

Ann Van Soom

List of Publications by Year in descending order

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84
papers

2,153
citations

218381

26
h-index

253896

43
g-index

86
all docs

86
docs citations

86
times ranked

2340
citing authors

#	ARTICLE	IF	CITATIONS
1	Cell allocation to the inner cell mass and the trophectoderm in bovine embryos cultured in two different media. <i>Molecular Reproduction and Development</i> , 1996, 45, 171-182.	1.0	130
2	Alternative Routes to Induce Naïve Pluripotency in Human Embryonic Stem Cells. <i>Stem Cells</i> , 2015, 33, 2686-2698.	1.4	118
3	Function of the Cumulus Oophorus Before and During Mammalian Fertilization. <i>Reproduction in Domestic Animals</i> , 2002, 37, 144-151.	0.6	95
4	Boar management and semen handling factors affect the quality of boar extended semen. <i>Porcine Health Management</i> , 2017, 3, 15.	0.9	94
5	Assessment of mammalian embryo quality: what can we learn from embryo morphology?. <i>Reproductive BioMedicine Online</i> , 2003, 7, 664-670.	1.1	89
6	Effect of technical settings on canine semen motility parameters measured by the Hamilton-Thorne analyzer. <i>Theriogenology</i> , 2003, 60, 1553-1568.	0.9	89
7	Scrotal insulation and its relationship to abnormal morphology, chromatin protamination and nuclear shape of spermatozoa in Holstein-Friesian and Belgian Blue bulls. <i>Theriogenology</i> , 2011, 76, 1246-1257.	0.9	89
8	Cumulus contributions during bovine fertilization in vitro. <i>Theriogenology</i> , 2003, 60, 135-149.	0.9	86
9	Heat stress responses in spermatozoa: Mechanisms and consequences for cattle fertility. <i>Theriogenology</i> , 2018, 113, 102-112.	0.9	71
10	Genome stability of bovine in vivo-conceived cleavage-stage embryos is higher compared to in vitro-produced embryos. <i>Human Reproduction</i> , 2017, 32, 2348-2357.	0.4	69
11	Differential apoptotic staining of mammalian blastocysts based on double immunofluorescent CDX2 and active caspase-3 staining. <i>Analytical Biochemistry</i> , 2011, 416, 228-230.	1.1	64
12	Why doesn't conventional IVF work in the horse? The equine oviduct as a microenvironment for capacitation/fertilization. <i>Reproduction</i> , 2016, 152, R233-R245.	1.1	60
13	Replication of Cytopathic and Noncytopathic Bovine Viral Diarrhea Virus in Zona- Free and Zona-Intact In Vitro-Produced Bovine Embryos and the Effect on Embryo Quality ¹ . <i>Biology of Reproduction</i> , 1998, 58, 857-866.	1.2	58
14	Suboptimal culture conditions induce more deviations in gene expression in male than female bovine blastocysts. <i>BMC Genomics</i> , 2016, 17, 72.	1.2	58
15	High oxygen tension increases global methylation in bovine 4-cell embryos and blastocysts but does not affect general retrotransposon expression. <i>Reproduction, Fertility and Development</i> , 2016, 28, 948.	0.1	54
16	Autocrine embryotropins revisited: how do embryos communicate with each other in vitro when cultured in groups?. <i>Biological Reviews</i> , 2017, 92, 505-520.	4.7	47
17	Update on mammalian sperm capacitation: how much does the horse differ from other species?. <i>Reproduction</i> , 2019, 157, R181-R197.	1.1	45
18	Isolation and Characterization of Functionally Active Extracellular Vesicles from Culture Medium Conditioned by Bovine Embryos In Vitro. <i>International Journal of Molecular Sciences</i> , 2019, 20, 38.	1.8	44

