Jackson C Kirkman-Brown

List of Publications by Year
in descending order

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72 papers	3,997 citations	147801 31 h-index	123424 61 g-index
76 all docs	76 docs citations	76 times ranked	3583 citing authors

#	Article	IF	Citations
1	The effect of sperm DNA fragmentation on miscarriage rates: a systematic review and meta-analysis. Human Reproduction, 2012, 27, 2908-2917.	0.9	500
2	Mammalian Sperm Motility: Observation and Theory. Annual Review of Fluid Mechanics, 2011, 43, 501-528.	25.0	301
3	Male Oxidative Stress Infertility (MOSI): Proposed Terminology and Clinical Practice Guidelines for Management of Idiopathic Male Infertility. World Journal of Men?s Health, 2019, 37, 296.	3.3	256
4	Human spermatozoa migration in microchannels reveals boundary-following navigation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8007-8010.	7.1	247
5	Human sperm accumulation near surfaces: a simulation study. Journal of Fluid Mechanics, 2009, 621, 289-320.	3.4	186
6	Ca2+-stores in sperm: their identities and functions. Reproduction, 2009, 138, 425-437.	2.6	181
7	Bend propagation in the flagella of migrating human sperm, and its modulation by viscosity. Cytoskeleton, 2009, 66, 220-236.	4.4	181
8	A survey of assisted reproductive technology births and imprinting disorders. Human Reproduction, 2007, 22, 3237-3240.	0.9	157
9	The barriers to the progression of additive manufacture: Perspectives from UK industry. International Journal of Production Economics, 2018, 198, 104-118.	8.9	157
10	Ca2+ Signals Generated by CatSper and Ca2+ Stores Regulate Different Behaviors in Human Sperm*. Journal of Biological Chemistry, 2013, 288, 6248-6258.	3.4	134
11	Sperm motility: is viscosity fundamental to progress?. Molecular Human Reproduction, 2011, 17, 539-544.	2.8	95
12	Nonlinear instability in flagellar dynamics: a novel modulation mechanism in sperm migration?. Journal of the Royal Society Interface, 2010, 7, 1689-1697.	3.4	94
13	Physiological, hyaluronan-selected intracytoplasmic sperm injection for infertility treatment (HABSelect): a parallel, two-group, randomised trial. Lancet, The, 2019, 393, 416-422.	13.7	85
14	Biphasic Elevation of [Ca2+]i in Individual Human Spermatozoa Exposed to Progesterone. Developmental Biology, 2000, 222, 326-335.	2.0	77
15	Counting sperm does not add up any more: time for a new equation?. Reproduction, 2007, 133, 675-684.	2.6	75
16	Coarse-Graining the Fluid Flow around a Human Sperm. Physical Review Letters, 2017, 118, 124501.	7.8	67
17	Patterns of [Ca2+]i mobilization and cell response in human spermatozoa exposed to progesterone. Developmental Biology, 2007, 302, 324-332.	2.0	54
18	Encoding of progesterone stimulus intensity by intracellular [Ca2+] ([Ca2+]i) in human spermatozoa. Biochemical Journal, 2003, 372, 407-417.	3.7	52

