Karl C Kerns

List of Publications by Year
in descending order

25 papers	445 citations	933410 10 h-index	752679 20 g-index
26 all docs	26 docs citations	26 times ranked	522 citing authors

#	Article	IF	Citations
1	Zinc ion flux during mammalian sperm capacitation. Nature Communications, 2018, 9, 2061.	12.8	97
2	Zinc: A Necessary Ion for Mammalian Sperm Fertilization Competency. International Journal of Molecular Sciences, 2018, 19, 4097.	4.1	65
3	Regulation of Sperm Capacitation by the 26S Proteasome: An Emerging New Paradigm in Spermatology1. Biology of Reproduction, 2016, 94, 117.	2.7	47
4	Porcine model for the study of sperm capacitation, fertilization and male fertility. Cell and Tissue Research, 2020, 380, 237-262.	2.9	35
5	Sperm Cohort-Specific Zinc Signature Acquisition and Capacitation-Induced Zinc Flux Regulate Sperm-Oviduct and Sperm-Zona Pellucida Interactions. International Journal of Molecular Sciences, 2020, 21, 2121.	4.1	27
6	Modifications of the 26S proteasome during boar sperm capacitation. Cell and Tissue Research, 2018, 372, 591-601.	2.9	24
7	Boar semen improvement through sperm capacitation management, with emphasis on zinc ion homeostasis. Theriogenology, 2019, 137, 50-55.	2.1	24
8	Compartmentalization of the proteasome-interacting proteins during sperm capacitation. Scientific Reports, 2019, 9, 12583.	3.3	23
9	Ubiquitin-proteasome system participates in the de-aggregation of spermadhesins and DQH protein during boar sperm capacitation. Reproduction, 2019, 157, 283-295.	2.6	19
10	Challenges and Considerations during In Vitro Production of Porcine Embryos. Cells, 2021, 10, 2770.	4.1	15
11	An Exploration of Current and Perspective Semen Analysis and Sperm Selection for Livestock Artificial Insemination. Animals, 2021, 11, 3563.	2.3	13
12	Relationship between the Length of Sperm Tail Mitochondrial Sheath and Fertility Traits in Boars Used for Artificial Insemination. Antioxidants, 2020, 9, 1033.	5.1	10
13	Zinc is a master-regulator of sperm function associated with binding, motility, and metabolic modulation during porcine sperm capacitation. Communications Biology, 2022, 5, .	4.4	10
14	Lunar and climatic effects on boar ejaculate traits. Animal Reproduction Science, 2018, 193, 117-125.	1.5	8
15	Reciprocal surface expression of arylsulfatase A and ubiquitin in normal and defective mammalian spermatozoa. Cell and Tissue Research, 2020, 379, 561-576.	2.9	7
16	Progesterone induces porcine sperm release from oviduct glycans in a proteasome-dependent manner. Reproduction, 2021, 161, 449-457.	2.6	7
17	Hyperactivation is sufficient to release porcine sperm from immobilized oviduct glycans. Scientific Reports, 2022, 12, 6446.	3.3	5
18	Pharmacologic treatment with CPI-613 and PS48 decreases mitochondrial membrane potential and increases quantity of autolysosomes in porcine fibroblasts. Scientific Reports, 2019, 9, 9417.	3.3	4

#	Article	IF	Citations
19	A Non-Synonymous Point Mutation in a WD-40 Domain Repeat of EML5 Leads to Decreased Bovine Sperm Quality and Fertility. Frontiers in Cell and Developmental Biology, 2022, 10, 872740.	3.7	3
20	Development of an Improved in vitro Model of Bovine Trophectoderm Differentiation. Frontiers in Animal Science, 0, 3, .	1.9	1
21	Spermatozoan Metabolism as a Non-Traditional Model for the Study of Huntingtonâ€™s Disease. International Journal of Molecular Sciences, 2022, 23, 7163.	4.1	1
22	Xenotransplantation literature update, Marchâ€“April 2015. Xenotransplantation, 2015, 22, 236-238.	2.8	0
23	Xenotransplantation literature update, Januaryâ€“February 2015. Xenotransplantation, 2015, 22, 155-157.	2.8	0
24	Xenotransplantation literature update, January/February 2017. Xenotransplantation, 2017, 24, e12304.	2.8	0
25	Xenotransplantation literature update, May/June 2017. Xenotransplantation, 2017, 24, .	2.8	0