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19	Proteins involved in embryo-maternal interaction around the signalling of maternal recognition of pregnancy in the horse. <i>Scientific Reports</i> , 2018, 8, 5249.	1.6	43
20	The Equine Embryo Influences Immune-Related Gene Expression in the Oviduct1. <i>Biology of Reproduction</i> , 2016, 94, 36.	1.2	34
21	Effect of blood admixture on in vitro survival of chilled and frozen“thawed canine spermatozoa. <i>Theriogenology</i> , 2004, 61, 1589-1602.	0.9	33
22	Gene expression profiling of pluripotency and differentiation-related markers in cat oocytes and preimplantation embryos. <i>Reproduction, Fertility and Development</i> , 2012, 24, 691.	0.1	32
23	Oviduct Binding and Elevated Environmental pH Induce Protein Tyrosine Phosphorylation in Stallion Spermatozoa1. <i>Biology of Reproduction</i> , 2014, 91, 13.	1.2	31
24	Porcine semen as a vector for transmission of viral pathogens. <i>Theriogenology</i> , 2016, 85, 27-38.	0.9	31
25	Bovine Embryo-Secreted microRNA-30c Is a Potential Non-invasive Biomarker for Hampered Preimplantation Developmental Competence. <i>Frontiers in Genetics</i> , 2019, 10, 315.	1.1	29
26	Proteome of equine oviducal fluid: effects of ovulation and pregnancy. <i>Reproduction, Fertility and Development</i> , 2017, 29, 1085.	0.1	28
27	Exposing dairy bulls to high temperature-humidity index during spermatogenesis compromises subsequent embryo development in vitro. <i>Theriogenology</i> , 2020, 141, 16-25.	0.9	28
28	Extracellular Vesicles from Follicular and Ampullary Fluid Isolated by Density Gradient Ultracentrifugation Improve Bovine Embryo Development and Quality. <i>International Journal of Molecular Sciences</i> , 2021, 22, 578.	1.8	26
29	Individual commitment to a group effect: strengths and weaknesses of bovine embryo group culture. <i>Reproduction</i> , 2014, 148, 519-529.	1.1	25
30	Emerging role of extracellular vesicles in communication of preimplantation embryos in vitro. <i>Reproduction, Fertility and Development</i> , 2017, 29, 66.	0.1	25
31	The Composition of the Microbiota in the Full-Term Fetal Gut and Amniotic Fluid: A Bovine Cesarean Section Study. <i>Frontiers in Microbiology</i> , 2021, 12, 626421.	1.5	25
32	Procaine Induces Cytokinesis in Horse Oocytes via a pH-Dependent Mechanism1. <i>Biology of Reproduction</i> , 2015, 93, 23.	1.2	24
33	Hatching is modulated by microRNA-378a-3p derived from extracellular vesicles secreted by blastocysts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2122708119.	3.3	23
34	An alkaline follicular fluid fraction induces capacitation and limited release of oviduct epithelium-bound stallion sperm. <i>Reproduction</i> , 2015, 150, 193-208.	1.1	18
35	Combined albumin and bicarbonate induces head-to-head sperm agglutination which physically prevents equine sperm“oviduct binding. <i>Reproduction</i> , 2016, 151, 313-330.	1.1	16
36	High temperature-humidity index compromises sperm quality and fertility of Holstein bulls in temperate climates. <i>Journal of Dairy Science</i> , 2020, 103, 9502-9514.	1.4	16

