

R John Aitken

List of Publications by Year in descending order

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579
papers

45,825
citations

1043

113
h-index

2894

190
g-index

624
all docs

624
docs citations

624
times ranked

22507
citing authors

#	ARTICLE	IF	CITATIONS
1	Safe handling of nanotechnology. <i>Nature</i> , 2006, 444, 267-269.	13.7	1,352
2	Generation of Reactive Oxygen Species, Lipid Peroxidation, and Human Sperm Function. <i>Biology of Reproduction</i> , 1989, 41, 183-197.	1.2	1,016
3	Cellular basis of defective sperm function and its association with the genesis of reactive oxygen species by human spermatozoa. <i>Reproduction</i> , 1987, 81, 459-469.	1.1	877
4	Significance of Reactive Oxygen Species and Antioxidants in Defining the Efficacy of Sperm Preparation Techniques. <i>Journal of Andrology</i> , 1988, 9, 367-376.	2.0	697
5	Relative Impact of Oxidative Stress on the Functional Competence and Genomic Integrity of Human Spermatozoa1. <i>Biology of Reproduction</i> , 1998, 59, 1037-1046.	1.2	661
6	Polyunsaturated Fatty Acids in Male and Female Reproduction1. <i>Biology of Reproduction</i> , 2007, 77, 190-201.	1.2	629
7	Antioxidant Systems and Oxidative Stress in the Testes. <i>Oxidative Medicine and Cellular Longevity</i> , 2008, 1, 15-24.	1.9	570
8	Oxidative stress, DNA damage and the Y chromosome. <i>Reproduction</i> , 2001, 122, 497-506.	1.1	563
9	Free radicals, lipid peroxidation and sperm function. <i>Reproduction, Fertility and Development</i> , 1995, 7, 659.	0.1	536
10	Manufacture and use of nanomaterials: current status in the UK and global trends. <i>Occupational Medicine</i> , 2006, 56, 300-306.	0.8	535
11	Significance of Mitochondrial Reactive Oxygen Species in the Generation of Oxidative Stress in Spermatozoa. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2008, 93, 3199-3207.	1.8	534
12	Reactive oxygen species generation and human spermatozoa: The balance of benefit and risk. <i>BioEssays</i> , 1994, 16, 259-267.	1.2	486
13	On the possible origins of DNA damage in human spermatozoa. <i>Molecular Human Reproduction</i> , 2010, 16, 3-13.	1.3	475
14	DNA damage to spermatozoa has impacts on fertilization and pregnancy. <i>Cell and Tissue Research</i> , 2005, 322, 33-41.	1.5	429
15	Oxidative stress and male reproductive health. <i>Asian Journal of Andrology</i> , 2014, 16, 31.	0.8	427
16	The role of sperm oxidative stress in male infertility and the significance of oral antioxidant therapy. <i>Human Reproduction</i> , 2011, 26, 1628-1640.	0.4	414
17	Antioxidant strategies in the epididymis. <i>Molecular and Cellular Endocrinology</i> , 2004, 216, 31-39.	1.6	413
18	Oxidative stress, sperm survival and fertility control. <i>Molecular and Cellular Endocrinology</i> , 2006, 250, 66-69.	1.6	411

