Ryuzo Yanagimachi

List of Publications by Year
in descending order

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142 papers	14,620 citations	12330 69 h-index	19190 118 g-index
143 all docs	143 docs citations	143 times ranked	6172 citing authors

#	Article	IF	Citations
1	Mysteries and unsolved problems of mammalian fertilization and related topics. Biology of Reproduction, 2022, 106, 644-675.	2.7	25
2	Both Cauda and Caput Epididymal Sperm Are Capable of Supporting Full-Term Development in FVB and CD-1 Mice. Developmental Cell, 2020, 55, 675-676.	7.0	16
3	Acrosin is essential for sperm penetration through the zona pellucida in hamsters. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2513-2518.	7.1	64
4	Active peristaltic movements and fluid production of the mouse oviduct: their roles in fluid and sperm transport and fertilizationâ€. Biology of Reproduction, 2019, 101, 40-49.	2.7	45
5	Sperm acrosome reaction: its site and role in fertilizationâ€. Biology of Reproduction, 2018, 99, 127-133.	2.7	100
6	Chemical and physical guidance of fish spermatozoa into the egg through the micropyleâ€,â€¡. Biology of Reproduction, 2017, 96, 780-799.	2.7	67
7	The Behavior and Acrosomal Status of Mouse Spermatozoa In Vitro, and Within the Oviduct During Fertilization after Natural Mating. Biology of Reproduction, 2016, 95, 50-50.	2.7	72
8	Behavior of Mouse Spermatozoa in the Female Reproductive Tract from Soon after Mating to the Beginning of Fertilization1. Biology of Reproduction, 2016, 94, 80.	2.7	108
9	Fourteen babies born after round spermatid injection into human oocytes. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14629-14634.	7.1	87
10	Gonadotropin stimulation contributes to an increased incidence of epimutations in ICSI-derived mice. Human Molecular Genetics, 2012, 21, 4460-4472.	2.9	65
11	Fertilization Studies and Assisted Fertilization in Mammals: Their Development and Future. Journal of Reproduction and Development, 2012, 58, 25-32.	1.4	20
12	Hyperactive self-inactivating piggyBac for transposase-enhanced pronuclear microinjection transgenesis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19184-19189.	7.1	49
13	Problems of sperm fertility: A reproductive biologist's view. Systems Biology in Reproductive Medicine, 2011, 57, 102-114.	2.1	11
14	Mammalian Sperm Acrosome Reaction: Where Does It Begin Before Fertilization?. Biology of Reproduction, 2011, 85, 4-5.	2.7	74
15	Acrosome-reacted mouse spermatozoa recovered from the perivitelline space can fertilize other eggs. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20008-20011.	7.1	117
16	Glucose Parameters Are Altered in Mouse Offspring Produced by Assisted Reproductive Technologies and Somatic Cell Nuclear Transfer1. Biology of Reproduction, 2010, 83, 220-227.	2.7	77
17	Germ Cell Research: A Personal Perspective. Biology of Reproduction, 2009, 80, 204-218.	2.7	34
18	Establishment of trophoblast stem cell lines from somatic cell nuclear-transferred embryos. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16293-16297.	7.1	23

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19	Use of intracytoplasmic sperm injection (ICSI) to generate transgenic animals. Comparative Immunology, Microbiology and Infectious Diseases, 2009, 32, 47-60.	1.6	35
20	Vincent J. De Feo (1 October 1925 to 10 December 2007). Clinical Anatomy, 2009, 22, 273-274.	2.7	0
21	Birth of Mice after Intracytoplasmic Injection of Single Purified Sperm Nuclei and Detection of Messenger RNAs and MicroRNAs in the Sperm Nuclei1. Biology of Reproduction, 2008, 78, 896-902.	2.7	78
22	Sirt1 Deficiency Attenuates Spermatogenesis and Germ Cell Function. PLoS ONE, 2008, 3, e1571.	2.5	116