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19	Pregnancy and perinatal outcomes after assisted reproduction: a comparative study. Irish Journal of Medical Science, 2008, 177, 233-241.	1.5	46
20	Slow calcium oscillations in human spermatozoa. Biochemical Journal, 2004, 378, 827-832.	3.7	44
21	Mobilisation of Ca2+ stores and flagellar regulation in human sperm by S-nitrosylation: a role for NO synthesised in the female reproductive tract. Development (Cambridge), 2008, 135, 3677-3686.	2.5	44
22	Modelling a tethered mammalian sperm cell undergoing hyperactivation. Journal of Theoretical Biology, 2012, 309, 1-10.	1.7	42
23	Development of a novel home sperm test. Human Reproduction, 2006, 21, 145-149.	0.9	41
24	CASA: tracking the past and plotting the future. Reproduction, Fertility and Development, 2018, 30, 867.	0.4	41
25	SARSâ€CoVâ€2 pandemic and repercussions for male infertility patients: A proposal for the individualized provision of andrological services. Andrology, 2021, 9, 10-18.	3.5	41
26	Nifedipine reveals the existence of two discrete components of the progesterone-induced [Ca2+]i transient in human spermatozoa. Developmental Biology, 2003, 259, 71-82.	2.0	38
27	2-APB-potentiated channels amplify CatSper-induced Ca2+ signals in human sperm. Biochemical Journal, 2012, 448, 189-200.	3.7	38
28	Rapid sperm capture: high-throughput flagellar waveform analysis. Human Reproduction, 2019, 34, 1173-1185.	0.9	38
29	Zona pellucida and progesterone-induced Ca2+ signaling and acrosome reaction in human spermatozoa. Journal of Andrology, 2002, 23, 306-15.	2.0	37
30	Human sperm swimming in a high viscosity mucus analogue. Journal of Theoretical Biology, 2018, 446, 1-10.	1.7	36
31	Multi-state, 4-aminopyridine-sensitive ion channels in human spermatozoa. Developmental Biology, 2004, 274, 308-317.	2.0	34
32	Kinetics of the Progesterone-Induced Acrosome Reaction and Its Relation to Intracellular Calcium Responses in Individual Human Spermatozoa1. Biology of Reproduction, 2006, 75, 933-939.	2.7	33
33	Non-Genomic Steroid Actions in Human Spermatozoa. Seminars in Reproductive Medicine, 2007, 25, 208-220.	1.1	33
34	Evaluation of a disposable plastic Neubauer counting chamber for semen analysis. Fertility and Sterility, 2009, 91, 627-631.	1.0	32
35	The Steroid Metabolome in the Isolated Ovarian Follicle and Its Response to Androgen Exposure and Antagonism. Endocrinology, 2017, 158, 1474-1485.	2.8	32
36	Coordinated transcriptional regulation patterns associated with infertility phenotypes in men. Journal of Medical Genetics, 2007, 44, 498-508.	3.2	30

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37	How to attract a sperm. Nature Cell Biology, 2003, 5, 93-95.	10.3	26
38	The mechanics of hyperactivation in adhered human sperm. Royal Society Open Science, 2014, 1, 140230.	2.4	26
39	Patch-clamp â€˜mappingâ€™ of ion channel activity in human sperm reveals regionalisation and co-localisation into mixed clusters. Journal of Cellular Physiology, 2007, 213, 801-808.	4.1	23
40	Glyph-Based Video Visualization for Semen Analysis. IEEE Transactions on Visualization and Computer Graphics, 2015, 21, 980-993.	4.4	23
41	Hyaluronic Acid Binding Sperm Selection for assisted reproduction treatment (HABSelect): study protocol for a multicentre randomised controlled trial. BMJ Open, 2016, 6, e012609.	1.9	22
42	Vitamin D and assisted reproductive treatment outcome: a prospective cohort study. Reproductive Health, 2019, 16, 106.	3.1	22
43	Inhibitors of receptor tyrosine kinases do not suppress progesterone-induced [Ca2+]i signalling in human spermatozoa. Molecular Human Reproduction, 2002, 8, 326-332.	2.8	21
44	Sperm selection with hyaluronic acid improved live birth outcomes among older couples and was connected to sperm DNA quality, potentially affecting all treatment outcomes. Human Reproduction, 2022, 37, 1106-1125.	0.9	21
45	Evolving minimum standards in responsible international sperm donor offspring quota. Reproductive BioMedicine Online, 2015, 30, 568-580.	2.4	17
46	UK guidelines for the medical and laboratory procurement and use of sperm, oocyte and embryo donors (2019). Human Fertility, 2021, 24, 3-13.	1.7	17
47	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. Fertility and Sterility, 2022, 117, 252-257.	1.0	17
48	Comment on the Article by J. Elgeti, U. B. Kaupp, and G. Gompper: Hydrodynamics of Sperm Cells Near Surfaces. Biophysical Journal, 2011, 100, 2318-2320.	0.5	16
49	2016 Laboratory guidelines for postvasectomy semen analysis: Association of Biomedical Andrologists, the British Andrology Society and the British Association of Urological Surgeons. Journal of Clinical Pathology, 2016, 69, 655-660.	2.0	16
50	Good practice recommendations for information provision for those involved in reproductive donationâ€. Human Reproduction Open, 2022, 2022, hoac001.	5.4	16
51	Doing more with less: The flagellar end piece enhances the propulsive effectiveness of human spermatozoa. Physical Review Fluids, 2020, 5, .	2.5	14
52	Calcium oscillations induced by ATP in human umbilical cord smooth muscle cells. Journal of Cellular Physiology, 2007, 213, 79-87.	4.1	13
53	Techniques for Imaging Ca²⁺ Signaling in Human Sperm. Journal of Visualized Experiments, 2010, , .	0.3	11
54	Blast injury to the perineum. Journal of the Royal Army Medical Corps, 2013, 159, i1-i3.	0.8	10

