Tushar K Mohanty

List of Publications by Year
in descending order

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104	1,308	361045	476904
papers	citations	20	29
		h-index	g-index

105	105	105	1238
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cryopreservation of bull semen: Evolution from egg yolk based to soybean based extenders. Animal Reproduction Science, 2016, 172, 1-9.	0.5	98
2	Identification of suitable combinations of inÂvitro sperm-function test for the prediction of fertility in buffalo bull. Theriogenology, 2016, 86, 2263-2271.e1.	0.9	58
3	Identification of putative fertility markers in seminal plasma of crossbred bulls through differential proteomics. Theriogenology, 2014, 82, 1254-1262.e1.	0.9	45
4	Subfertility in Males: An Important Cause of Bull Disposal in Bovines. Asian-Australasian Journal of Animal Sciences, 2010, 23, 450-455.	2.4	44
5	Effect of age and season on semen quality parameters in Sahiwal bulls. Tropical Animal Health and Production, 2011, 43, 1161-1168.	0.5	40
6	Profiling of urinary proteins in Karan Fries cows reveals more than 1550 proteins. Journal of Proteomics, 2015, 127, 193-201.	1.2	39
7	Identification of biomarker candidates for fertility in spermatozoa of crossbred bulls through comparative proteomics. Theriogenology, 2018, 119, 43-51.	0.9	37
8	Identification of potential protein biomarkers for early detection of pregnancy in cow urine using 2D DIGE and label free quantitation. Clinical Proteomics, 2016, 13, 15.	1.1	32
9	Behavioural signs of estrus and their relationship to time of ovulation in Zebu (Sahiwal) cattle. Animal Reproduction Science, 2011, 129, 140-145.	0.5	31
10	Comparative Quality Assessment of Buffalo (Bubalus bubalis) Semen Chilled (5Â°C) in Egg Yolkâ€• and Soya Milkâ€“Based Extenders. Reproduction in Domestic Animals, 2012, 47, 596-600.	0.6	30
11	Potential of acute phase proteins as predictor of postpartum uterine infections during transition period and its regulatory mechanism in dairy cattle. Veterinary World, 2016, 9, 91-100.	0.7	29
12	Comparative proteomic analysis of highâ€•and lowâ€fertile buffalo bull spermatozoa for identification of fertilityâ€associated proteins. Reproduction in Domestic Animals, 2019, 54, 786-794.	0.6	29
13	Reproductive Performance of Dairy Buffaloes Supplemented with Varying Levels of Vitamin E. Asian-Australasian Journal of Animal Sciences, 2006, 19, 19-25.	2.4	28
14	Differential proteomic profile of spermatogenic and Sertoli cells from peri-pubertal testes of three different bovine breeds. Frontiers in Cell and Developmental Biology, 2014, 2, 24.	1.8	27
15	Effects of pedigree and exotic genetic inheritance on semen production traits of dairy bulls. Asian Pacific Journal of Reproduction, 2014, 3, 13-17.	0.2	27
16	Effective and accurate discrimination of individual dairy cattle through acoustic sensing. Applied Animal Behaviour Science, 2013, 146, 11-18.	0.8	26
17	Expression of short chain fatty acid receptors and pro-inflammatory cytokines in utero-placental tissues is altered in cows developing retention of fetal membranes. Placenta, 2014, 35, 455-460.	0.7	25
18	Comparative proteomic analysis of Taurine, Indicine, and crossbred (Bos taurus Ã— Bos indicus) bull spermatozoa for identification of proteins related to sperm malfunctions and subfertility in crossbred bulls. Theriogenology, 2015, 84, 624-633.	0.9	24