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19	Reactive oxygen species as mediators of sperm capacitation and pathological damage. <i>Molecular Reproduction and Development</i> , 2017, 84, 1039-1052.	1.0	394
20	Cryopreservation-induced human sperm DNA damage is predominantly mediated by oxidative stress rather than apoptosis. <i>Human Reproduction</i> , 2009, 24, 2061-2070.	0.4	370
21	Origins and consequences of DNA damage in male germ cells. <i>Reproductive BioMedicine Online</i> , 2007, 14, 727-733.	1.1	368
22	Prospective analysis of sperm-oocyte fusion and reactive oxygen species generation as criteria for the diagnosis of infertility. <i>American Journal of Obstetrics and Gynecology</i> , 1991, 164, 542-551.	0.7	367
23	DNA integrity in human spermatozoa: relationships with semen quality. <i>Journal of Andrology</i> , 2000, 21, 33-44.	2.0	365
24	DNA Damage in Human Spermatozoa Is Highly Correlated with the Efficiency of Chromatin Remodeling and the Formation of 8-Hydroxy-2-Deoxyguanosine, a Marker of Oxidative Stress ¹ . <i>Biology of Reproduction</i> , 2009, 81, 517-524.	1.2	357
25	Analysis of the impact of intracellular reactive oxygen species generation on the structural and functional integrity of human spermatozoa: lipid peroxidation, DNA fragmentation and effectiveness of antioxidants. <i>Human Reproduction</i> , 1998, 13, 1429-1436.	0.4	354
26	Analysis of the relationships between oxidative stress, DNA damage and sperm vitality in a patient population: development of diagnostic criteria. <i>Human Reproduction</i> , 2010, 25, 2415-2426.	0.4	353
27	Oxidative damage to DNA in human spermatozoa does not preclude pronucleus formation at intracytoplasmic sperm injection. <i>Human Reproduction</i> , 1998, 13, 1864-1871.	0.4	345
28	The Amoroso Lecture The human spermatozoon - a cell in crisis?. <i>Reproduction</i> , 1999, 115, 1-7.	1.1	344
29	Mobile Phone Radiation Induces Reactive Oxygen Species Production and DNA Damage in Human Spermatozoa In Vitro. <i>PLoS ONE</i> , 2009, 4, e6446.	1.1	338
30	Biological and clinical significance of DNA damage in the male germ line. <i>Journal of Developmental and Physical Disabilities</i> , 2009, 32, 46-56.	3.6	333
31	Seeds of concern. <i>Nature</i> , 2004, 432, 48-52.	13.7	319
32	Analysis of the Relationship Between Defective Sperm Function and the Generation of Reactive Oxygen Species in Cases of Oligozoospermia. <i>Journal of Andrology</i> , 1989, 10, 214-220.	2.0	317
33	Reactive Oxygen Species and Sperm Function "In Sickness and In Health. <i>Journal of Andrology</i> , 2012, 33, 1096-1106.	2.0	307
34	Redox Regulation of Human Sperm Function: From the Physiological Control of Sperm Capacitation to the Etiology of Infertility and DNA Damage in the Germ Line. <i>Antioxidants and Redox Signaling</i> , 2011, 14, 367-381.	2.5	295
35	Use of a xanthine oxidase free radical generating system to investigate the cytotoxic effects of reactive oxygen species on human spermatozoa. <i>Reproduction</i> , 1993, 97, 441-450.	1.1	288
36	Causes and consequences of oxidative stress in spermatozoa. <i>Reproduction, Fertility and Development</i> , 2016, 28, 1.	0.1	277

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37	Analysis of lipid peroxidation mechanisms in human spermatozoa. <i>Molecular Reproduction and Development</i> , 1993, 35, 302-315.	1.0	273
38	Relationship between iron-catalysed lipid peroxidation potential and human sperm function. <i>Reproduction</i> , 1993, 98, 257-265.	1.1	272
39	Apoptosis and DNA damage in human spermatozoa. <i>Asian Journal of Andrology</i> , 2011, 13, 36-42.	0.8	269
40	Reactive oxygen species generation by human spermatozoa is induced by exogenous NADPH and inhibited by the flavoprotein inhibitors diphenylene iodonium and quinacrine. <i>Molecular Reproduction and Development</i> , 1997, 47, 468-482.	1.0	268
41	Analysis of the relationship between reactive oxygen species production and leucocyte infiltration in fractions of human semen separated on Percoll gradients. <i>Journal of Developmental and Physical Disabilities</i> , 1990, 13, 433-451.	3.6	249
42	Oxidative stress in the male germ line and its role in the aetiology of male infertility and genetic disease. <i>Reproductive BioMedicine Online</i> , 2003, 7, 65-70.	1.1	246
43	Differential contribution of leucocytes and spermatozoa to the generation of reactive oxygen species in the ejaculates of oligozoospermic patients and fertile donors. <i>Reproduction</i> , 1992, 94, 451-462.	1.1	243
44	A free radical theory of male infertility. <i>Reproduction, Fertility and Development</i> , 1994, 6, 19.	0.1	235
45	Assessing exposure to airborne nanomaterials: Current abilities and future requirements. <i>Nanotoxicology</i> , 2007, 1, 26-41.	1.6	235
46	Impact of radio frequency electromagnetic radiation on DNA integrity in the male germline. <i>Journal of Developmental and Physical Disabilities</i> , 2005, 28, 171-179.	3.6	233
47	The impact of sperm DNA damage in assisted conception and beyond: recent advances in diagnosis and treatment. <i>Reproductive BioMedicine Online</i> , 2013, 27, 325-337.	1.1	228
48	Sperm function tests and fertility. <i>Journal of Developmental and Physical Disabilities</i> , 2006, 29, 69-75.	3.6	227
49	Oxidative stress and male reproductive biology. <i>Reproduction, Fertility and Development</i> , 2004, 16, 581.	0.1	224
50	Reactive oxygen species and human spermatozoa: Analysis of the cellular mechanisms involved in luminol- and lucigenin-dependent chemiluminescence. <i>Journal of Cellular Physiology</i> , 1992, 151, 466-477.	2.0	222
51	An analysis of sperm function in cases of unexplained infertility: conventional criteria, movement characteristics, and fertilizing capacity. <i>Fertility and Sterility</i> , 1982, 38, 212-221.	0.5	221
52	Review of carbon nanotubes toxicity and exposure—Appraisal of human health risk assessment based on open literature. <i>Critical Reviews in Toxicology</i> , 2010, 40, 759-790.	1.9	220
53	Andrology: Analysis of sperm movement in relation to the oxidative stress created by leukocytes in washed sperm preparations and seminal plasma. <i>Human Reproduction</i> , 1995, 10, 2061-2071.	0.4	201
54	Electrophilic Aldehydes Generated by Sperm Metabolism Activate Mitochondrial Reactive Oxygen Species Generation and Apoptosis by Targeting Succinate Dehydrogenase. <i>Journal of Biological Chemistry</i> , 2012, 287, 33048-33060.	1.6	201