23	DNA Methylation Errors in Cloned Mice Disappear with Advancement of Aging. Cloning and Stem Cells, 2007, 9, 293-302.	2.6	23
24	Lack of Spem1 causes aberrant cytoplasm removal, sperm deformation, and male infertility. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 6852-6857.	7.1	145
25	Effects of light on development of mammalian zygotes. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14289-14293.	7.1	147
26	Developmental, Behavioral, and Physiological Phenotype of Cloned Mice. , 2007, 591, 72-83.		11
27	Active integration: new strategies for transgenesis. Transgenic Research, 2007, 16, 333-339.	2.4	48
28	ORTHODOX AND UNORTHODOX WAYS TO INITIATE FERTILIZATION AND DEVELOPMENT IN MAMMALS. , 2007, , 255-262.		1
29	Gradual DNA demethylation of theOct4 promoter in cloned mouse embryos. Molecular Reproduction and Development, 2006, 73, 180-188.	2.0	65
30	Simultaneous removal of sperm plasma membrane and acrosome before intracytoplasmic sperm injection improves oocyte activation/embryonic development. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 17661-17666.	7.1	97
31	Spermatozoa and spermatids retrieved from frozen reproductive organs or frozen whole bodies of male mice can produce normal offspring. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13098-13103.	7.1	89
32	Regulation and Effects of Modulation of Telomerase Reverse Transcriptase Expression in Primordial Germ Cells During Development1. Biology of Reproduction, 2006, 75, 785-791.	2.7	19
33	Male Gamete Contributions to the Embryo. Annals of the New York Academy of Sciences, 2005, 1061, 203-207.	3.8	33
34	Cloning and assisted reproductive techniques: Influence on early development and adult phenotype. Birth Defects Research Part C: Embryo Today Reviews, 2005, 75, 151-162.	3.6	24
35	Decline in fertility of mouse sperm with abnormal chromatin during epididymal passage as revealed by ICSI. Human Reproduction, 2005, 20, 3101-3108.	0.9	170
36	Tn5 Transposase-Mediated Mouse Transgenesis1. Biology of Reproduction, 2005, 73, 1157-1163.	2.7	39

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37	Propagation of an infertile hermaphrodite mouse lacking germ cells by using nuclear transfer and embryonic stem cell technology. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 29-33.	7.1	75
38	Alkylated Imino Sugars, Reversible Male Infertility-Inducing Agents, Do Not Affect the Genetic Integrity of Male Mouse Germ Cells During Short-Term Treatment Despite Induction of Sperm Deformities1. Biology of Reproduction, 2005, 72, 805-813.	2.7	55
39	Incorporation of the acrosome into the oocyte during intracytoplasmic sperm injection could be potentially hazardous to embryo development. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14209-14214.	7.1	88
40	Adult mice cloned from migrating primordial germ cells. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 11361-11366.	7.1	51
41	Production of inbred and hybrid transgenic mice carrying large (> 200 kb) foreign DNA fragments by intracytoplasmic sperm injection. Molecular Reproduction and Development, 2005, 72, 329-335.	2.0	27
42	Recombinase-mediated mouse transgenesis by intracytoplasmic sperm injection. Theriogenology, 2005, 64, 1704-1715.	2.1	28
43	Intracytoplasmic injection of spermatozoa and spermatogenic cells: its biology and applications in humans and animals. Reproductive BioMedicine Online, 2005, 10, 247-288.	2.4	172
44	Health Consequences of Cloning Mice. , 2005, , .		0
45	Freeze-Dried Sperm Fertilization Leads to Full-Term Development in Rabbits1. Biology of Reproduction, 2004, 70, 1776-1781.	2.7	167
46	Abnormalities and Reduced Reproductive Potential of Sperm from Tnp1- and Tnp2-Null Double Mutant Mice1. Biology of Reproduction, 2004, 71, 1220-1229.	2.7	136