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37	Equine oviduct explant culture: a basic model to decipher embryoâ€œmaternal communication. <i>Reproduction, Fertility and Development</i> , 2014, 26, 954.	0.1	15
38	Dynamics of 5-methylcytosine and 5-hydroxymethylcytosine during pronuclear development in equine zygotes produced by ICSI. <i>Epigenetics and Chromatin</i> , 2017, 10, 13.	1.8	15
39	Follicular fluid during individual oocyte maturation enhances cumulus expansion and improves embryo development and quality in a dose-specific manner. <i>Theriogenology</i> , 2021, 166, 38-45.	0.9	15
40	Blocking connexin channels improves embryo development of vitrified bovine blastocystsâ€. <i>Biology of Reproduction</i> , 2017, 96, 288-301.	1.2	14
41	Blocking connexin channels during vitrification of immature cat oocytes improves maturation capacity after warming. <i>Theriogenology</i> , 2018, 122, 144-149.	0.9	14
42	The Separation and Characterization of Extracellular Vesicles from Medium Conditioned by Bovine Embryos. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2942.	1.8	14
43	Influence of coâ€œculture with denuded oocytes during <i>in vitro</i> maturation on fertilization and developmental competence of cumulusâ€œenclosed porcine oocytes in a defined system. <i>Animal Science Journal</i> , 2016, 87, 503-510.	0.6	12
44	Reproductive performance parameters in a large population of game-ranch white rhinoceroses (<i>Ceratotherium simum simum</i>). <i>PLoS ONE</i> , 2017, 12, e0187751.	1.1	11
45	Urinary specific gravity as an alternative for the normalisation of endocrine metabolite concentrations in giant panda (<i>Ailuropoda melanoleuca</i>) reproductive monitoring. <i>PLoS ONE</i> , 2018, 13, e0201420.	1.1	11
46	pH-dependent effects of procaine on equine gamete activationâ€. <i>Biology of Reproduction</i> , 2019, 101, 1056-1074.	1.2	11
47	Influence of seasonal differences on semen quality and subsequent embryo development of Belgian Blue bulls. <i>Theriogenology</i> , 2020, 158, 8-17.	0.9	10
48	Maternal Recognition of Pregnancy in the Horse: Are MicroRNAs the Secret Messengers?. <i>International Journal of Molecular Sciences</i> , 2020, 21, 419.	1.8	10
49	The Importance of the Periconception Period: Immediate Effects in Cattle Breeding and in Assisted Reproduction Such as Artificial Insemination and Embryo Transfer. <i>Advances in Experimental Medicine and Biology</i> , 2017, 1014, 41-68.	0.8	9
50	Bta-miR-10b Secreted by Bovine Embryos Negatively Impacts Preimplantation Embryo Quality. <i>Frontiers in Genetics</i> , 2019, 10, 757.	1.1	9
51	Canine and Feline Epididymal Semenâ€œA Plentiful Source of Gametes. <i>Animals</i> , 2021, 11, 2961.	1.0	9
52	Cryopreservation of equine oocytes: looking into the crystal ball. <i>Reproduction, Fertility and Development</i> , 2020, 32, 453.	0.1	7
53	Anti-MÃ¼llerian Hormone and OPU-ICSI Outcome in the Mare. <i>Animals</i> , 2021, 11, 2004.	1.0	7
54	New Alternative Mixtures of Cryoprotectants for Equine Immature Oocyte Vitrification. <i>Animals</i> , 2021, 11, 3077.	1.0	7

