

Nongnuj Tanphaichitr

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

2,768
citations

186265

28
h-index

189892

50
g-index

81
all docs

81
docs citations

81
times ranked

2028
citing authors

#	ARTICLE	IF	CITATIONS
1	Aberrant protamine 1/protamine 2 ratios in sperm of infertile human males. <i>Experientia</i> , 1988, 44, 52-55.	1.2	282
2	Basic nuclear proteins in testicular cells and ejaculated spermatozoa in man. <i>Experimental Cell Research</i> , 1978, 117, 347-356.	2.6	203
3	Modifications to histones immediately after synthesis. <i>Journal of Molecular Biology</i> , 1976, 104, 471-483.	4.2	197
4	Human Exposure to Endocrine Disrupters and Semen Quality. <i>Journal of Toxicology and Environmental Health - Part B: Critical Reviews</i> , 2008, 11, 188-220.	6.5	161
5	Sperm capacitation induces an increase in lipid rafts having zona pellucida binding ability and containing sulfogalactosylglycerolipid. <i>Developmental Biology</i> , 2006, 290, 220-235.	2.0	101
6	Composition and significance of detergent resistant membranes in mouse spermatozoa. <i>Journal of Cellular Physiology</i> , 2009, 218, 122-134.	4.1	98
7	Egg-penetration ability and structural properties of human sperm prepared by Percoll-gradient centrifugation. <i>Gamete Research</i> , 1988, 20, 67-81.	1.7	72
8	Role of Sperm Sulfogalactosylglycerolipid in Mouse Sperm-Zona Pellucida Binding ¹ . <i>Biology of Reproduction</i> , 2000, 63, 147-155.	2.7	68
9	Role of Sperm Surface Arylsulfatase A in Mouse Sperm-Zona Pellucida Binding ¹ . <i>Biology of Reproduction</i> , 2002, 67, 212-219.	2.7	67
10	Levels of cholesterol and phospholipids in freshly ejaculated sperm and Percoll-gradient-pelleted sperm from fertile and unexplained infertile men. <i>Fertility and Sterility</i> , 1991, 55, 820-827.	1.0	60
11	Arylsulfatase A Is Present on the Pig Sperm Surface and Is Involved in Spermâ€™Zona Pellucida Binding. <i>Developmental Biology</i> , 2002, 247, 182-196.	2.0	60
12	Sperm from Mice Genetically Deficient for the PCSK4 Proteinase Exhibit Accelerated Capacitation, Precocious Acrosome Reaction, Reduced Binding to Egg Zona Pellucida, and Impaired Fertilizing Ability ¹ . <i>Biology of Reproduction</i> , 2006, 74, 666-673.	2.7	53
13	Acquisition of Arylsulfatase A onto the Mouse Sperm Surface During Epididymal Transit. <i>Biology of Reproduction</i> , 2003, 69, 1183-1192.	2.7	47
14	Sulfogalactosylglycerolipid is involved in human gamete interaction. <i>Molecular Reproduction and Development</i> , 2001, 60, 569-578.	2.0	44
15	New insights into sperm-zona pellucida interaction: involvement of sperm lipid rafts. <i>Frontiers in Bioscience - Landmark</i> , 2007, 12, 1748.	3.0	42
16	Percoll Gradient-Centrifuged Capacitated Mouse Sperm Have Increased Fertilizing Ability and Higher Contents of Sulfogalactosylglycerolipid and Docosahexaenoic Acid-Containing Phosphatidylcholine Compared to Washed Capacitated Mouse Sperm ¹ . <i>Biology of Reproduction</i> , 2005, 72, 574-583.	2.7	41
17	Potential Use of Antimicrobial Peptides as Vaginal Spermicides/Microbicides. <i>Pharmaceuticals</i> , 2016, 9, 13.	3.8	41
18	Levels Of L-Carnitine And L-O-Acetylcarnitine In Normal And Infertile Human Semen: A Lower Level Of L-O-Acetylcarnitine In Infertile Semen*. <i>Fertility and Sterility</i> , 1977, 28, 1333-1336.	1.0	39