47	Production of fertile offspring from genetically infertile male mice. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 1691-1695.	7.1	49
48	The Sall3 locus is an epigenetic hotspot of aberrant DNA methylation associated with placentomegaly of cloned mice. Genes To Cells, 2004, 9, 253-260.	1.2	80
49	Transition nuclear proteins are required for normal chromatin condensation and functional sperm development. Genesis, 2004, 38, 200-213.	1.6	169
50	Different molecular mechanisms underlie placental overgrowth phenotypes caused by interspecies hybridization, cloning, andEsx1mutation. Developmental Dynamics, 2004, 230, 149-164.	1.8	54
51	Skewed X-inactivation in cloned mice. Biochemical and Biophysical Research Communications, 2004, 321, 38-44.	2.1	34
52	Avian chromosomes can be examined by injection of erythrocyte nuclei into mouse oocytes. Hereditas, 2003, 138, 158-159.	1.4	2
53	Fertilization and development initiation in orthodox and unorthodox ways: From normal fertilization to cloning. Advances in Biophysics, 2003, 37, 49-89.	0.5	17
54	Inability of mature oocytes to create functional haploid genomes from somatic cell nuclei. Fertility and Sterility, 2003, 79, 216-218.	1.0	33

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55	Incomplete reactivation of Oct4-related genes in mouse embryos cloned from somatic nuclei. Development (Cambridge), 2003, 130, 1673-1680.	2.5	406
56	Effect of pH Value of Freeze-Drying Solution on the Chromosome Integrity and Developmental Ability of Mouse Spermatozoa1. Biology of Reproduction, 2003, 68, 136-139.	2.7	96
57	Mouse Preimplantation Embryos Developed from Oocytes Injected with Round Spermatids or Spermatozoa Have Similar but Distinct Patterns of Early Messenger RNA Expression. Biology of Reproduction, 2003, 69, 1170-1176.	2.7	67
58	Reprogramming of primordial germ cells begins before migration into the genital ridge, making these cells inadequate donors for reproductive cloning. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 12207-12212.	7.1	166
59	Tolerance of the Mouse Sperm Nuclei to Freeze-Drying Depends on Their Disulfide Status1. Biology of Reproduction, 2003, 69, 1859-1862.	2.7	82
60	Mouse Round Spermatids Developed In Vitro from Preexisting Spermatocytes Can Produce Normal Offspring by Nuclear Injection into In Vivo-Developed Mature Oocytes1. Biology of Reproduction, 2003, 69, 169-176.	2.7	62
61	Efficiency and Safety of Animal Cloning. Advances in Experimental Medicine and Biology, 2003, 518, 247-252.	1.6	1
62	Long-Term Preservation of Mouse Spermatozoa after Freeze-Drying and Freezing Without Cryoprotection1. Biology of Reproduction, 2003, 69, 2100-2108.	2.7	141
63	Phenotype of Cloned Mice: Development, Behavior, and Physiology. Experimental Biology and Medicine, 2003, 228, 1193-1200.	2.4	33
64	Abnormal gene expression in cloned mice derived from embryonic stem cell and cumulus cell nuclei. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 12889-12894.	7.1	381
65	Separation of Motile Populations of Spermatozoa Prior to Freezing Is Beneficial for Subsequent Fertilization In Vitro: A Study with Various Mouse Strains1. Biology of Reproduction, 2002, 67, 287-292.	2.7	42
66	Full-Term Development of Golden Hamster Oocytes Following Intracytoplasmic Sperm Head Injection. Biology of Reproduction, 2002, 67, 534-539.	2.7	79
67	Transgene Insertion Induced Dominant Male Sterility and Rescue of Male Fertility Using Round Spermatid Injection1. Biology of Reproduction, 2002, 66, 726-734.	2.7	32
68	Intracytoplasmic Sperm Injection Is More Efficient than In Vitro Fertilization for Generating Mouse Embryos from Cryopreserved Spermatozoa1. Biology of Reproduction, 2002, 67, 1278-1284.	2.7	71
