

Susan S Suarez

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67
papers

5,943
citations

48
h-index

70
g-index

70
ext. papers

6,527
ext. citations

4.2
avg. IF

6.19
L-index

#	Paper	IF	Citations
67	Control of hyperactivation in sperm. <i>Human Reproduction Update</i> , 2008 , 14, 647-57	15.8	360
66	The "soluble" adenylyl cyclase in sperm mediates multiple signaling events required for fertilization. <i>Developmental Cell</i> , 2005 , 9, 249-59	10.2	304
65	Regulation of sperm storage and movement in the mammalian oviduct. <i>International Journal of Developmental Biology</i> , 2008 , 52, 455-62	1.9	251
64	Fertilizing capacity of bovine sperm may be maintained by binding of oviductal epithelial cells. <i>Biology of Reproduction</i> , 1991 , 44, 102-7	3.9	238
63	Sperm transport and motility in the mouse oviduct: observations in situ. <i>Biology of Reproduction</i> , 1987 , 36, 203-10	3.9	234
62	Characterization of the intracellular calcium store at the base of the sperm flagellum that regulates hyperactivated motility. <i>Biology of Reproduction</i> , 2003 , 68, 1590-6	3.9	186
61	Hyperactivated motility of bull sperm is triggered at the axoneme by Ca ²⁺ and not cAMP. <i>Developmental Biology</i> , 2002 , 250, 208-17	3.1	179
60	Hyperactivated sperm progress in the mouse oviduct. <i>Biology of Reproduction</i> , 1992 , 46, 779-85	3.9	173
59	An inositol 1,4,5-trisphosphate receptor-gated intracellular Ca(2+) store is involved in regulating sperm hyperactivated motility. <i>Biology of Reproduction</i> , 2001 , 65, 1606-15	3.9	171
58	Hyperactivation enhances mouse sperm capacity for penetrating viscoelastic media. <i>Biology of Reproduction</i> , 1992 , 46, 686-91	3.9	167
57	Effect of capacitation on bull sperm binding to homologous oviductal epithelium. <i>Biology of Reproduction</i> , 1996 , 54, 575-82	3.9	154
56	Bovine seminal plasma proteins PDC-109, BSP-A3, and BSP-30-kDa share functional roles in storing sperm in the oviduct. <i>Biology of Reproduction</i> , 2006 , 75, 501-7	3.9	153
55	Mammalian sperm interactions with the female reproductive tract. <i>Cell and Tissue Research</i> , 2016 , 363, 185-194	4.2	149
54	Sperm motility hyperactivation facilitates penetration of the hamster zona pellucida. <i>Biology of Reproduction</i> , 1995 , 53, 1280-5	3.9	147
53	Bovine sperm binding to oviductal epithelium involves fucose recognition. <i>Biology of Reproduction</i> , 1997 , 56, 1198-204	3.9	145
52	PDC-109 (BSP-A1/A2) promotes bull sperm binding to oviductal epithelium in vitro and may be involved in forming the oviductal sperm reservoir. <i>Biology of Reproduction</i> , 2003 , 69, 809-15	3.9	135
51	Different signaling pathways in bovine sperm regulate capacitation and hyperactivation. <i>Biology of Reproduction</i> , 2004 , 70, 1626-33	3.9	134