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19	Identification of Trichloroethylene and Its Metabolites in Human Seminal Fluid of Workers Exposed to Trichloroethylene. <i>Drug Metabolism and Disposition</i> , 2003, 31, 306-311.	3.3	39
20	Levels of sulfogalactosylglycerolipid in capacitated motile and immotile mouse spermatozoa. <i>Biochemistry and Cell Biology</i> , 1990, 68, 528-535.	2.0	35
21	Binding of Arylsulfatase A to Mouse Sperm Inhibits Gamete Interaction and Induces the Acrosome Reaction1. <i>Biology of Reproduction</i> , 2002, 66, 1820-1827.	2.7	33
22	Mechanisms of obesity-induced male infertility. <i>Expert Review of Endocrinology and Metabolism</i> , 2010, 5, 229-251.	2.4	33
23	Induction of the Acrosome Reaction in Black Tiger Shrimp (<i>Penaeus monodon</i>) Requires Sperm Trypsin-Like Enzyme Activity1. <i>Biology of Reproduction</i> , 2008, 79, 134-141.	2.7	32
24	Proteomic Characterization of Pig Sperm Anterior Head Plasma Membrane Reveals Roles of Acrosomal Proteins in ZP3 Binding. <i>Journal of Cellular Physiology</i> , 2015, 230, 449-463.	4.1	32
25	Transmission and scanning electron microscopic studies of the human sperm chromatin decondensed by micrococcal nuclease and salt. <i>The Journal of Experimental Zoology</i> , 1982, 221, 61-79.	1.4	30
26	Differential Effects of (+) and (âˆ-)Gossypol Enantiomers on Mitochondrial Function and Proliferation of Cultured TM₄ Cells. <i>Journal of Andrology</i> , 1988, 9, 270-277.	2.0	29
27	A Fourier-transform infrared study of the interaction between germ-cell specific sulfogalactosylglycerolipid and dimyristoylglycerophosphocholine. <i>Chemistry and Physics of Lipids</i> , 2000, 106, 101-114.	3.2	29
28	Acid-extracted nuclear proteins and ultrastructure of human sperm chromatin as revealed by differential extraction with urea, mercaptoethanol, and salt. <i>Gamete Research</i> , 1981, 4, 297-315.	1.7	28
29	Role of a germ cell-specific sulfolipid-immobilizing protein (SLIP1) in mouse in vivo fertilization. <i>Molecular Reproduction and Development</i> , 1992, 32, 17-22.	2.0	28
30	Visualizing the localization of sulfoglycolipids in lipid raft domains in model membranes and sperm membrane extracts. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 299-310.	2.6	28
31	Properties, metabolism and roles of sulfogalactosylglycerolipid in male reproduction. <i>Progress in Lipid Research</i> , 2018, 72, 18-41.	11.6	27
32	Direct Effect of Gossypol on TR-ST Cells: Perturbation of Rhodamine 123 Accumulation in Mitochondria. <i>Biology of Reproduction</i> , 1984, 31, 1049-1060.	2.7	26
33	Interaction of divalent cations with germ cell specific sulfogalactosylglycerolipid and the effects on lipid chain dynamics. <i>Biochemistry</i> , 1994, 33, 13250-13258.	2.5	26
34	Antimicrobial host defence peptide, LL-37, as a potential vaginal contraceptive. <i>Human Reproduction</i> , 2014, 29, 683-696.	0.9	26
35	Comparison of the in vitro fertilization rate by human sperm capacitated by multiple-tube swim-up and Percoll gradient centrifugation. <i>Journal of in Vitro Fertilization and Embryo Transfer: IVF</i> , 1988, 5, 119-122.	0.8	24
36	Binding of calcium to sulfogalactosylceramide and the sequential effects on the lipid dynamics. <i>Biochemistry</i> , 1992, 31, 11902-11907.	2.5	23