69	Epigenetics by DNA methylation for development of normal and cloned animals. Differentiation, 2002, 69, 162-166.	1.9	70
70	Cloned mice have an obese phenotype not transmitted to their offspring. Nature Medicine, 2002, 8, 262-267.	30.7	345
71	Epigenetic Instability in ES Cells and Cloned Mice. Science, 2001, 293, 95-97.	12.6	687
72	DNA methylation variation in cloned mice. Genesis, 2001, 30, 45-50.	1.6	212

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73	Mouse cloning with nucleus donor cells of different age and type. Molecular Reproduction and Development, 2001, 58, 376-383.	2.0	306
74	Comparison of intracytoplasmic sperm injection for inbred and hybrid mice. Molecular Reproduction and Development, 2001, 60, 74-78.	2.0	49
75	Contribution of cumulus cells and serum to the maturation of oocyte cytoplasm as revealed by intracytoplasmic sperm injection (ICSI). Zygote, 2001, 9, 277-282.	1.1	29
76	Placentomegaly in Cloned Mouse Concepti Caused by Expansion of the Spongiotrophoblast Layer1. Biology of Reproduction, 2001, 65, 1813-1821.	2.7	209
77	Offspring from Normal Mouse Oocytes Injected with Sperm Heads from the azh/azh Mouse Display More Severe Sperm Tail Abnormalities than the Original Mutant1. Biology of Reproduction, 2001, 64, 249-256.	2.7	36
78	Further evidence that sperm nuclear proteins are necessary for embryogenesis. Zygote, 2000, 8, 51-56.	1.1	41
79	Mouse embryonic stem (ES) cell lines established from neuronal cell-derived cloned blastocysts. Genesis, 2000, 28, 156-163.	1.6	115
80	Nuclear transfer into mouse zygotes. Nature Genetics, 2000, 24, 108-109.	21.4	144
81	Generation of mice from wild-type and targeted ES cells by nuclear cloning. Nature Genetics, 2000, 24, 109-110.	21.4	327
82	Cloning of mice to six generations. Nature, 2000, 407, 318-319.	27.8	242
83	Birth of mice after nuclear transfer by electrofusion using tail tip cells. Molecular Reproduction and Development, 2000, 57, 55-59.	2.0	126
84	Sonication Per Se Is Not as Deleterious to Sperm Chromosomes as Previously Inferred1. Biology of Reproduction, 2000, 63, 341-346.	2.7	106
85	Postnatal Growth and Behavioral Development of Mice Cloned from Adult Cumulus Cells1. Biology of Reproduction, 2000, 63, 328-334.	2.7	155
86	X-Chromosome Inactivation in Cloned Mouse Embryos. Science, 2000, 290, 1578-1581.	12.6	240
87	An Intact Sperm Nuclear Matrix May Be Necessary for the Mouse Paternal Genome to Participate in Embryonic Development1. Biology of Reproduction, 1999, 60, 702-706.	2.7	109
88	Chromosome Analysis of BALB/c Mouse Spermatozoa with Normal and Abnormal Head Morphology1. Biology of Reproduction, 1999, 61, 809-812.	2.7	80
89	Cloning of male mice from adult tail-tip cells. Nature Genetics, 1999, 22, 127-128.	21.4	443
90	Bypassing spermiogenesis for several generations does not have detrimental consequences on the fertility and neurobehavior of offspring: a study using the mouse. Journal of Assisted Reproduction and Genetics, 1999, 16, 315-324.	2.5	21

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91	Mammalian Transgenesis by Intracytoplasmic Sperm Injection. Science, 1999, 284, 1180-1183.	12.6	381
92	Comparison of Oocyte-Activating Agents for Mouse Cloning. Cloning, 1999, 1, 153-159.	2.1	92
93	Cloning the laboratory mouse. Seminars in Cell and Developmental Biology, 1999, 10, 253-258.	5.0	71
94	Development of normal mice from oocytes injected with freeze-dried spermatozoa. Nature Biotechnology, 1998, 16, 639-641.	17.5	333
95	Factors Affecting Meiotic and Developmental Competence of Primary Spermatocyte Nuclei Injected into Mouse Oocytes1. Biology of Reproduction, 1998, 59, 871-877.	2.7	74
96	Fate of microinjected spermatid mitochondria in the mouse oocyte and embryo. Zygote, 1998, 6, 213-222.	1.1	69
