Stephan S Du Plessis

List of Publications by Citations

96 papers	3,387 citations	30 h-index	57 g-index
105 ext. papers	3,995 ext. citations	2.9 avg, IF	5.66 L-index

#	Paper	IF	Citations
96	Effect of oxidative stress on male reproduction. *World Journal of Men?s Health*, **2014**, 32, 1-17	6.8	617
95	The effect of obesity on sperm disorders and male infertility. *Nature Reviews Urology*, **2010**, 7, 153-61	5.5	231
94	Oxidative phosphorylation versus glycolysis: what fuel do spermatozoa use?. *Asian Journal of Andrology*, **2015**, 17, 230-5	2.8	152
93	Contemporary evidence on the physiological role of reactive oxygen species in human sperm function. *Journal of Assisted Reproduction and Genetics*, **2015**, 32, 509-20	3.4	130
92	Obesity: modern mans fertility nemesis. *Asian Journal of Andrology*, **2010**, 12, 480-9	2.8	129
91	Utility of antioxidants during assisted reproductive techniques: an evidence based review. *Reproductive Biology and Endocrinology*, **2014**, 12, 112	5	126
90	Free radicals: their beneficial and detrimental effects on sperm function. *Indian Journal of Experimental Biology*, **2010**, 48, 425-35		116
89	Sperm viability, apoptosis, and intracellular reactive oxygen species levels in human spermatozoa before and after induction of oxidative stress. *Fertility and Sterility*, **2010**, 93, 814-21	4.8	114
88	Morphometric dimensions of the human sperm head depend on the staining method used. *Human Reproduction*, **2010**, 25, 1369-82	5.7	106
87	The in vitro effects of melatonin on human sperm function and its scavenging activities on NO and ROS. *Andrologia*, **2010**, 42, 112-6	2.4	98
86	MiOXSYS: a novel method of measuring oxidation reduction potential in semen and seminal plasma. *Fertility and Sterility*, **2016**, 106, 566-573.e10	4.8	87
85	Marijuana, phytocannabinoids, the endocannabinoid system, and male fertility. *Journal of Assisted Reproduction and Genetics*, **2015**, 32, 1575-88	3.4	86
84	Proteomic analysis of human spermatozoa proteins with oxidative stress. *Reproductive Biology and Endocrinology*, **2013**, 11, 48	5	80
83	Effects of H(2)O(2) exposure on human sperm motility parameters, reactive oxygen species levels and nitric oxide levels. *Andrologia*, **2010**, 42, 206-10	2.4	72
82	Insulin and leptin enhance human sperm motility, acrosome reaction and nitric oxide production. *Asian Journal of Andrology*, **2008**, 10, 799-807	2.8	72
81	Abstinence Time and Its Impact on Basic and Advanced Semen Parameters. *Urology*, **2016**, 94, 102-10	1.6	71
80	An investigation of excess residual cytoplasm in human spermatozoa and its distinction from the cytoplasmic droplet. *Reproductive Biology and Endocrinology*, **2012**, 10, 92	5	70

79	Proteomic analysis of seminal fluid from men exhibiting oxidative stress. *Reproductive Biology and Endocrinology*, **2013**, 11, 85	5	67
78	TNF-alpha and IL-6 affect human sperm function by elevating nitric oxide production. *Reproductive BioMedicine Online*, **2008**, 17, 628-31	4	59
77	Impact of oxidative stress on IVF. *Expert Review of Obstetrics and Gynecology*, **2008**, 3, 539-554		58
76	Proteomics: a subcellular look at spermatozoa. *Reproductive Biology and Endocrinology*, **2011**, 9, 36	5	56
75	Two-dimensional differential in-gel electrophoresis-based proteomics of male gametes in relation to oxidative stress. *Fertility and Sterility*, **2013**, 99, 1216-1226.e2	4.8	50
74	Influence of ejaculation frequency on seminal parameters. *Reproductive Biology and Endocrinology*, **2015**, 13, 47	5	50
73	SARS-CoV-2 and the testis: similarity with other viruses and routes of infection. *Reproductive BioMedicine Online*, **2020**, 40, 763-764	4	49
72	Large volume cryoprotectant-free vitrification: an alternative to conventional cryopreservation for human spermatozoa. *Andrologia*, **2015**, 47, 594-9	2.4	46
71	Present and future fertility preservation strategies for female cancer patients. *Obstetrical and Gynecological Survey*, **2008**, 63, 725-32	2.4	41
70	Are oxidative stress markers associated with unexplained male infertility?. *Andrologia*, **2017**, 49, e12659	2.4	40
69	Effect of acute in vivo sildenafil citrate and in vitro 8-bromo-cGMP treatments on semen parameters and sperm function. *Fertility and Sterility*, **2004**, 81, 1026-33	4.8	40
68	The association between leukocytes and sperm quality is concentration dependent. *Reproductive Biology and Endocrinology*, **2010**, 8, 12	5	32
67	Semen hyperviscosity: causes, consequences, and cures. *Frontiers in Bioscience - Elite*, **2013**, 5, 224-31	1.6	32
66	Cryopreservation/transplantation of ovarian tissue and in vitro maturation of follicles and oocytes: challenges for fertility preservation. *Reproductive Biology and Endocrinology*, **2008**, 6, 47	5	28
65	Current perspectives of CASA applications in diverse mammalian spermatozoa. *Reproduction, Fertility and Development*, **2018**, 30, 875-888	1.8	28
64	The zona pellucida-induced acrosome reaction of human spermatozoa involves extracellular signal-regulated kinase activation. *Andrologia*, **2001**, 33, 337-42	2.4	26
63	In vitro effects of nicotine on human spermatozoa. *Andrologia*, **2014**, 46, 887-92	2.4	23
62	Phosphatidylinositol 3-kinase inhibition enhances human sperm motility and sperm-zona pellucida binding. *Journal of Developmental and Physical Disabilities*, **2004**, 27, 19-26		22