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37	Sperm surface arylsulfatase A can disperse the cumulus matrix of cumulus oocyte complexes. <i>Journal of Cellular Physiology</i> , 2007, 213, 201-211.	4.1	23
38	Arylsulfatase A deficiency causes seminolipid accumulation and a lysosomal storage disorder in Sertoli cells. <i>Journal of Lipid Research</i> , 2011, 52, 2187-2197.	4.2	23
39	Isolation of antiSLIP1-reactive boar sperm P68/62 and its binding to mammalian zona pellucida. <i>Molecular Reproduction and Development</i> , 1998, 49, 203-216.	2.0	22
40	Remodeling of the plasma membrane in preparation for sperm-egg recognition: roles of acrosomal proteins. <i>Asian Journal of Andrology</i> , 2015, 17, 574.	1.6	22
41	Production of motile acrosome-reacted mouse sperm with nanomolar concentration of calcium ionophore A23187. <i>Molecular Reproduction and Development</i> , 1994, 37, 326-334.	2.0	21
42	Sex ratio of babies is unchanged after transfer of fast- versus slow-cleaving embryos. <i>Journal of Assisted Reproduction and Genetics</i> , 1995, 12, 566-568.	2.5	21
43	Energy Metabolism of Cultured TM4 Cells and the Action of Gossypol1. <i>Biology of Reproduction</i> , 1986, 34, 809-819.	2.7	20
44	Effects of human sera and human serum albumin on mouse embryo culture. <i>Journal of Assisted Reproduction and Genetics</i> , 1992, 9, 45-52.	2.5	20
45	Mammalian Hyaluronidase Induces Ovarian Granulosa Cell Apoptosis and Is Involved in Follicular Atresia. <i>Endocrinology</i> , 2008, 149, 5835-5847.	2.8	20
46	Cholesterol and phospholipid levels of washed and percoll gradient centrifuged mouse sperm: Presence of lipids possessing inhibitory effects on sperm motility. <i>Molecular Reproduction and Development</i> , 1996, 43, 187-195.	2.0	19
47	Clusterin in the mouse epididymis: possible roles in sperm maturation and capacitation. <i>Reproduction</i> , 2017, 154, 867-880.	2.6	19
48	Role of Egg Sulfolipidimmobilizing Protein 1 on Mouse Sperm-Egg Plasma Membrane Binding1. <i>Biology of Reproduction</i> , 1999, 61, 749-756.	2.7	17
49	Anti-SLIP1-reactive proteins exist on human spermatozoa and are involved in zona pellucida binding. <i>Molecular Human Reproduction</i> , 2001, 7, 633-640.	2.8	17
50	Sperm arylsulfatase A binds to mZP2 and mZP3 glycoproteins in a nonenzymatic manner. <i>Reproduction</i> , 2012, 144, 209-219.	2.6	16
51	Rat recombinant $\hat{1}^2$ -defensin 22 is a heparin-binding protein with antimicrobial activity. <i>Asian Journal of Andrology</i> , 2011, 13, 305-311.	1.6	16
52	Histone phosphorylation in the presence of inhibitors of DNA synthesis. <i>Biochemistry</i> , 1974, 13, 4249-4254.	2.5	15
53	Electron microscopic and biochemical analyses of the organization of human sperm chromatin decondensed with Sarkosyl and dithiothreitol. <i>The Journal of Experimental Zoology</i> , 1982, 223, 277-290.	1.4	15
54	Interaction of arylsulfatase-A (ASA) with its natural sulfoglycolipid substrates: a computational and site-directed mutagenesis study. <i>Glycoconjugate Journal</i> , 2009, 26, 1029-1045.	2.7	15