97	Sperm nuclear envelope: breakdown of intrinsic envelope andde novoformation in hamster oocytes or eggs. Zygote, 1997, 5, 35-46.	1.1	21
98	Inadequate function of steriletw5/tw32 spermatozoa overcome by intracytoplasmic sperm injection. Molecular Reproduction and Development, 1996, 44, 230-233.	2.0	29
99	The use of piezo micromanipulation for intracytoplasmic sperm injection of human oocytes. Journal of Assisted Reproduction and Genetics, 1996, 13, 320-328.	2.5	81
100	Spontaneous and sperm-induced activation of oocytes in LT/Sv strain mice. Development Growth and Differentiation, 1995, 37, 679-685.	1.5	13
101	Moderate heat treatment increases the penetrability of zonae pellucidae of salt-stored mammalian oocytes by spermatozoa. Zygote, 1993, 1, 345-351.	1.1	2
102	[20] Detection of sperm-egg fusion. Methods in Enzymology, 1993, 221, 249-260.	1.0	6
103	The Viability of Hamster Spermatozoa Stored in the Isthmus of the Oviduct: The Importance of Sperm-Epithelium Contact for Sperm Survival1. Biology of Reproduction, 1990, 42, 450-457.	2.7	189
104	Changes in the distribution of intramembranous particles and filipin-reactive membrane sterols during in vitro capacitation of golden hamster spermatozoa. Gamete Research, 1989, 23, 335-347.	1.7	58
105	A glycoprotein of oviductal origin alters biochemical properties of the zona pellucida of hamster egg. Gamete Research, 1988, 19, 113-122.	1.7	98
106	Human sperm nuclei can transform into condensed chromosomes inXenopus egg extracts. Gamete Research, 1988, 20, 1-9.	1.7	35
107	Chapter 1 Spermâ€“Egg Fusion. Current Topics in Membranes and Transport, 1988, 32, 3-43.	0.6	73
108	Ovarian Histopathology of Bitches Immunized With Porcine Zonae Pellucidae. American Journal of Reproductive Immunology and Microbiology: AJRIM, 1988, 18, 94-103.	1.4	80

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109	Acrosome reaction in human spermatozoa. Fertility and Sterility, 1986, 45, 701-707.	1.0	78
110	Development of pronuclei from human spermatozoa injected microsurgically into frog (Xenopus) eggs. The Journal of Experimental Zoology, 1986, 237, 319-325.	1.4	38
111	Alteration of sperm thiol-disulfide status and capacitation in the guinea pig. Gamete Research, 1986, 13, 93-102.	1.7	17
112	Requirement of monovalent cations in the acrosome reaction of guinea pig spermatozoa. Gamete Research, 1986, 15, 285-294.	1.7	11
113	A further study of lysolecithin?mediated acrosome rection of guinea pig spermatozoa. Gamete Research, 1985, 11, 29-40.	1.7	59
114	The kinetics of human sperm binding to the human zona pellucida and zona-free hamster oocyte in vitro. Gamete Research, 1985, 12, 29-39.	1.7	68
115	The status of acrosomal caps of hamster spermatozoa immediately before fertilization in vivo. Gamete Research, 1984, 9, 1-19.	1.7	150
116	The pH dependence of motility and the acrosome reaction of guinea pig spermatozoa. Gamete Research, 1984, 10, 1-8.	1.7	29
117	Evidence suggesting the importance of fatty acids and the fatty acid moieties of sperm membrane phospholipids in the acrosome reaction of guinea pig spermatozoa. The Journal of Experimental Zoology, 1984, 229, 485-489.	1.4	41
118	What functions of the sperm cell are measured by in vitro fertilization of zona-free hamster eggs?. Fertility and Sterility, 1983, 40, 344-352.	1.0	98
119	Fertile life of acrosome-reacted guinea pig spermatozoa. The Journal of Experimental Zoology, 1982, 220, 109-115.	1.4	79
120	Infertility in bitches induced by active immunization with porcine zonae pellucidae. The Journal of Experimental Zoology, 1982, 222, 89-95.	1.4	63
121	Acceleration of acrosome reaction in hamster spermatozoa by lysolecithin. The Journal of Experimental Zoology, 1982, 224, 259-263.	1.4	60