50	The oviductal sperm reservoir in mammals: mechanisms of formation. <i>Biology of Reproduction</i> , 1998 , 58, 1105-7	3.9	115
49	Characterization of the oviductal sperm reservoir in cattle. <i>Biology of Reproduction</i> , 1995 , 53, 1066-74	3.9	112
48	Movement characteristics and acrosomal status of rabbit spermatozoa recovered at the site and time of fertilization. <i>Biology of Reproduction</i> , 1983 , 29, 1277-87	3.9	112
47	Formation of a reservoir of sperm in the oviduct. <i>Reproduction in Domestic Animals</i> , 2002 , 37, 140-3	1.6	109
46	Membrane contact with oviductal epithelium modulates the intracellular calcium concentration of equine spermatozoa in vitro. <i>Biology of Reproduction</i> , 1997 , 56, 861-9	3.9	106
45	Initiation of hyperactivated flagellar bending in mouse sperm within the female reproductive tract. <i>Biology of Reproduction</i> , 1987 , 36, 1191-8	3.9	103
44	CatSper-null mutant spermatozoa are unable to ascend beyond the oviductal reservoir. <i>Reproduction, Fertility and Development</i> , 2009 , 21, 345-50	1.8	102
43	Characterization of a fucose-binding protein from bull sperm and seminal plasma that may be responsible for formation of the oviductal sperm reservoir. <i>Biology of Reproduction</i> , 2001 , 64, 1806-11	3.9	99
42	Annexins are candidate oviductal receptors for bovine sperm surface proteins and thus may serve to hold bovine sperm in the oviductal reservoir. <i>Biology of Reproduction</i> , 2007 , 77, 906-13	3.9	95
41	Contributions of extracellular and intracellular Ca ²⁺ to regulation of sperm motility: Release of intracellular stores can hyperactivate CatSper1 and CatSper2 null sperm. <i>Developmental Biology</i> , 2007 , 303, 214-21	3.1	94
40	Bovine sperm hyperactivation is promoted by alkaline-stimulated Ca ²⁺ influx. <i>Biology of Reproduction</i> , 2007 , 76, 660-5	3.9	80
39	Distribution of mucus and sperm in bovine oviducts after artificial insemination: the physical environment of the oviductal sperm reservoir. <i>Biology of Reproduction</i> , 1997 , 56, 447-53	3.9	76
38	Carbohydrate-mediated formation of the oviductal sperm reservoir in mammals. <i>Cells Tissues Organs</i> , 2001 , 168, 105-12	2.1	76
37	Bull sperm binding to oviductal epithelium is mediated by a Ca ²⁺ -dependent lectin on sperm that recognizes Lewis-a trisaccharide. <i>Biology of Reproduction</i> , 1998 , 59, 39-44	3.9	71
36	Hyperactivated motility induced in mouse sperm by calcium ionophore A23187 is reversible. <i>The Journal of Experimental Zoology</i> , 1987 , 244, 331-6		70
35	Two distinct Ca(2+) signaling pathways modulate sperm flagellar beating patterns in mice. <i>Biology of Reproduction</i> , 2011 , 85, 296-305	3.9	69
34	Emergence of upstream swimming via a hydrodynamic transition. <i>Physical Review Letters</i> , 2015 , 114, 108102	7.4	65
33	Rethinking the relationship between hyperactivation and chemotaxis in mammalian sperm. <i>Biology of Reproduction</i> , 2010 , 83, 507-13	3.9	65