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55	Serum Anti-MÄ¼llerian Hormone: A Potential Semen Quality Biomarker in Stud Dogs?. <i>Animals</i> , 2022, 12, 323.	1.0	7
56	Lycopene Supplementation to Serum-Free Maturation Medium Improves In Vitro Bovine Embryo Development and Quality and Modulates Embryonic Transcriptomic Profile. <i>Antioxidants</i> , 2022, 11, 344.	2.2	7
57	Alternative models for the study of embryo - maternal cross-talk and signaling molecules from fertilisation to implantation. <i>Reproduction, Fertility and Development</i> , 2011, 23, iii.	0.1	6
58	Asymmetric histone 3 methylation pattern between paternal and maternal pronuclei in equine zygotes. <i>Analytical Biochemistry</i> , 2015, 471, 67-69.	1.1	6
59	Steroids affect gene expression, ciliary activity, glucose uptake, progesterone receptor expression and immunoreactive steroidogenic protein expression in equine oviduct explants in vitro. <i>Reproduction, Fertility and Development</i> , 2016, 28, 1926.	0.1	6
60	In vitro production of bovine embryos derived from individual donors in the CorralÄ® dish. <i>Acta Veterinaria Scandinavica</i> , 2017, 59, 41.	0.5	6
61	DNA counterstaining for methylation and hydroxymethylation immunostaining in bovine zygotes. <i>Analytical Biochemistry</i> , 2014, 454, 14-16.	1.1	5
62	Holding immature bovine oocytes in a commercial embryo holding medium: High developmental competence for up to 10Äh at room temperature. <i>Theriogenology</i> , 2018, 107, 63-69.	0.9	5
63	Histopathological lesions in reproductive organs, distal spinal cord and peripheral nerves of horses naturally infected with <i>Trypanosoma equiperdum</i> . <i>BMC Veterinary Research</i> , 2019, 15, 175.	0.7	5
64	Cell allocation to the inner cell mass and the trophectoderm in bovine embryos cultured in two different media. , 1996, 45, 171.		5
65	Influence of Single Layer Centrifugation with Canicoll on Semen Freezability in Dogs. <i>Animals</i> , 2022, 12, 714.	1.0	5
66	Hampered cumulus expansion of porcine cumulusâ€œocyte complexes by excessive presence of alpha₂-macroglobulin is likely mediated via inhibition of zincâ€œdependent metalloproteases. <i>Animal Science Journal</i> , 2017, 88, 1279-1290.	0.6	4
67	Tissue (re)distribution of <i>Trypanosoma equiperdum</i> in venereal infected and blood transfused horses. <i>Veterinary Parasitology</i> , 2019, 268, 87-97.	0.7	4
68	Trends in Small Animal Reproduction: A Bibliometric Analysis of the Literature. <i>Animals</i> , 2022, 12, 336.	1.0	4
69	Electrically-driven handling of gametes and embryos: taking a step towards the future of ARTs. <i>Lab on A Chip</i> , 2022, 22, 1852-1875.	3.1	4
70	Detailed method description for noninvasive monitoring of differentiation status of human embryonic stem cells. <i>Analytical Biochemistry</i> , 2014, 461, 60-66.	1.1	3
71	Determination of the parental pronuclear origin in bovine zygotes: H3K9me3 versus H3K27me2-3. <i>Analytical Biochemistry</i> , 2016, 510, 76-78.	1.1	3
72	Relationship between semen quality and meat quality traits in Belgian PiÄ©train boars. <i>Livestock Science</i> , 2017, 205, 36-42.	0.6	3

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73	Simulations of osmotic events in vitrification of equine oocytes and porcine embryos. Cryobiology, 2018, 85, 154-155.	0.3	3
74	How Can We Introduce ART into Wild Felid Conservation in Practice? Joint Experience in Semen Collection from Captive Wild Felids in Europe. Animals, 2022, 12, 871.	1.0	3
75	Assessing the impact of minimizing arginine conversion in fully defined SILAC culture medium in human embryonic stem cells. Proteomics, 2016, 16, 2605-2614.	1.3	2
76	Does finasteride treatment for benign prostatic hyperplasia influence sperm DNA integrity in dogs?. Basic and Clinical Andrology, 2020, 30, 9.	0.8	2
77	A triple stain method in conjunction with an in-depth screening of cryopreservation effects on post-thaw sperm in dogs. Cryobiology, 2022, 105, 56-62.	0.3	2
78	Lycopene supplementation to serum-free embryo culture medium and its effect on development and quality of bovine blastocysts produced in vitro. Reproduction in Domestic Animals, 2022, 57, 1277-1279.	0.6	2
79	Reduction of Trypanosoma equiperdum from equine semen by single layer centrifugation. Experimental Parasitology, 2019, 200, 79-83.	0.5	1
80	The effect of season of birth on the morphometrics of newborn Belgian Blue calves. Tropical Animal Health and Production, 2022, 54, 76.	0.5	1
81	Sperm Gone Smart: A Portable Device (iSperm®) to Assess Semen Concentration and Motility in Dogs. Animals, 2022, 12, 652.	1.0	1
82	Developing a reproducible protocol for culturing functional confluent monolayers of differentiated equine oviduct epithelial cells. Biology of Reproduction, 2021, , .	1.2	1
83	Crossbreeding effect of double-muscled cattle on in vitro embryo development and quality. Reproductive Biology, 2020, 20, 288-292.	0.9	0
84	The impact of elective caesarean section on colostrum characteristics in double-muscled Belgian Blue cows. Theriogenology, 2021, 167, 120-125.	0.9	0