122	Sperm autoantigens and fertilization. III. Ultrastructural localization of guinea pig autoantigens. The Anatomical Record, 1982, 202, 241-253.	1.8	10
123	Phospholipase A of Guinea Pig Spermatozoa: Its Preliminary Characterization and Possible Involvement in the Acrosome Reaction. (guinea pig/spermatozoa/acrosome reaction/phospholipase A). Development Growth and Differentiation, 1982, 24, 305-310.	1.5	51
124	Effects of various lipids on the acrosome reaction and fertilizing capacity of guinea pig spermatozoa with special reference to the possible involvement of lysophospholipids in the acrosome reaction. Gamete Research, 1981, 4, 253-273.	1.7	188
125	Sperm Autoantigens and Fertilization: II. Effects of Anti-Guinea Pig Sperm Autoantibodies on Sperm-Ovum Interactions. Biology of Reproduction, 1981, 24, 512-518.	2.7	64
126	Fertilization by Guinea Pig Spermatozoa Requires Potassium Ions. Biology of Reproduction, 1981, 25, 639-648.	2.7	33

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127	Penetration of Human Spermatozoa into the Human Zona Pellucida and the Zona-Free Hamster Egg: A Study of Fertile Donors and Infertile Patients**Supported in part by a grant from the International Planned Parenthood Federation (to R. Y.).. Fertility and Sterility, 1980, 33, 534-542.	1.0	340
128	REVERSIBLE INHIBITION OF SPERM-EGG FUSION IN THE HAMSTER BY LOW PH*. Development Growth and Differentiation, 1980, 22, 281-288.	1.5	20
129	Glucose effect on respiration: Possible mechanism for capacitation in guinea pig spermatozoa. The Journal of Experimental Zoology, 1979, 207, 107-112.	1.4	35
130	Prevention of in vitro fertilization of canine oocytes by anti-ovary antisera: A potential approach to fertility control in the bitch. The Journal of Experimental Zoology, 1979, 210, 129-135.	1.4	10
131	Cell surface changes in the proteins of rabbit spermatozoa during epididymal passage. Gamete Research, 1979, 2, 153-162.	1.7	36
132	Fertilizability of cryopreserved zona-free hamster ova. Gamete Research, 1979, 2, 357-366.	1.7	31
133	Retention of Biologic Characteristics of Zona Pellucida in Highly Concentrated Salt Solution: The Use of Salt-Stored Eggs for Assessing the Fertilizing Capacity of Spermatozoa. Fertility and Sterility, 1979, 31, 562-574.	1.0	221
134	Effects of Human Seminal Plasma on Fertilizing Capacity of Human Spermatozoa. Fertility and Sterility, 1979, 31, 321-327.	1.0	143
135	Direct analysis of the chromosome constitution of human spermatozoa. Nature, 1978, 274, 911-913.	27.8	424
136	Capacitation, acrosome reaction, and egg penetration by canine spermatozoa in a simple defined medium. Gamete Research, 1978, 1, 101-109.	1.7	115
137	The Effects of Sperm Extracts and Energy Sources on the Motility and Acrosome Reaction of Hamster Spermatozoa in vitro. Biology of Reproduction, 1977, 16, 228-237.	2.7	360
138	Behavior of hamster sperm nuclei incorporated into eggs at various stages of maturation, fertilization, and early development. The appearance and disappearance of factors involved in sperm chromatin decondensation in egg cytoplasm. Journal of Ultrastructure Research, 1976, 57, 276-288.	1.1	213
139	Maturation and sperm penetration of canine ovarian oocytes in vitro. The Journal of Experimental Zoology, 1976, 196, 189-195.	1.4	184
140	Competitive Effect of Magnesium on the Calcium-Dependent Acrosome Reaction in Guinea Pig Spermatozoa. Biology of Reproduction, 1976, 15, 614-619.	2.7	37
141	Is calcium ionophore a universal activator for unfertilised eggs?. Nature, 1974, 252, 41-43.	27.8	412
142	Reproductive Development in the Female Golden Hamster in Relation to Spontaneous Estrus. Biology of Reproduction, 1970, 2, 223-229.	2.7	15