32	Physiological state of bull sperm affects fucose- and mannose-binding properties. <i>Biology of Reproduction</i> , 2000 , 62, 1010-5	3.9	62
31	Cooperative roles of biological flow and surface topography in guiding sperm migration revealed by a microfluidic model. <i>Lab on A Chip</i> , 2014 , 14, 1348-56	7.2	61
30	Increased conception rates in beef cattle inseminated with nanopurified bull semen. <i>Biology of Reproduction</i> , 2014 , 91, 97	3.9	60
29	Calcium/calmodulin and calmodulin kinase II stimulate hyperactivation in demembrated bovine sperm. <i>Biology of Reproduction</i> , 2005 , 73, 519-26	3.9	60
28	Intracellular calcium reaches different levels of elevation in hyperactivated and acrosome-reacted hamster sperm. <i>Molecular Reproduction and Development</i> , 1995 , 42, 325-33	2.6	60
27	Fluid viscoelasticity promotes collective swimming of sperm. <i>Scientific Reports</i> , 2017 , 7, 3152	4.9	59
26	Changes in motility that accompany the acrosome reaction in hyperactivated hamster spermatozoa. <i>Gamete Research</i> , 1984 , 10, 253-265		59
25	Microgrooves and fluid flows provide preferential passageways for sperm over pathogen <i>Tritrichomonas foetus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 5431-6	11.5	57
24	On a matter of seminal importance. <i>BioEssays</i> , 2015 , 37, 142-7	4.1	54
23	Selective passage through the uterotubal junction of sperm from a mixed population produced by chimeras of calmegin-knockout and wild-type male mice. <i>Biology of Reproduction</i> , 2004 , 71, 959-65	3.9	53
22	Unexpected flagellar movement patterns and epithelial binding behavior of mouse sperm in the oviduct. <i>Biology of Reproduction</i> , 2012 , 86, 140, 1-8	3.9	51
21	Coupling biochemistry and hydrodynamics captures hyperactivated sperm motility in a simple flagellar model. <i>Journal of Theoretical Biology</i> , 2011 , 283, 203-16	2.3	50
20	Hamster sperm motility transformation during development of hyperactivation in vitro and epididymal maturation. <i>Gamete Research</i> , 1988 , 19, 51-65		48
19	Cryopreservation increases coating of bull sperm by seminal plasma binder of sperm proteins BSP1, BSP3, and BSP5. <i>Reproduction</i> , 2013 , 146, 111-7	3.8	35
18	Sperm success and immunity. <i>Current Topics in Developmental Biology</i> , 2019 , 135, 287-313	5.3	32
17	Dynamics of Bovine Sperm Interaction with Epithelium Differ Between Oviductal Isthmus and Ampulla. <i>Biology of Reproduction</i> , 2016 , 95, 90	3.9	30
16	A model of CatSper channel mediated calcium dynamics in mammalian spermatozoa. <i>Bulletin of Mathematical Biology</i> , 2010 , 72, 1925-46	2.1	28
15	Alterations to the bull sperm surface proteins that bind sperm to oviductal epithelium. <i>Biology of Reproduction</i> , 2012 , 87, 88	3.9	25

14	Different migration patterns of sea urchin and mouse sperm revealed by a microfluidic chemotaxis device. <i>PLoS ONE</i> , 2013 , 8, e60587	3.7	23
13	Three-dimensional structure of the Golgi apparatus in mouse spermatids: a scanning electron microscopic study. <i>The Anatomical Record</i> , 1999 , 256, 189-94		22
12	Soluble adenylyl cyclase is required for activation of sperm but does not have a direct effect on hyperactivation. <i>Reproduction, Fertility and Development</i> , 2008 , 20, 247-52	1.8	20
11	Interaction of rabbit spermatozoa and serum complement components. <i>Biology of Reproduction</i> , 1982 , 27, 473-83	3.9	20
10	Ejaculated mouse sperm enter cumulus-oocyte complexes more efficiently in vitro than epididymal sperm. <i>PLoS ONE</i> , 2015 , 10, e0127753	3.7	17
9	Gamete and Zygote Transport 2015 , 197-232		12
8	Gamete and Zygote Transport 2006 , 113-145		11
7	Gamete Transport 2002 , 3-28		10
6	Different regulatory systems operate in the midpiece and principal piece of the mammalian sperm flagellum. <i>Society of Reproduction and Fertility Supplement</i> , 2007 , 65, 331-4		9
5	Toll-like receptor 2 mediates the immune response of the bovine oviductal ampulla to sperm binding. <i>Molecular Reproduction and Development</i> , 2020 , 87, 1059-1069	2.6	5
4	Co-Adaptation of Physical Attributes of the Mammalian Female Reproductive Tract and Sperm to Facilitate Fertilization. <i>Cells</i> , 2021 , 10,	7.9	5
3	Sperm interaction with the uterine innate immune system: toll-like receptor 2 (TLR2) is a main sensor in cattle.. <i>Reproduction, Fertility and Development</i> , 2021 , 34, 139-148	1.8	2
2	Transport of Spermatozoa in the Female Genital Tract 2003 , 227-236		1
1	Assessment of sperm motility in livestock: Perspectives based on sperm swimming conditions in vivo. <i>Animal Reproduction Science</i> , 2021 , 106849	2.1	0