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55	An increase in in vitro fertilization ability of low-density human sperm capacitated by multiple-tube swim-up. <i>Fertility and Sterility</i> , 1987, 48, 821-827.	1.0	14
56	Use of atomic force microscopy for morphological and morphometric analyses of acrosome intact and acrosome-reacted human sperm. <i>Molecular Reproduction and Development</i> , 2002, 63, 471-479.	2.0	14
57	Exposure to Trichloroethylene and its Metabolites Causes Impairment of Sperm Fertilizing Ability in Mice. <i>Toxicological Sciences</i> , 2004, 82, 590-597.	3.1	14
58	Antimicrobial peptide LL-37 and its truncated forms, GI-20 and GF-17, exert spermicidal effects and microbicidal activity against <i>Neisseria gonorrhoeae</i> . <i>Human Reproduction</i> , 2018, 33, 2175-2183.	0.9	14
59	Quantification of seminolipid by LC-ESI-MS/MS-multiple reaction monitoring: compensatory levels in Cgt mice. <i>Journal of Lipid Research</i> , 2010, 51, 3548-3558.	4.2	13
60	Biochemical and ultrastructural characterizations of nucleoprotamine in human sperm heads treated with micrococcal nuclease and salt. <i>Gamete Research</i> , 1982, 6, 235-255.	1.7	12
61	Enzymatic activity of sperm proprotein convertase is important for mammalian fertilization. <i>Journal of Cellular Physiology</i> , 2011, 226, 2817-2826.	4.1	12
62	Gossypol effects on the structure and dynamics of phospholipid bilayers: A FT-IR study. <i>Chemistry and Physics of Lipids</i> , 1995, 75, 119-125.	3.2	11
63	Polymorphic phases of galactocerebrosides: spectroscopic evidence of lamellar crystalline structures. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2001, 1512, 158-170.	2.6	11
64	An efficient and convenient synthesis of deuterium-labelled seminolipid isotopomers and their ESI-MS characterization. <i>Chemistry and Physics of Lipids</i> , 2008, 152, 78-85.	3.2	10
65	Presence of Arylsulfatase A and Sulfogalactosylglycerolipid in Mouse Ovaries: Localization to the Corpus Luteum. <i>Endocrinology</i> , 2008, 149, 3942-3951.	2.8	10
66	Primary Sertoli Cell Cultures From Adult Mice Have Different Properties Compared With Those Derived From 20-Day-Old Animals. <i>Endocrinology</i> , 2020, 161, .	2.8	10
67	Electron microscopic studies of rat sperm heads treated with urea, dithiothreitol, and micrococcal nuclease. <i>The Anatomical Record</i> , 1981, 201, 225-235.	1.8	9
68	Pig sperm membrane microdomains contain a highly glycosylated 15â€“25-kDa wheat germ agglutinin-binding protein. <i>Biochemical and Biophysical Research Communications</i> , 2012, 426, 356-362.	2.1	8
69	Lipidomic Profiling of Sinus Mucosa from Patients with Chronic Rhinosinusitis. <i>Clinical and Translational Science</i> , 2015, 8, 107-115.	3.1	8
70	Interaction between sulfogalactosylceramide and dimyristoylphosphatidylcholine increases the orientational fluctuation of their lipid hydrocarbon chains. <i>Chemistry and Physics of Lipids</i> , 1998, 94, 227-238.	3.2	7
71	Sperm can act as vectors for HIVâ€“1 transmission into vaginal and cervical epithelial cells. <i>American Journal of Reproductive Immunology</i> , 2019, 82, e13129.	1.2	7
72	Accumulation of Seminolipid in Sertoli Cells Is Associated with Increased Levels of Reactive Oxygen Species and Male Subfertility: Studies in Aging Arsa Null Male Mice. <i>Antioxidants</i> , 2021, 10, 912.	5.1	7

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73	Inhibitory effects of gossypol analogs on human sperm motility. <i>Contraception</i> , 1989, 39, 687-697.	1.5	6
74	Incorporation of Gossypol and Formation of Its Protein Conjugates in Mouse Transformed Sertoli (TM4) Cells. <i>Journal of Andrology</i> , 1989, 10, 195-201.	2.0	6
75	Lipid Rafts and Sulfogalactosylglycerolipid (SGG) in Sperm Functions: Consensus and Controversy. <i>Trends in Glycoscience and Glycotechnology</i> , 2007, 19, 67-83.	0.1	5
76	Transmission and Scanning Electron Microscopic Studies of Human Sperm Heads Extracted with 8 <i></i>M</i> Urea, 1% Mercaptoethanol and Different Concentrations of Salt. <i>Cells Tissues Organs</i> , 1984, 120, 220-227.	2.3	4
77	Antimicrobial Peptide, LL-37, And Its Potential As An Anti-HIV Agent. <i>Clinical and Investigative Medicine</i> , 2021, 44, E64-71.	0.6	4
78	Towards a More Precise Assay of Sperm Function in Egg Binding. <i>Journal of Obstetrics and Gynaecology Canada</i> , 2003, 25, 461-470.	0.7	3
79	Adverse effects of gossypol analogs on TM4 cell mitochondrial function. <i>Contraception</i> , 1989, 39, 677-685.	1.5	2
80	Lipidomic Profiling of Mastoid Bone and Tissue from Patients with Chronic Otomastoiditis. <i>International Archives of Otorhinolaryngology</i> , 2015, 19, 141-150.	0.8	2