1	38
20	2-APB-potentiated channels amplify CatSper-induced Ca^{2+} signals in human sperm. <i>Biochemical Journal</i> , 2012, 448, 189-200.	3.8	38
21	Human sperm swimming in a high viscosity mucus analogue. <i>Journal of Theoretical Biology</i> , 2018, 446, 1-10.	1.7	38
22	Multi-state, 4-aminopyridine-sensitive ion channels in human spermatozoa. <i>Developmental Biology</i> , 2004, 274, 308-317.	2.1	34
23	Kinetics of the Progesterone-Induced Acrosome Reaction and Its Relation to Intracellular Calcium Responses in Individual Human Spermatozoa1. <i>Biology of Reproduction</i> , 2006, 75, 933-939.	2.6	34
24	The Steroid Metabolome in the Isolated Ovarian Follicle and Its Response to Androgen Exposure and Antagonism. <i>Endocrinology</i> , 2017, 158, 1474-1485.	2.8	34
25	Non-Genomic Steroid Actions in Human Spermatozoa. <i>Seminars in Reproductive Medicine</i> , 2007, 25, 208-220.	1.2	33
26	Zona Pellucida and Progesterone-Induced Ca^{2+} Signaling and Acrosome Reaction in Human Spermatozoa. <i>Journal of Andrology</i> , 2002, 23, 306-315.	1.8	33
27	Evaluation of a disposable plastic Neubauer counting chamber for semen analysis. <i>Fertility and Sterility</i> , 2009, 91, 627-631.	0.9	32
28	Coordinated transcriptional regulation patterns associated with infertility phenotypes in men. <i>Journal of Medical Genetics</i> , 2007, 44, 498-508.	3.6	30
29	Good practice recommendations for information provision for those involved in reproductive donation. <i>Human Reproduction Open</i> , 2022, 2022, hoac001.	5.7	27
30	How to attract a sperm. <i>Nature Cell Biology</i> , 2003, 5, 93-95.	10.0	26
31	Standards in semen examination: publishing reproducible and reliable data based on high-quality methodology. <i>Human Reproduction</i> , 2022, 37, 2497-2502.	0.9	26
32	Glyph-Based Video Visualization for Semen Analysis. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2015, 21, 980-993.	4.5	25
33	Vitamin D and assisted reproductive treatment outcome: a prospective cohort study. <i>Reproductive Health</i> , 2019, 16, 106.	3.1	25
34	Extended semen examinations in the sixth edition of the WHO Laboratory Manual for the Examination and Processing of Human Semen: contributing to the understanding of the function of the male reproductive system. <i>Fertility and Sterility</i> , 2022, 117, 252-257.	0.9	24
35	Inhibitors of receptor tyrosine kinases do not suppress progesterone-induced $[Ca^{2+}]_i$ signalling in human spermatozoa. <i>Molecular Human Reproduction</i> , 2002, 8, 326-332.	2.9	21
36	UK guidelines for the medical and laboratory procurement and use of sperm, oocyte and embryo donors (2019). <i>Human Fertility</i> , 2021, 24, 3-13.	1.8	20

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37	Evolving minimum standards in responsible international sperm donor offspring quota. <i>Reproductive BioMedicine Online</i> , 2015, 30, 568-580.	2.5	17
38	2016 Laboratory guidelines for postvasectomy semen analysis: Association of Biomedical Andrologists, the British Andrology Society and the British Association of Urological Surgeons. <i>Journal of Clinical Pathology</i> , 2016, 69, 655-660.	2.2	17
39	Calcium oscillations induced by ATP in human umbilical cord smooth muscle cells. <i>Journal of Cellular Physiology</i> , 2007, 213, 79-87.	4.2	14
40	Doing more with less: The flagellar end piece enhances the propulsive effectiveness of human spermatozoa. <i>Physical Review Fluids</i> , 2020, 5, .	2.6	14
41	Techniques for Imaging Ca^{2+} Signaling in Human Sperm. <i>Journal of Visualized Experiments</i> , 2010, , .	0.3	11
42	Temporal design for additive manufacturing. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 106, 3849-3857.	3.0	11
43	Sperm selection for assisted reproduction by prior hyaluronan binding: the HABSelect RCT. <i>Efficacy and Mechanism Evaluation</i> , 2019, 6, 1-80.	0.8	11
44	“Genes versus children”: if the goal is parenthood, are we using the optimal approach?. <i>Human Reproduction</i> , 2020, 35, 5-11.	0.9	10
45	Sperm DNA fragmentation in miscarriage “ a promising diagnostic, or a test too far?. <i>Reproductive BioMedicine Online</i> , 2017, 34, 3-4.	2.5	9
46	Replacing IUI with IVF for initial treatment of unexplained infertility: why this NICE recommendation is cause for concern. <i>Human Fertility</i> , 2016, 19, 80-84.	1.8	7
47	The analogies between human development and additive manufacture: Expanding the definition of design. <i>Cogent Engineering</i> , 2019, 6, .	2.3	7
48	On-Demand Electrical Switching of Antibody-Antigen Binding on Surfaces. <i>ACS Applied Bio Materials</i> , 2018, 1, 738-747.	4.8	6
49	Communication between female tract and sperm. <i>Communicative and Integrative Biology</i> , 2009, 2, 82-85.	1.5	4
50	Traumatic andropause after combat injury. <i>BMJ Case Reports</i> , 2015, 2015, bcr2014207924.	0.5	4
51	Axonemal regulation by curvature explains sperm flagellar waveform modulation. <i>PNAS Nexus</i> , 2023, 2, .	2.6	4
52	Physiological and Proteomic Approaches to Understanding Human Sperm Function. , 2007, , 77-97.		2
53	Reply: Development of a novel home sperm test - temperature range. <i>Human Reproduction</i> , 2006, 21, 3028-3029.	0.9	0
54	Heads and Tails: Requirements for Informative and Robust Computational Measures of Sperm Motility. , 2021, , 135-150.		0

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55	Direct inhibition of TRPC3 by polyunsaturated fatty acids in MCF7 breast cancer cells. FASEB Journal, 2006, 20, A329.	0.5	0
56	Only the Best of the Bunch? Sperm Preparation Is Not Just about Numbers. Seminars in Reproductive Medicine, 2023, 41, 273-278.	1.2	0
57	Association of Reproductive and Clinical Scientists (ARCS) 's' guidelines on good practice in clinical embryology laboratories 2024. Reproductive BioMedicine Online, 2024, , 104102.	2.5	0
58	Laboratory Diagnostic Andrology UK Guidelines for Good Practice (2024). Reproductive BioMedicine Online, 2024, , 104373.	2.5	0
59	Is AMH a promising predictive biomarker for mTESE success in iNOA patients?. Human Reproduction, 0, , .	0.9	0