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55	Chromosome abnormalities in human embryos after in vitro fertilization. <i>Nature</i> , 1983, 303, 336-338.	13.7	198
56	Phosphoinositide 3-kinase signalling pathway involvement in a truncated apoptotic cascade associated with motility loss and oxidative DNA damage in human spermatozoa. <i>Biochemical Journal</i> , 2011, 436, 687-698.	1.7	196
57	Chemical pollution: A growing peril and potential catastrophic risk to humanity. <i>Environment International</i> , 2021, 156, 106616.	4.8	193
58	Development of an image analysis system to monitor the retention of residual cytoplasm by human spermatozoa: correlation with biochemical markers of the cytoplasmic space, oxidative stress, and sperm function. <i>Journal of Andrology</i> , 1996, 17, 276-87.	2.0	191
59	Tyrosine phosphorylation activates surface chaperones facilitating sperm-zona recognition. <i>Journal of Cell Science</i> , 2004, 117, 3645-3657.	1.2	189
60	Oxidative stress and ageing of the post-ovulatory oocyte. <i>Reproduction</i> , 2013, 146, R217-R227.	1.1	189
61	Relationship between calcium, cyclic AMP, ATP, and intracellular pH and the capacity of hamster spermatozoa to express hyperactivated motility. <i>Gamete Research</i> , 1989, 22, 163-177.	1.7	188
62	Evaluation of a spectrophotometric assay for the measurement of malondialdehyde and 4-hydroxyalkenals in human spermatozoa: relationships with semen quality and sperm function. <i>Journal of Developmental and Physical Disabilities</i> , 2002, 21, 81-94.	3.6	186
63	Molecular mechanisms regulating human sperm function. <i>Molecular Human Reproduction</i> , 1997, 3, 169-173.	1.3	185
64	Relationship between the movement characteristics of human spermatozoa and their ability to penetrate cervical mucus and zona-free hamster oocytes. <i>Reproduction</i> , 1985, 73, 441-449.	1.1	182
65	Development of a novel electrophoretic system for the isolation of human spermatozoa. <i>Human Reproduction</i> , 2005, 20, 2261-2270.	0.4	181
66	Andrology: Seminal leukocytes: passengers, terrorists or good Samaritans?. <i>Human Reproduction</i> , 1995, 10, 1736-1739.	0.4	179
67	Protective effect of antioxidants on the impairment of sperm motility by activated polymorphonuclear leukocytes. <i>Fertility and Sterility</i> , 1996, 65, 411-419.	0.5	179
68	Relationships between biochemical markers for residual sperm cytoplasm, reactive oxygen species generation, and the presence of leukocytes and precursor germ cells in human sperm suspensions. <i>Molecular Reproduction and Development</i> , 1994, 39, 268-279.	1.0	178
69	Beneficial cardiovascular effects of reducing exposure to particulate air pollution with a simple facemask. <i>Particle and Fibre Toxicology</i> , 2009, 6, 8.	2.8	178
70	Analysis of lipid peroxidation in human spermatozoa using BODIPY C11. <i>Molecular Human Reproduction</i> , 2007, 13, 203-211.	1.3	177
71	Identification of gene products present in Triton X-100 soluble and insoluble fractions of human spermatozoa lysates using LC-MS/MS analysis. <i>Proteomics - Clinical Applications</i> , 2007, 1, 524-532.	0.8	176
72	Oxidative stress, placental ageing-related pathologies and adverse pregnancy outcomes. <i>American Journal of Reproductive Immunology</i> , 2017, 77, e12653.	1.2	174

