Stanley Meizel

List of Publications by Year
in descending order

77 papers	5,134 citations	71102 41 h-index	82547 72 g-index
77 all docs	77 docs citations	77 times ranked	1369 citing authors

#	Article	IF	Citations
1	Steroid induced exocytosis: The human sperm acrosome reaction. Biochemical and Biophysical Research Communications, 1989, 160, 828-833.	2.1	396
2	Induction of the acrosome reaction in human spermatozoa by a fraction of human follicular fluid. Gamete Research, 1986, 14, 107-121.	1.7	306
3	An influx of extracelluar calcium is required for initiation of the human sperm acrosome reaction induced by human follicular fluid. Gamete Research, 1988, 20, 397-411.	1.7	214
4	Molecules that initiate or help stimulate the acrosome reaction by their interaction with the mammalian sperm surface. American Journal of Anatomy, 1985, 174, 285-302.	1.0	202
5	Human Sperm Plasma Membrane Progesterone Receptor(s) and the Acrosome Reaction1. Biology of Reproduction, 1996, 54, 993-1001.	2.7	176
6	THE IMPORTANCE OF HYDROLYTIC ENZYMES TO AN EXOCYTOTIC EVENT, THE MAMMALIAN SPERM ACROSOME REACTION. Biological Reviews, 1984, 59, 125-157.	10.4	164
7	In vitro studies of the golden hamster sperm acrosome reaction: Completion on the zona pellucida and induction by homologous soluble zonae pellucidae. Developmental Biology, 1986, 114, 119-131.	2.0	160
8	Ultrastructural studies of the early events of the human sperm acrosome reaction as initiated by human follicular fluid. Gamete Research, 1988, 20, 11-24.	1.7	154
9	Progesterone acts at the plasma membrane of human sperm. Molecular and Cellular Endocrinology, 1991, 77, R1-R5.	3.2	153
10	Evidence for the role of a trypsin-like enzyme in the hamster sperm acrosome reaction. The Journal of Experimental Zoology, 1976, 195, 137-144.	1.4	123
11	Further evidence in support of a role for hamster sperm hydrolytic enzymes in the acrosome reaction. The Journal of Experimental Zoology, 1979, 207, 173-186.	1.4	105
12	Progesterone Triggers a Wave of Increased Free Calcium during the Human Sperm Acrosome Reaction. Developmental Biology, 1997, 182, 67-75.	2.0	103
13	Proacrosin from Rabbit Epididymal Spermatozoa: Partial Purification and Initial Biochemical Characterization1. Biology of Reproduction, 1975, 13, 83-93.	2.7	101
14	Studies of phospholipase A2 related to the hamster sperm acrosome reaction. The Journal of Experimental Zoology, 1982, 221, 107-117.	1.4	95
15	Amino Acid Neurotransmitter Receptor/Chloride Channels of Mammalian Sperm and the Acrosome Reaction1. Biology of Reproduction, 1997, 56, 569-574.	2.7	93
16	Human sperm acrosome reaction-initiating activity associated with the human cumulus oophorus and mural granulosa cells. The Journal of Experimental Zoology, 1988, 246, 71-80.	1.4	90
17	Taurine maintains and stimulates motility of hamster sperm during capacitation in vitro. The Journal of Experimental Zoology, 1979, 210, 123-128.	1.4	86
18	Zona Pellucida-Induced Acrosome Reaction in Boar Sperm1. Biology of Reproduction, 1989, 40, 525-530.	2.7	85