61	The in vitro effects of Mondia whitei on human sperm motility parameters. *Phytotherapy Research*, **2008**, 22, 1272-3	6.7	21
60	Direct nitric oxide measurement in human spermatozoa: flow cytometric analysis using the fluorescent probe, diaminofluorescein. *Journal of Developmental and Physical Disabilities*, **2006**, 29, 564-7		20
59	Male gamete survival at stake: causes and solutions. *Reproductive BioMedicine Online*, **2008**, 17, 866-80	4	16
58	Diabetes mellitus- induction: Effect of different streptozotocin doses on male reproductive parameters. *Acta Histochemica*, **2018**, 120, 103-109	2	14
57	Physically Active Men Show Better Semen Parameters than Their Sedentary Counterparts. *International Journal of Fertility & Sterility*, **2017**, 11, 156-165	1.9	13
56	SARS-COV-2 (Covid-19) and male fertility: Where are we?. *Reproductive Toxicology*, **2021**, 99, 65-70	3.4	12
55	Environmental Exposure of Sperm Sex-Chromosomes: A Gender Selection Technique. *Toxicological Research*, **2017**, 33, 315-323	3.7	11
54	Antioxidant Strategies to Overcome OS in IVF-Embryo Transfer **2013**, 237-262		11
53	Semen as virus reservoir?. *Journal of Assisted Reproduction and Genetics*, **2016**, 33, 1255-6	3.4	10
52	Revisiting the assessment of semen viscosity and its relationship to leucocytospermia. *Andrologia*, **2014**, 46, 837-41	2.4	10
51	Revisiting The Relationship between The Ejaculatory Abstinence Period and Semen Characteristics. *International Journal of Fertility & Sterility*, **2018**, 11, 238-246	1.9	10
50	Short abstinence: A potential strategy for the improvement of sperm quality. *Middle East Fertility Society Journal*, **2018**, 23, 37-43	1.4	10
49	Effects of tumour necrosis factor alpha and interleukin-6 on progesterone and calcium ionophore-induced acrosome reaction. *Journal of Developmental and Physical Disabilities*, **2009**, 32, 274-7		9
48	The in vitro effects of superoxide, some commercially available antioxidants and red palm oil on sperm motility. *Asian Journal of Andrology*, **2009**, 11, 695-702	2.8	9
47	Highly Active Antiretroviral Therapy Alters Sperm Parameters and Testicular Antioxidant Status in Diet-Induced Obese Rats. *Toxicological Research*, **2018**, 34, 41-48	3.7	9
46	Diet-induced obesity alters kinematics of rat spermatozoa. *Asian Pacific Journal of Reproduction*, **2015**, 4, 235-239	1.1	6
45	Cumene hydroperoxide induced changes in oxidation-reduction potential in fresh and frozen seminal ejaculates. *Andrologia*, **2018**, 50, e12796	2.4	6
44	Physiological Role of Reactive Oxygen Species in Sperm Function: A Review **2013**, 69-89		6