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73	The TUNEL assay consistently underestimates DNA damage in human spermatozoa and is influenced by DNA compaction and cell vitality: development of an improved methodology. <i>Journal of Developmental and Physical Disabilities</i> , 2011, 34, 2-13.	3.6	171
74	Sperm capacitation: a distant landscape glimpsed but unexplored. <i>Molecular Human Reproduction</i> , 2013, 19, 785-793.	1.3	171
75	The Paradoxical Relationship Between Stallion Fertility and Oxidative Stress ¹ . <i>Biology of Reproduction</i> , 2014, 91, 77.	1.2	171
76	Identification of SRC as a key PKA-stimulated tyrosine kinase involved in the capacitation-associated hyperactivation of murine spermatozoa. <i>Journal of Cell Science</i> , 2006, 119, 3182-3192.	1.2	170
77	Iatrogenic DNA damage induced in human spermatozoa during sperm preparation: protective significance of seminal plasma. <i>Molecular Human Reproduction</i> , 1998, 4, 439-445.	1.3	168
78	Stimulation of mitochondrial reactive oxygen species production by unesterified, unsaturated fatty acids in defective human spermatozoa. <i>Free Radical Biology and Medicine</i> , 2010, 48, 112-119.	1.3	168
79	Cis-Unsaturated Fatty Acids Stimulate Reactive Oxygen Species Generation and Lipid Peroxidation in Human Spermatozoa. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2006, 91, 4154-4163.	1.8	166
80	Causes and consequences of apoptosis in spermatozoa; contributions to infertility and impacts on development. <i>International Journal of Developmental Biology</i> , 2013, 57, 265-272.	0.3	164
81	Proteomic changes in mammalian spermatozoa during epididymal maturation. <i>Asian Journal of Andrology</i> , 2007, 9, 554-564.	0.8	160
82	Oxidative stress and human spermatozoa: diagnostic and functional significance of aldehydes generated as a result of lipid peroxidation. <i>Molecular Human Reproduction</i> , 2015, 21, 502-515.	1.3	160
83	The correlates of fertilizing capacity in normal fertile men*. <i>Fertility and Sterility</i> , 1982, 38, 68-76.	0.5	155
84	Analysis of Human Sperm Function Following Exposure to the Ionophore A23187. <i>Journal of Andrology</i> , 1984, 5, 321-329.	2.0	155
85	The importance of redox regulated pathways in sperm cell biology. <i>Molecular and Cellular Endocrinology</i> , 2004, 216, 47-54.	1.6	155
86	Reactive oxygen species in spermatozoa: methods for monitoring and significance for the origins of genetic disease and infertility. <i>Reproductive Biology and Endocrinology</i> , 2005, 3, 67.	1.4	152
87	Review of fullerene toxicity and exposure – Appraisal of a human health risk assessment, based on open literature. <i>Regulatory Toxicology and Pharmacology</i> , 2010, 58, 455-473.	1.3	152
88	The mouse sperm proteome characterized via IPG strip prefractionation and LC-MS/MS identification. <i>Proteomics</i> , 2008, 8, 1720-1730.	1.3	149
89	Impact of oxidative stress on male and female germ cells: implications for fertility. <i>Reproduction</i> , 2020, 159, R189-R201.	1.1	149
90	Apoptosis in the germ line. <i>Reproduction</i> , 2011, 141, 139-150.	1.1	148