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19	Comparison of the ability of progesterone and heat solubilized porcine zona pellucida to initiate the porcine sperm acrosome reaction in vitro. Molecular Reproduction and Development, 1994, 39, 433-438.	2.0	85
20	Progesterone-Mediated Calcium Influx and Acrosome Reaction of Human Spermatozoa: Pharmacological Investigation of T-Type Calcium Channels1. Biology of Reproduction, 1999, 60, 102-109.	2.7	83
21	The sperm, a neuron with a tail: â€˜neuronalâ€™ receptors in mammalian sperm. Biological Reviews, 2004, 79, 713-732.	10.4	83
22	Initiation of the human sperm acrosome reaction by thapsigargin. The Journal of Experimental Zoology, 1993, 267, 350-355.	1.4	81
23	Biochemical Studies of Proacrosin and Acrosin from Hamster Cauda Epididymal Spermatozoa1. Biology of Reproduction, 1976, 14, 444-450.	2.7	78
24	Identification of the Bovine Follicular Fluid Protein Involved in the in vitro Induction of the Hamster Sperm Acrosome Reaction. Biology of Reproduction, 1977, 17, 34-41.	2.7	75
25	Nicotinic Acetylcholine Receptor Subunits and Associated Proteins inHuman Sperm. Journal of Biological Chemistry, 2005, 280, 25928-25935.	3.4	71
26	Changes in motility that accompany the acrosome reaction in hyperactivated hamster spermatozoa. Gamete Research, 1984, 10, 253-265.	1.7	66
27	Mice Deficient in CHRNA7, a Subunit of the Nicotinic Acetylcholine Receptor, Produce Sperm with Impaired Motility1. Biology of Reproduction, 2005, 73, 807-814.	2.7	66
28	Glycosaminoglycans stimulate the acrosome reaction of previously capacitated hamster sperm. The Journal of Experimental Zoology, 1986, 237, 137-139.	1.4	64
29	Regulation of intracellular pH in capacitated human spermatozoa by a Na+/H+ exchanger. Molecular Reproduction and Development, 1999, 52, 189-195.	2.0	63
30	A Role for the Human Sperm Glycine Receptor/Clâ^' Channel in the Acrosome Reaction Initiated by Recombinant ZP31. Biology of Reproduction, 2002, 66, 91-97.	2.7	59
31	Correlation of increased intraacrosomal pH with the hamster sperm acrosome reaction. The Journal of Experimental Zoology, 1983, 227, 97-107.	1.4	57
32	Phospholipid Methylation Increases During Capacitation of Golden Hamster Sperm in Vitro. Biology of Reproduction, 1983, 28, 1043-1051.	2.7	56
33	Stimulation of an exocytotic event, the hamster sperm acrosome reaction, by cis -unsaturated fatty acids. FEBS Letters, 1983, 161, 315-318.	2.8	55
34	Studies of Porcine and Human Sperm Suggesting a Role for a Sperm Glycine Receptor/ClChannel in the Zona Pellucida-Initiated Acrosome Reaction1. Biology of Reproduction, 1995, 53, 676-683.	2.7	49
35	Biochemical Studies of the in vitro Acrosome Reaction Inducing Activity of Bovine Serum Albumin. Differentiation, 1977, 9, 59-66.	1.9	48
36	Further Evidence Suggesting the Hormonal Stimulation of Hamster Sperm Acrosome Reactions by Catecholamines in vitro. Biology of Reproduction, 1980, 22, 211-216.	2.7	47

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37	Trypsin inhibitors prevent the progesterone-initiated increase in intracellular calcium required for the human sperm acrosome reaction. The Journal of Experimental Zoology, 1991, 258, 384-393.	1.4	47
38	Evidence suggesting a role for cyclic nucleotides in acrosome reactions of hamster sperm in vitro. The Journal of Experimental Zoology, 1980, 211, 153-157.	1.4	46
39	Partial characterization of a fraction from human follicular fluid that initiates the human sperm acrosome reaction in vitro. Gamete Research, 1988, 20, 25-42.	1.7	46
40	Evidence for the involvement of a sperm trypsinlike enzyme in the membrane events of the hamster sperm acrosome reaction. The Journal of Experimental Zoology, 1984, 232, 117-128.	1.4	44
41	A Nicotinic Acetylcholine Receptor Is Involved in the Acrosome Reaction of Human Sperm Initiated by Recombinant Human ZP31. Biology of Reproduction, 2002, 67, 782-788.	2.7	44
42	Serotonin or its agonist 5-methoxytryptamine can stimulate hamster sperm acrosome reactions in a more direct manner than catecholamines. The Journal of Experimental Zoology, 1983, 226, 171-174.	1.4	42
43	Adrenergic Stimulation of Fertilizing Ability in Hamster Spermatozoa. Biology of Reproduction, 1979, 20, 925-929.	2.7	41
44	Stimulation of hamster sperm capacitation and acrosome reaction in vitro by glucose and lactate and inhibition by the glycolytic inhibitor ?-chlorohydrin. Gamete Research, 1981, 4, 515-523.	1.7	40
45	Progesterone initiation of the human sperm acrosome reaction: the obligatory increase in intracellular calcium is independent of the chloride requirement. Molecular and Cellular Endocrinology, 1994, 101, 221-225.	3.2	40
46	Procedures for obtaining high percentages of viable in vitro capacitated hamster sperm. Gamete Research, 1979, 2, 207-211.	1.7	39
47	Recognition of a human sperm surface protein involved in the progesterone-initiated acrosome reaction by antisera against an endomembrane progesterone binding protein from porcine liver. Molecular and Cellular Endocrinology, 1999, 158, 187-193.	3.2	38
48	Biochemical Studies of Metalloendoprotease Activity in the Spermatozoa of Three Mammalian Species. Journal of Andrology, 1987, 8, 14-24.	2.0	37
49	Inhibition of hamster sperm Na+, K+-ATPase activity by taurine and hypotaurine. Life Sciences, 1985, 36, 271-275.	4.3	36
50	Importance of sodium ion to the progesterone-initiated acrosome reaction in human sperm. Molecular Reproduction and Development, 1996, 45, 513-520.	2.0	35
51	Purification of Rabbit Testis Proacrosin and Studies of Its Active Form. Biology of Reproduction, 1975, 12, 232-238.	2.7	34
52	Effects of polyamine biosynthesis inhibitors on the progesterone-initiated increase in intracellular free Ca2+ and acrosome reactions in human sperm. Molecular Reproduction and Development, 1993, 34, 457-465.	2.0	33
53	The Effect of Inhibitors of Trypsin and Phospholipase A₂ on the Penetration of Zona Pellucidaâ€free Hamster Eggs by Acrosomeâ€reacted Hamster Sperm. Journal of Andrology, 1982, 3, 388-395.	2.0	31
54	The effects of products and inhibitors of arachidonic acid metabolism on the hamster sperm acrosome reaction. The Journal of Experimental Zoology, 1984, 231, 283-288.	1.4	31