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19	Application of pre-partum feeding and social behaviour in predicting risk of developing metritis in crossbred cows. Applied Animal Behaviour Science, 2012, 139, 10-17.	0.8	22
20	Spermatozoa with high mitochondrial membrane potential and low tyrosine phosphorylation preferentially bind to oviduct explants in the water buffalo (Bubalus bubalis). Animal Reproduction Science, 2017, 180, 30-36.	0.5	22
21	Effect of cryopreservation on sperm chromatin integrity and fertilizing potential in bovine semen. Livestock Science, 2011, 136, 114-121.	0.6	21
22	Targeted antioxidant delivery modulates mitochondrial functions, ameliorates oxidative stress and preserve sperm quality during cryopreservation. Theriogenology, 2022, 179, 22-31.	0.9	21
23	Modulation of postâ€partum reproductive performance in dairy cows through supplementation of longâ€• or shortâ€chain fatty acids during transition period. Journal of Animal Physiology and Animal Nutrition, 2015, 99, 1056-1064.	1.0	19
24	Sperm functional attributes and oviduct explant binding capacity differs between bulls with different fertility ratings in the water buffalo (Bubalus bubalis). Reproduction, Fertility and Development, 2019, 31, 395.	0.1	19
25	Tissue-specific promoter methylation coincides with Cyp19 gene expression in buffalo (Bubalus) Tj ETQq1 1 0.784314 rgBT /Overlock 1 182-189.	0.8	18
26	Differential methylation status of IGF2â€H19 locus does not affect the fertility of crossbred bulls but some of the CTCF binding sites could be potentially important. Molecular Reproduction and Development, 2014, 81, 350-362.	1.0	18
27	Characterization of physico-chemical properties of cervical mucus in relation to parity and conception rate in Murrah buffaloes. Veterinary World, 2014, 7, 467-471.	0.7	18
28	Morphometric evaluation of seminiferous tubule and proportionate numerical analysis of Sertoli and spermatogenic cells indicate differences between crossbred and purebred bulls. Veterinary World, 2015, 8, 645-650.	0.7	18
29	Alteration in peripheral blood concentration of certain pro-inflammatory cytokines in cows developing retention of fetal membranes. Animal Reproduction Science, 2015, 157, 11-16.	0.5	17
30	Comparative evidence support better antioxidant efficacy of mitochondrial-targeted (Mitoquinone) than cytosolic (Resveratrol) antioxidant in improving in-vitro sperm functions of cryopreserved buffalo (Bubalus bubalis) semen. Cryobiology, 2021, 101, 125-134.	0.3	17
31	Testicular Cell Indices and Peripheral Blood Testosterone Concentrations in Relation to Age and Semen Quality in Crossbred (Holstein FriesianÃ—Tharparkar) Bulls. Asian-Australasian Journal of Animal Sciences, 2014, 27, 1554-1561.	2.4	16
32	RNA-Seq analysis reveals functionally relevant coding and non-coding RNAs in crossbred bull spermatozoa. Animal Reproduction Science, 2020, 222, 106621.	0.5	15
33	The Effect of Anti-coagulants on the Osmotic Fragility of Erythrocytes in the Yak(Poephagus) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.6	14
34	Risk factors and impact of retained fetal membranes on performance of dairy bovines reared under subtropical conditions. Tropical Animal Health and Production, 2015, 47, 285-290.	0.5	14
35	Functional characterization of Mammary Gland Protein-40, a chitinase-like glycoprotein expressed during mammary gland apoptosis. Apoptosis: an International Journal on Programmed Cell Death, 2016, 21, 209-224.	2.2	14
36	Global proteomic analysis of water buffalo (Bubalus bubalis) saliva at different stages of estrous cycle using high throughput mass spectrometry. Theriogenology, 2018, 110, 52-60.	0.9	14

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37	Relationship of Blood Metabolites with Reproductive Parameters during Various Seasons in Murrah Buffaloes. Asian-Australasian Journal of Animal Sciences, 2011, 24, 1192-1198.	2.4	13
38	Cervical mucus characteristics and periestrual hormone concentration in relation to ovulation time in Zebu (Sahiwal) cattle. Livestock Science, 2013, 152, 273-281.	0.6	12
39	Improvement in sperm functional competence through modified lowâ€dose packaging in French mini straws of bull semen. Andrologia, 2018, 50, e13003.	1.0	12
40	Sperm protein carbonylation. Andrologia, 2019, 51, e13233.	1.0	12
41	Semen analysis and sperm characteristics of Karan Fries cattle. Animal Reproduction Science, 2020, 212, 106250.	0.5	12
42	Term placenta shows methylation independent down regulation of Cyp19 gene in animals with retained fetal membranes. Research in Veterinary Science, 2012, 92, 53-59.	0.9	11
43	Effect of preputial washing on bacterial load and preservability of semen in Murrah buffalo bulls. Veterinary World, 2015, 8, 798-803.	0.7	11
44	Effect of restricted feeding and refeeding on compensatory growth, nutrient utilization and gain, production performance and whole body composition of carp cultured in earthen pond. Aquaculture Nutrition, 2017, 23, 460-469.	1.1	11
45	ROC analysis of prepartum feeding time can accurately predict postpartum metritis development in HF crossbred cows. Journal of Veterinary Behavior: Clinical Applications and Research, 2013, 8, 362-366.	0.5	9
46	Metabolic indicators for retention of fetal membranes in Zebu and crossbred dairy cattle. Animal Production Science, 2016, 56, 1113.	0.6	9
47	Development of an in vitro oviduct epithelial explants model for studying spermâ€“oviduct binding in the buffalo. Reproduction in Domestic Animals, 2017, 52, 687-691.	0.6	9
48	Transcriptional abundance of antioxidant enzymes in endometrium and their circulating levels in Zebu cows with and without uterine infection. Animal Reproduction Science, 2017, 177, 79-87.	0.5	9
49	Sexual behavior and its relationship with semen quality parameters in Sahiwal breeding bulls. Veterinary World, 2015, 8, 745-749.	0.7	9
50	Effect of lameness (hoof disorders) on productivity of Karan Fries crossbred cows. Animal Science Journal, 2011, 82, 169-174.	0.6	8
51	Postnatal persistence of foetal haemoglobin in yaks. Australian Veterinary Journal, 1999, 77, 190-190.	0.5	7
52	Effect of FMD vaccination on semen quality parameters in Karan Fries and Murrah buffalo bulls. Tropical Animal Health and Production, 2010, 42, 1363-1366.	0.5	7
53	Efficiency of uterine fluid cytology in the diagnosis of subclinical endometritis in the water buffalo (Bubalus bubalis). Reproduction in Domestic Animals, 2017, 52, 513-516.	0.6	7
54	Incubation of spermatozoa with Anandamide prior to cryopreservation reduces cryocapacitation and improves post-thaw sperm quality in the water buffalo (Bubalus bubalis). Animal Reproduction Science, 2018, 189, 77-83.	0.5	7