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91	Recombinant Human Zona Pellucida Protein ZP3 Produced by Chinese Hamster Ovary Cells Induces the Human Sperm Acrosome Reaction and Promotes Sperm-Egg Fusion. <i>Biology of Reproduction</i> , 1994, 51, 607-617.	1.2	147
92	Sperm Motility Is Lost In Vitro as a Consequence of Mitochondrial Free Radical Production and the Generation of Electrophilic Aldehydes but Can Be Significantly Rescued by the Presence of Nucleophilic Thiols ¹ . <i>Biology of Reproduction</i> , 2012, 87, 110.	1.2	146
93	Are sperm capacitation and apoptosis the opposite ends of a continuum driven by oxidative stress?. <i>Asian Journal of Andrology</i> , 2015, 17, 633.	0.8	140
94	Role of poor semen quality for current infertility and future fertility rates - lessons from the clinic and current population studies. <i>Journal of Developmental and Physical Disabilities</i> , 2006, 29, 105-108.	3.6	139
95	Definitive Evidence for the Nonmitochondrial Production of Superoxide Anion by Human Spermatozoa. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2006, 91, 1968-1975.	1.8	139
96	The effect of iron and iron chelators on the in-vitro block to development of the mouse preimplantation embryo: BAT6 a new medium for improved culture of mouse embryos in vitro. <i>Human Reproduction</i> , 1990, 5, 997-1003.	0.4	138
97	Stimulation of oxidant generation by human sperm suspensions using phorbol esters and formyl peptides: relationships with motility and fertilization in vitro. <i>Fertility and Sterility</i> , 1994, 62, 599-605.	0.5	135
98	Quantitative analysis of gene-specific DNA damage in human spermatozoa. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2003, 529, 21-34.	0.4	135
99	The source and significance of DNA damage in human spermatozoa; a commentary on diagnostic strategies and straw man fallacies. <i>Molecular Human Reproduction</i> , 2013, 19, 475-485.	1.3	133
100	A Prospective Study of the Relationship Between Semen Quality and Fertility in Cases of Unexplained Infertility. <i>Journal of Andrology</i> , 1984, 5, 297-303.	2.0	132
101	Nano-silver " feasibility and challenges for human health risk assessment based on open literature. <i>Nanotoxicology</i> , 2010, 4, 284-295.	1.6	132
102	The presence of a truncated base excision repair pathway in human spermatozoa, Mediated by OGG1. <i>Journal of Cell Science</i> , 2013, 126, 1488-97.	1.2	131
103	A comparative study of oxidative DNA damage in mammalian spermatozoa. <i>Molecular Reproduction and Development</i> , 2005, 71, 77-87.	1.0	129
104	The Identification of Mouse Sperm-Surface-Associated Proteins and Characterization of Their Ability to Act as Decapacitation Factors ¹ . <i>Biology of Reproduction</i> , 2006, 74, 275-287.	1.2	128
105	Melatonin Prevents Postovulatory Oocyte Aging in the Mouse and Extends the Window for Optimal Fertilization In Vitro ¹ . <i>Biology of Reproduction</i> , 2013, 88, 67.	1.2	128
106	Predicting the fertilizing potential of human sperm suspensions in vitro: importance of sperm morphology and leukocyte contamination. <i>Fertility and Sterility</i> , 1995, 63, 1293-1300.	0.5	127
107	Superoxide dismutase in human sperm suspensions: Relationship with cellular composition, oxidative stress, and sperm function. <i>Free Radical Biology and Medicine</i> , 1996, 21, 495-504.	1.3	127
108	Comparative analysis of the ability of precursor germ cells and epididymal spermatozoa to generate reactive oxygen metabolites. , 1997, 277, 390-400.		124