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55	Release of hyaluronidase and Î²-N-acetylhexosaminidase during in vitro incubation of hamster sperm. The Journal of Experimental Zoology, 1985, 234, 63-74.	1.4	31
56	The Zona Pellucida-Initiated Acrosome Reaction: Defect Due to Mutations in the Sperm Glycine Receptor/Clâ^' Channel. Developmental Biology, 2000, 227, 211-218.	2.0	31
57	Evidence Suggesting That the Mouse Sperm Acrosome Reaction Initiated by the Zona Pellucida Involves an Î±7 Nicotinic Acetylcholine Receptor1. Biology of Reproduction, 2003, 68, 1348-1353.	2.7	29
58	Evidence suggesting a role for sperm metalloendoprotease activity in penetration of zona-free hamster eggs by human sperm. The Journal of Experimental Zoology, 1988, 248, 213-221.	1.4	28
59	Hamster sperm Na+, K+-adenosine triphosphatase: increased activity during capacitation in vitro and its relationship to cyclic nucleotides. Biology of Reproduction, 1984, 30, 573-584.	2.7	27
60	Importance of mammalian sperm metalloendoprotease activity during the acrosome reaction to subsequent sperm-egg fusion: Inhibitor studies with human sperm and zona-free hamster eggs. Molecular Reproduction and Development, 1992, 31, 122-130.	2.0	27
61	The molecular transformation of rabbit testis proacrosin into acrosin. Archives of Biochemistry and Biophysics, 1975, 168, 720-721.	3.0	26
62	Hydrolysis of the hen egg vitelline membrane by cock sperm acrosin and other enzymes. The Journal of Experimental Zoology, 1975, 194, 429-437.	1.4	26
63	Immunochemical Identification of the Glycine Receptor/Clâ^'Channel in Porcine Sperm. Biochemical and Biophysical Research Communications, 1996, 223, 675-678.	2.1	24
64	Hamster sperm glycine receptor: Evidence for its presence and involvement in the acrosome reaction. Molecular Reproduction and Development, 2001, 58, 205-215.	2.0	23
65	Studies of sperm from mutant mice suggesting that two neurotransmitter receptors are important to the zona pellucida-initiated acrosome reaction. Molecular Reproduction and Development, 2005, 72, 250-258.	2.0	23
66	Further studies of an inactive form of a trypsin-like enzyme in rabbit testes. Biochemical and Biophysical Research Communications, 1973, 53, 1145-1150.	2.1	22
67	Preliminary characterization of a Mg2+-ATPase in hamster sperm head membranes. Biochemical and Biophysical Research Communications, 1982, 104, 1060-1065.	2.1	21
68	Inhibition of the hamster sperm acrosome reaction by transmethylation inhibitors. The Journal of Experimental Zoology, 1981, 217, 443-446.	1.4	18
69	Conversion of rabbit testis proacrosin to acrosin. FEBS Letters, 1975, 54, 269-273.	2.8	15
70	Identification of agrinSN isoform and muscle-specific receptor tyrosine kinase in sperm. Biochemical and Biophysical Research Communications, 2006, 342, 522-528.	2.1	12
71	Initial evidence for the modification of hamster sperm Na+, K+-ATPase activity by cyclic nucleotide-mediated processes. Biochemical and Biophysical Research Communications, 1983, 112, 132-138.	2.1	10
72	Detection of glycine receptor/Cl- channel beta subunit transcripts in mouse testis. Zygote, 2002, 10, 105-108.	1.1	10

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73	Xâ€ray stereomicroscopy: high resolution 3â€Ð imaging of human spermatozoa in aqueous suspension with natural contrast. Journal of Microscopy, 1992, 166, Rp5-6.	1.8	9
74	Identification and spatial distribution of glycine receptor subunits in human sperm. Reproduction, 2008, 136, 387-390.	2.6	9
75	Multiple molecular forms of avian acrosin: Differences in their kinetic properties. FEBS Letters, 1975, 56, 115-119.	2.8	8
76	Rabbit testis proacrosin: Immunological similarities between testis, sperm proacrosins and the initially formed testis acrosin. Gamete Research, 1980, 3, 241-246.	1.7	5
77	Biochemical characterization of an avian spermatozoan acrosin and comparison of its properties to those of bovine trypsin and mammalian acrosins. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1976, 54, 213-218.	0.2	4