

# Jackson C Kirkman-Brown

## List of Publications by Year in descending order

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Version: 2024-02-01

71  
papers

3,997  
citations

147726

31  
h-index

123376

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. <i>Human Reproduction</i> , 2012, 27, 2908-2917.	0.4	500
2	Mammalian Sperm Motility: Observation and Theory. <i>Annual Review of Fluid Mechanics</i> , 2011, 43, 501-528.	10.8	301
3	Male Oxidative Stress Infertility (MOSI): Proposed Terminology and Clinical Practice Guidelines for Management of Idiopathic Male Infertility. <i>World Journal of Men's Health</i> , 2019, 37, 296.	1.7	256
4	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.	3.3	247
5	Human sperm accumulation near surfaces: a simulation study. <i>Journal of Fluid Mechanics</i> , 2009, 621, 289-320.	1.4	186
6	Ca <sup>2+</sup> -stores in sperm: their identities and functions. <i>Reproduction</i> , 2009, 138, 425-437.	1.1	181
7	Bend propagation in the flagella of migrating human sperm, and its modulation by viscosity. <i>Cytoskeleton</i> , 2009, 66, 220-236.	4.4	181
8	A survey of assisted reproductive technology births and imprinting disorders. <i>Human Reproduction</i> , 2007, 22, 3237-3240.	0.4	157
9	The barriers to the progression of additive manufacture: Perspectives from UK industry. <i>International Journal of Production Economics</i> , 2018, 198, 104-118.	5.1	157
10	Ca <sup>2+</sup> Signals Generated by CatSper and Ca <sup>2+</sup> Stores Regulate Different Behaviors in Human Sperm*. <i>Journal of Biological Chemistry</i> , 2013, 288, 6248-6258.	1.6	134
11	Sperm motility: is viscosity fundamental to progress?. <i>Molecular Human Reproduction</i> , 2011, 17, 539-544.	1.3	95
12	Nonlinear instability in flagellar dynamics: a novel modulation mechanism in sperm migration?. <i>Journal of the Royal Society Interface</i> , 2010, 7, 1689-1697.	1.5	94
13	Physiological, hyaluronan-selected intracytoplasmic sperm injection for infertility treatment (HABSelect): a parallel, two-group, randomised trial. <i>Lancet, The</i> , 2019, 393, 416-422.	6.3	85
14	Biphasic Elevation of [Ca <sup>2+</sup> ] <sub>i</sub> in Individual Human Spermatozoa Exposed to Progesterone. <i>Developmental Biology</i> , 2000, 222, 326-335.	0.9	77
15	Counting sperm does not add up any more: time for a new equation?. <i>Reproduction</i> , 2007, 133, 675-684.	1.1	75
16	Coarse-Graining the Fluid Flow around a Human Sperm. <i>Physical Review Letters</i> , 2017, 118, 124501.	2.9	67
17	Patterns of [Ca <sup>2+</sup> ] <sub>i</sub> mobilization and cell response in human spermatozoa exposed to progesterone. <i>Developmental Biology</i> , 2007, 302, 324-332.	0.9	54
18	Encoding of progesterone stimulus intensity by intracellular [Ca <sup>2+</sup> ] ([Ca <sup>2+</sup> ] <sub>i</sub> ) in human spermatozoa. <i>Biochemical Journal</i> , 2003, 372, 407-417.	1.7	52

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19	Pregnancy and perinatal outcomes after assisted reproduction: a comparative study. <i>Irish Journal of Medical Science</i> , 2008, 177, 233-241.	0.8	46
20	Slow calcium oscillations in human spermatozoa. <i>Biochemical Journal</i> , 2004, 378, 827-832.	1.7	44
21	Mobilisation of Ca <sup>2+</sup> 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.	1.2	44
22	Modelling a tethered mammalian sperm cell undergoing hyperactivation. <i>Journal of Theoretical Biology</i> , 2012, 309, 1-10.	0.8	42
23	Development of a novel home sperm test. <i>Human Reproduction</i> , 2006, 21, 145-149.	0.4	41
24	CASA: tracking the past and plotting the future. <i>Reproduction, Fertility and Development</i> , 2018, 30, 867.	0.1	41
25	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.	1.9	41
26	Nifedipine reveals the existence of two discrete components of the progesterone-induced [Ca <sup>2+</sup> ] <sub>i</sub> transient in human spermatozoa. <i>Developmental Biology</i> , 2003, 259, 71-82.	0.9	38
27	2-APB-potentiated channels amplify CatSper-induced Ca <sup>2+</sup> signals in human sperm. <i>Biochemical Journal</i> , 2012, 448, 189-200.	1.7	38
28	Rapid sperm capture: high-throughput flagellar waveform analysis. <i>Human Reproduction</i> , 2019, 34, 1173-1185.	0.4	38
29	Zona pellucida and progesterone-induced Ca <sup>2+</sup> signaling and acrosome reaction in human spermatozoa. <i>Journal of Andrology</i> , 2002, 23, 306-15.	2.0	37
30	Human sperm swimming in a high viscosity mucus analogue. <i>Journal of Theoretical Biology</i> , 2018, 446, 1-10.	0.8	36
31	Multi-state, 4-aminopyridine-sensitive ion channels in human spermatozoa. <i>Developmental Biology</i> , 2004, 274, 308-317.	0.9	34
32	Kinetics of the Progesterone-Induced Acrosome Reaction and Its Relation to Intracellular Calcium Responses in Individual Human Spermatozoa. <i>Biology of Reproduction</i> , 2006, 75, 933-939.	1.2	33
33	Non-Genomic Steroid Actions in Human Spermatozoa. <i>Seminars in Reproductive Medicine</i> , 2007, 25, 208-220.	0.5	33
34	Evaluation of a disposable plastic Neubauer counting chamber for semen analysis. <i>Fertility and Sterility</i> , 2009, 91, 627-631.	0.5	32
35	The Steroid Metabolome in the Isolated Ovarian Follicle and Its Response to Androgen Exposure and Antagonism. <i>Endocrinology</i> , 2017, 158, 1474-1485.	1.4	32
36	Coordinated transcriptional regulation patterns associated with infertility phenotypes in men. <i>Journal of Medical Genetics</i> , 2007, 44, 498-508.	1.5	30