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109	Human spermatozoa: The future of sex. <i>Nature</i> , 2002, 415, 963-963.	13.7	123
110	Adjuncts in the IVF laboratory: where is the evidence for "add-on" interventions?. <i>Human Reproduction</i> , 2017, 32, 485-491.	0.4	123
111	Transgenerational inheritance: how impacts to the epigenetic and genetic information of parents affect offspring health. <i>Human Reproduction Update</i> , 2019, 25, 519-541.	5.2	123
112	Redox activity associated with the maturation and capacitation of mammalian spermatozoa. <i>Free Radical Biology and Medicine</i> , 2004, 36, 994-1010.	1.3	121
113	The Molecular Chaperone HSPA2 Plays a Key Role in Regulating the Expression of Sperm Surface Receptors That Mediate Sperm-Egg Recognition. <i>PLoS ONE</i> , 2012, 7, e50851.	1.1	121
114	Chromosome studies in human in vitro fertilization. <i>Human Genetics</i> , 1986, 72, 333-339.	1.8	118
115	The extragenomic action of progesterone on human spermatozoa is influenced by redox regulated changes in tyrosine phosphorylation during capacitation. <i>Molecular and Cellular Endocrinology</i> , 1996, 117, 83-93.	1.6	117
116	The Importance of Oxidative Stress in Determining the Functionality of Mammalian Spermatozoa: A Two-Edged Sword. <i>Antioxidants</i> , 2020, 9, 111.	2.2	117
117	Head and flagella subcompartmental proteomic analysis of human spermatozoa. <i>Proteomics</i> , 2013, 13, 61-74.	1.3	115
118	Identification of post-translational modifications that occur during sperm maturation using difference in two-dimensional gel electrophoresis. <i>Proteomics</i> , 2005, 5, 1003-1012.	1.3	112
119	Antioxidant Systems and Oxidative Stress in the Testes. <i>Advances in Experimental Medicine and Biology</i> , 2009, 636, 154-171.	0.8	112
120	Leukocytic infiltration into the human ejaculate and its association with semen quality, oxidative stress, and sperm function. <i>Journal of Andrology</i> , 1994, 15, 343-52.	2.0	112
121	The role of proteomics in understanding sperm cell biology. <i>Journal of Developmental and Physical Disabilities</i> , 2008, 31, 295-302.	3.6	111
122	The Human Spermatozoon "Not Waving but Drowning". <i>Advances in Experimental Medicine and Biology</i> , 2003, 518, 85-98.	0.8	110
123	The role of molecular chaperones in spermatogenesis and the post-testicular maturation of mammalian spermatozoa. <i>Human Reproduction Update</i> , 2012, 18, 420-435.	5.2	109
124	Analysis of Reactive Oxygen Species Generating Systems in Rat Epididymal Spermatozoa1. <i>Biology of Reproduction</i> , 2001, 65, 1102-1113.	1.2	104
125	The rat sperm proteome characterized via IPG strip prefractionation and LC-MS/MS identification. <i>Proteomics</i> , 2008, 8, 2312-2321.	1.3	103
126	Integrating New Tests of Sperm Genetic Integrity into Semen Analysis: Breakout Group Discussion. <i>Advances in Experimental Medicine and Biology</i> , 2003, 518, 253-268.	0.8	103