43	Comparing the Multi-ZSC one-step standardized swim-up method to the double-wash swim-up method with regard to the effects of sperm separation on morphology, head morphometry, and acrosome reaction inducibility. *Fertility and Sterility*, **2006**, 86, 739-41	4.8	5
42	Modulation of Inflammatory Cytokines and Islet Morphology as Therapeutic Mechanisms of in Streptozotocin-Induced Diabetic Rats. *Toxicological Research*, **2018**, 34, 325-332	3.7	5
41	Impact of Physical Activity and Exercise on Male Reproductive Potential: Semen Alterations **2016**, 101-124		5
40	The Effect of Smoking on Male Infertility **2014**, 19-30		4
39	Ameliorative potentials of quercetin against cotinine-induced toxic effects on human spermatozoa. *Asian Pacific Journal of Reproduction*, **2016**, 5, 193-197	1.1	4
38	The mutagenic effect of tobacco smoke on male fertility. *Environmental Science and Pollution Research*, **2021**, 1	5.1	4
37	Male infertility: A proximate look at the advanced glycation end products. *Reproductive Toxicology*, **2020**, 93, 169-177	3.4	3
36	Oxidative Stress **2012**, 225-235		3
35	The effect of dietary molybdenum and sulphate on the oestrus cycle and ovulation in ewes after manipulation with exogenous progesterone alone or in combination with FSH and LH. *Small Ruminant Research*, **1999**, 33, 63-69	1.7	3
34	The Role of Obesity in ROS Generation and Male Infertility **2012**, 571-590		3
33	Improved sperm motility after 4 h of ejaculatory abstinence: role of accessory sex gland secretions. *Reproduction, Fertility and Development*, **2019**, 31, 1009-1016	1.8	3
32	The Uruguayan semen donor population: A twenty-eight-year retrospective study. *Andrologia*, **2020** , 52, e13502	2.4	3
31	Introducing the 4Ps Model of Transitioning to Distance Learning: A convergent mixed methods study conducted during the COVID-19 pandemic. *PLoS ONE*, **2021**, 16, e0253662	3.7	3
30	Taking a Leap of Faith: A Study of Abruptly Transitioning an Undergraduate Medical Education Program to Distance-Learning Owing to the COVID-19 Pandemic. *JMIR Medical Education*, **2021**, 7, e27010	5	3
29	Physiological Roles of Reactive Oxygen Species (ROS) in the Reproductive System **2017**, 47-64		2
28	A hormonal, physical, and proteomic view of obesity-induced effects on male infertility and possible lifestyle modifications. *Asian Pacific Journal of Reproduction*, **2012**, 1, 161-168	1.1	2
27	The effect of dietary molybdenum and sulphate on sexual activity and plasma progesterone concentrations of ewes. *Small Ruminant Research*, **1999**, 33, 71-76	1.7	2
26	Antioxidant Activities of Aqueous Leave Extract In Blood, Pancreas, and Gonadal Tissues of Diabetic Male Wistar Rats. *Pharmacognosy Research (discontinued)*, **2018**, 10, 31-36	0.7	2

25	Sexually Transmitted Infections and Impact on Male Fertility **2017**, 167-183		2
24	Author Reply. *Urology*, **2016**, 94, 109-10	1.6	2
23	Extrinsic Factors Inducing Oxidative Stress (OS) in Male and Female Reproductive Systems **2017**, 89-105		1
22	Leukocytospermia and Oxidative Stress **2012**, 517-533		1
21	Spermatozoa: A Historical Perspective. *International Journal of Fertility & Sterility*, **2018**, 12, 182-190	1.9	1
20	A retrospective study on sperm banking: a Uruguayan experience. *Jornal Brasileiro De Reproducao Assistida*, **2018**, 22, 82-88	1.7	1
19	Oxidative Stress and Infertility: A Possible Link to Exercise **2016**, 303-315		1
18	Overview of the Male Reproductive System **2016**, 1-17		1
17	The Beneficial Role of in STZ-Induced Reproductive Dysfunction in Male Wistar Rats. *Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy*, **2020**, 13, 4543-4560	3.4	1
16	The Effect of Rooibos (), Honeybush () and () on Testicular Insulin Signalling in Streptozotocin-Induced Diabetes in Wistar Rats. *Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy*, **2021**, 14, 1267-1280	3.4	1
15	The effect of streptozotocin induced diabetes on sperm function: a closer look at AGEs, RAGEs, MAPKs and activation of the apoptotic pathway. *Toxicological Research*, **2021**, 37, 35-46	3.7	1
14	Environmental Insults on Spermatogenesis **2011**, 133-154		1
13	A contemporary view on global fertility, infertility, and assisted reproductive techniques **2022**, 93-120		1
12	Using publicly available transcriptomic data to identify mechanistic and diagnostic biomarkers in azoospermia and overall male infertility.. *Scientific Reports*, **2022**, 12, 2584	4.9	1
11	Re: The Impact of COVID-19 Vaccine on Sperm Quality, Barda S, Laskov I, Grisaru D, et al Int J Gynaecol Obstet. In press. https://doi.org/10.1002/ijgo.14135. *European Urology*, **2022**,	10.2	1
10	Therapeutic Role of Antioxidants (AOX) in the Treatment of Infertility **2017**, 129-150		0
9	Twelve Months Down the Line: do we know Anything more about the Presence of the SARS-CoV-2 in Human Semen?. *Revista Brasileira De Ginecologia E Obstetricia*, **2021**, 43, 339-340	1.1	0
8	Proteomics and Biomarker Identification in Improved Sperm Motility Parameters After 4 h of Ejaculatory Abstinence **2021**, 345-364		0

List of Publications

7	Protocol for developing a core outcome set for male infertility research: an international consensus development study.. *Human Reproduction Open*, **2022**, 2022, hoac014	6.1	0
6	Idiopathic Infertility: Survival and Function of Sperm in the Female Reproductive Tract **2015**, 43-51		
5	Obesity and Male Fertility **2012**, 349-360		
4	Obesity and Male Fertility **2013**, 253-273		
3	BMI and Obesity **2014**, 31-45		
2	Introduction to Reactive Oxygen Species: Emphasizing Their Importance in the Male Reproductive System **2016**, 3-16		
1	Have We Conquered Sperm Morphology Analysis in Different Mammalian Species as Analysed by CASMA? **2021**, 287-301		