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37	How to attract a sperm. <i>Nature Cell Biology</i> , 2003, 5, 93-95.	4.6	26
38	The mechanics of hyperactivation in adhered human sperm. <i>Royal Society Open Science</i> , 2014, 1, 140230.	1.1	26
39	Patch-clamp "mapping" of ion channel activity in human sperm reveals regionalisation and co-localisation into mixed clusters. <i>Journal of Cellular Physiology</i> , 2007, 213, 801-808.	2.0	23
40	Glyph-Based Video Visualization for Semen Analysis. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2015, 21, 980-993.	2.9	23
41	Hyaluronic Acid Binding Sperm Selection for assisted reproduction treatment (HABSelect): study protocol for a multicentre randomised controlled trial. <i>BMJ Open</i> , 2016, 6, e012609.	0.8	22
42	Vitamin D and assisted reproductive treatment outcome: a prospective cohort study. <i>Reproductive Health</i> , 2019, 16, 106.	1.2	22
43	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.	1.3	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. <i>Human Reproduction</i> , 2022, 37, 1106-1125.	0.4	21
45	Evolving minimum standards in responsible international sperm donor offspring quota. <i>Reproductive BioMedicine Online</i> , 2015, 30, 568-580.	1.1	17
46	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.	0.7	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. <i>Fertility and Sterility</i> , 2022, 117, 252-257.	0.5	17
48	Comment on the Article by J. Elgeti, U. B. Kaupp, and G. Gompper: Hydrodynamics of Sperm Cells Near Surfaces. <i>Biophysical Journal</i> , 2011, 100, 2318-2320.	0.2	16
49	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.	1.0	16
50	Good practice recommendations for information provision for those involved in reproductive donation. <i>Human Reproduction Open</i> , 2022, 2022, hoac001.	2.3	16
51	Doing more with less: The flagellar end piece enhances the propulsive effectiveness of human spermatozoa. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	14
52	Calcium oscillations induced by ATP in human umbilical cord smooth muscle cells. <i>Journal of Cellular Physiology</i> , 2007, 213, 79-87.	2.0	13
53	Techniques for Imaging $Ca^{2+}$ Signaling in Human Sperm. <i>Journal of Visualized Experiments</i> , 2010, .	0.2	11
54	Blast injury to the perineum. <i>Journal of the Royal Army Medical Corps</i> , 2013, 159, i1-i3.	0.8	10

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55	“Genes versus children”: if the goal is parenthood, are we using the optimal approach?. Human Reproduction, 2020, 35, 5-11.	0.4	10
56	Sperm DNA fragmentation in miscarriage “ a promising diagnostic, or a test too far?. Reproductive BioMedicine Online, 2017, 34, 3-4.	1.1	9
57	Sperm selection for assisted reproduction by prior hyaluronan binding: the HABSelect RCT. Efficacy and Mechanism Evaluation, 2019, 6, 1-80.	0.9	9
58	Temporal design for additive manufacturing. International Journal of Advanced Manufacturing Technology, 2020, 106, 3849-3857.	1.5	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.	0.7	7
60	On-Demand Electrical Switching of Antibody“Antigen Binding on Surfaces. ACS Applied Bio Materials, 2018, 1, 738-747.	2.3	5
61	The analogies between human development and additive manufacture: Expanding the definition of design. Cogent Engineering, 2019, 6, .	1.1	5
62	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
63	Communication between female tract and sperm. Communicative and Integrative Biology, 2009, 2, 82-85.	0.6	4
64	Traumatic andropause after combat injury. BMJ Case Reports, 2015, 2015, bcr2014207924.	0.2	4
65	Physiological and Proteomic Approaches to Understanding Human Sperm Function. , 2007, , 77-97.		2
66	Reply: Development of a novel home sperm test “ What are the limitations?. Human Reproduction, 2006, 21, 3030-3031.	0.4	1
67	Complex combined steroid mix of the female tract modulates human sperm. Reproductive Biology, 2021, 21, 100561.	0.9	1
68	DIRECT EVIDENCE OF FUNCTIONAL L-type Ca <sup>2+</sup> CHANNELS IN HUMAN SPERMATOZOA. Biochemical Society Transactions, 2000, 28, A392-A392.	1.6	0
69	Reply: Development of a novel home sperm test - temperature range. Human Reproduction, 2006, 21, 3028-3029.	0.4	0
70	Heads and Tails: Requirements for Informative and Robust Computational Measures of Sperm Motility. , 2021, , 135-150.		0
71	Direct inhibition of TRPC3 by polyunsaturated fatty acids in MCF“7 breast cancer cells. FASEB Journal, 2006, 20, A329.	0.2	0