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127	First recorded pregnancy and normal birth after ICSI using electrophoretically isolated spermatozoa. <i>Human Reproduction</i> , 2007, 22, 197-200.	0.4	102
128	Analysis of the Contraceptive Potential of Antibodies against Native and Deglycosylated Porcine ZP3 in Vivo and in Vitro ¹ . <i>Biology of Reproduction</i> , 1992, 46, 523-534.	1.2	101
129	Role of environmental factors in timing the onset and progression of puberty. <i>Journal of Developmental and Physical Disabilities</i> , 2006, 29, 286-290.	3.6	101
130	The Chaperonin Containing TCP1 Complex (CCT/TRiC) Is Involved in Mediating Sperm-Oocyte Interaction. <i>Journal of Biological Chemistry</i> , 2011, 286, 36875-36887.	1.6	101
131	Involvement of multimeric protein complexes in mediating the capacitation-dependent binding of human spermatozoa to homologous zonae pellucidae. <i>Developmental Biology</i> , 2011, 356, 460-474.	0.9	100
132	CXCR4/SDF1 interaction inhibits the primordial to primary follicle transition in the neonatal mouse ovary. <i>Developmental Biology</i> , 2006, 293, 449-460.	0.9	99
133	DELAYED IMPLANTATION IN ROE DEER (<i>CAPREOLUS CAPREOLUS</i>). <i>Reproduction</i> , 1974, 39, 225-233.	1.1	98
134	Composition and significance of detergent resistant membranes in mouse spermatozoa. <i>Journal of Cellular Physiology</i> , 2009, 218, 122-134.	2.0	98
135	On methods for the detection of reactive oxygen species generation by human spermatozoa: analysis of the cellular responses to catechol oestrogen, lipid aldehyde, menadione and arachidonic acid. <i>Andrology</i> , 2013, 1, 192-205.	1.9	98
136	The role of free oxygen radicals and sperm function. <i>Journal of Developmental and Physical Disabilities</i> , 1989, 12, 95-97.	3.6	94
137	New insights into the molecular mechanisms of sperm-egg interaction. <i>Cellular and Molecular Life Sciences</i> , 2007, 64, 1805-1823.	2.4	94
138	Analysis of the mechanism by which calcium negatively regulates the tyrosine phosphorylation cascade associated with sperm capacitation. <i>Journal of Cell Science</i> , 2004, 117, 211-222.	1.2	93
139	Localization and Significance of Molecular Chaperones, Heat Shock Protein 1, and Tumor Rejection Antigen gp96 in the Male Reproductive Tract and During Capacitation and Acrosome Reaction ¹ . <i>Biology of Reproduction</i> , 2005, 72, 328-337.	1.2	93
140	Heat exposure induces oxidative stress and DNA damage in the male germ line. <i>Biology of Reproduction</i> , 2018, 98, 593-606.	1.2	91
141	Detection of <i>Ehrlichia platys</i> in dogs in Australia. <i>Australian Veterinary Journal</i> , 2001, 79, 554-558.	0.5	90
142	Prolactin Exerts a Prosurvival Effect on Human Spermatozoa via Mechanisms that Involve the Stimulation of Akt Phosphorylation and Suppression of Caspase Activation and Capacitation. <i>Endocrinology</i> , 2010, 151, 1269-1279.	1.4	90
143	Multiple forms of redox activity in populations of human spermatozoa. <i>Molecular Human Reproduction</i> , 2003, 9, 645-661.	1.3	89
144	The Capacitation-Apoptosis Highway: Oxysterols and Mammalian Sperm Function. <i>Biology of Reproduction</i> , 2011, 85, 9-12.	1.2	89

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145	Tyrosine Phosphorylation of HSP-90 During Mammalian Sperm Capacitation. <i>Biology of Reproduction</i> , 2003, 69, 1801-1807.	1.2	88
146	Prospective controlled trial of an electrophoretic method of sperm preparation for assisted reproduction: comparison with density gradient centrifugation. <i>Human Reproduction</i> , 2008, 23, 2646-2651.	0.4	88
147	The impact of oxidative stress on chaperone-mediated human sperm-egg interaction. <i>Human Reproduction</i> , 2015, 30, 2597-2613.	0.4	88
148	Structure of the O-linked carbohydrate chains of porcine zona pellucida glycoproteins. <i>FEBS Journal</i> , 1994, 221, 491-512.	0.2	87
149	Prediction of the in-vitro fertilization (IVF) potential of human spermatozoa using sperm function tests: the effect of the delay between testing and IVF. <i>Human Reproduction</i> , 1996, 11, 1030-1034.	0.4	87
150	Paternal Obesity, Interventions, and Mechanistic Pathways to Impaired Health in Offspring. <i>Annals of Nutrition and Metabolism</i> , 2014, 64, 231-238.	1.0	86
151	A novel antioxidant formulation designed to treat male infertility associated with oxidative stress: promising preclinical evidence from animal models. <i>Human Reproduction</i> , 2016, 31, 252-262.	0.4	86
152	Impact of estrogenic compounds on DNA integrity in human spermatozoa: Evidence for cross-linking and redox cycling activities. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2008, 641, 1-11.	0.4	85
153	Development of a technique for monitoring the contamination of human semen samples with leukocytes. <i>Fertility and Sterility</i> , 1992, 57, 1317-1325.	0.5	82
154	Investigation of the role of SRC in capacitation-associated tyrosine phosphorylation of human spermatozoa. <i>Molecular Human Reproduction</i> , 2008, 14, 235-243.	1.3	81
155	Proteomic and functional analysis of human sperm detergent resistant membranes. <i>Journal of Cellular Physiology</i> , 2011, 226, 2651-2665.	2.0	81
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