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55	â€˜Genes versus childrenâ€™: if the goal is parenthood, are we using the optimal approach?. Human Reproduction, 2020, 35, 5-11.	0.9	10
56	Sperm DNA fragmentation in miscarriage â€“ a promising diagnostic, or a test too far?. Reproductive BioMedicine Online, 2017, 34, 3-4.	2.4	9
57	Sperm selection for assisted reproduction by prior hyaluronan binding: the HABSelect RCT. Efficacy and Mechanism Evaluation, 2019, 6, 1-80.	0.7	9
58	Temporal design for additive manufacturing. International Journal of Advanced Manufacturing Technology, 2020, 106, 3849-3857.	3.0	8
59	Replacing IUI with IVF for initial treatment of unexplained infertility: why this NICE recommendation is cause for concern. Human Fertility, 2016, 19, 80-84.	1.7	7
60	Zona Pellucida and Progesteroneâ€Induced Ca²⁺ Signaling and Acrosome Reaction in Human Spermatozoa. Journal of Andrology, 2002, 23, 306-315.	2.0	6
61	On-Demand Electrical Switching of Antibodyâ€“Antigen Binding on Surfaces. ACS Applied Bio Materials, 2018, 1, 738-747.	4.6	5
62	The analogies between human development and additive manufacture: Expanding the definition of design. Cogent Engineering, 2019, 6, .	2.2	5
63	Understanding the physiology of pre-fertilisation events in the human spermatozoa--a necessary prerequisite to developing rational therapy. Society of Reproduction and Fertility Supplement, 2007, 63, 237-55.	0.2	5
64	Communication between female tract and sperm. Communicative and Integrative Biology, 2009, 2, 82-85.	1.4	4
65	Traumatic andropause after combat injury. BMJ Case Reports, 2015, 2015, bcr2014207924.	0.5	4
66	Physiological and Proteomic Approaches to Understanding Human Sperm Function. , 2007, , 77-97.		2
67	Reply: Development of a novel home sperm test â€“ What are the limitations?. Human Reproduction, 2006, 21, 3030-3031.	0.9	1
68	Complex combined steroid mix of the female tract modulates human sperm. Reproductive Biology, 2021, 21, 100561.	1.9	1
69	DIRECT EVIDENCE OF FUNCTIONAL L-type Ca2+ CHANNELS IN HUMAN SPERMATOZOA. Biochemical Society Transactions, 2000, 28, A392-A392.	3.4	0
70	Reply: Development of a novel home sperm test - temperature range. Human Reproduction, 2006, 21, 3028-3029.	0.9	0
71	Heads and Tails: Requirements for Informative and Robust Computational Measures of Sperm Motility. , 2021, , 135-150.		0
72	Direct inhibition of TRPC3 by polyunsaturated fatty acids in MCFâ€7 breast cancer cells. FASEB Journal, 2006, 20, A329.	0.5	0