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55	Spermatozoa produced during winter are superior in terms of phenotypic characteristics and oviduct explants binding ability in the water buffalo (Bubalus bubalis). Reproduction in Domestic Animals, 2020, 55, 1629-1637.	0.6	7
56	Modification of French mini-straw plug position for cryopreservation of small doses of bull sperm. Animal Reproduction Science, 2020, 218, 106485.	0.5	7
57	Effect of Antioxidant Preservative on Cold Protection Ability of Low Grade Riverine Buffalo (Bubalus) Tj ETQq1 1 0.784314 rgBT /Overlo	2.4	7
58	Comparative Proteome Profiling of Saliva Between Estrus and Non-Estrus Stages by Employing Label-Free Quantitation (LFQ) and Tandem Mass Tag (TMT)-LC-MS/MS Analysis: An Approach for Estrus Biomarker Identification in Bubalus bubalis. Frontiers in Genetics, 2022, 13, .	1.1	7
59	Development of a wireless sensor network for animal management: Experiences with Moosense. , 2014, , .		6
60	Anandamide exerts a suppressive effect on sperm binding to oviduct explants through CB1 receptors in the water buffalo (Bubalus bubalis). Animal Reproduction Science, 2017, 185, 188-194.	0.5	6
61	Behavioural signs of estrus in different parity of murrah buffaloes (Bubalus bubalis): a comparative study. Indian Journal of Animal Research, 2014, 48, 620.	0.0	5
62	Transcriptional abundance of type-1 endocannabinoid receptor (CB1) and fatty acid amide hydrolase (FAAH) in bull spermatozoa: Relationship with field fertility. Theriogenology, 2018, 114, 252-257.	0.9	5
63	Determinants of Inequality in Dairy Development of India. The National Academy of Sciences, India, 2019, 42, 195-198.	0.8	5
64	Seasonal variations in hormones and enzymes of seminal plasma and its relationship with semen quality in crossbred cattle bulls. Biological Rhythm Research, 2020, 51, 633-643.	0.4	5
65	Laser irradiation effects and its possible mechanisms of action on spermatozoa functions in domestic animals. Asian Pacific Journal of Reproduction, 2017, 6, 97-103.	0.2	5
66	Effect of short-term cooling on core body temperature, plasma cortisol and conception rate in Murrah buffalo heifers during hot-humid season. Journal of Applied Animal Research, 2016, 44, 281-286.	0.4	4
67	Effect of functional traits on subsequent reproduction performance of Murrah buffaloes in India. Journal of Applied Animal Research, 2017, 45, 22-28.	0.4	4
68	Biochemical analysis of uterine fluid for identification of indicators for subclinical endometritis in the water buffalo (Bubalus bubalis). Reproduction in Domestic Animals, 2018, 53, 48-53.	0.6	4
69	Influence of season and climatic variables on testicular cytology, semen quality and melatonin concentrations in crossbred bucks reared under subtropical climate. International Journal of Biometeorology, 2018, 62, 1709-1719.	1.3	4
70	Computer assisted sperm analysis: Relationship between the movement characteristics of buffalo spermatozoa and sire fertility. Indian Journal of Animal Research, 2015, , .	0.0	4
71	Iodine Supplementation Improved Antioxidant Status, Hormonal Status, Sexual Behavior, and Semen Production Performance of Bos indicus Bulls Under Tropical Climatic Condition. Biological Trace Element Research, 2022, , 1.	1.9	4
72	Testicular cytology indicates differences in Sertoli cell counts between "good freezer" and "poor freezer" bulls. Indian Journal of Experimental Biology, 2016, 54, 17-25.	0.5	4

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73	Pyrrolizidine alkaloid poisoning in yak. Veterinary Record, 1999, 144, 508-509.	0.2	3
74	Effects of temperature and pH on the osmotic fragility of erythrocytes of yaks. Australian Veterinary Journal, 1999, 77, 188-189.	0.5	3
75	Assessment of superovulatory responses in terms of palpable corpora lutea and embryo recovery using plasma progesterone in yaks (Poephagus grunniens L.). Research in Veterinary Science, 2008, 85, 233-237.	0.9	3
76	Comparative expression profiling of insulin-like growth factor binding protein-5 in milk of Bos indicus and Bubalus bubalis during lactation. Animal, 2015, 9, 643-649.	1.3	3
77	Age-related changes in transcriptional abundance and circulating levels of anti-Mullerian hormone and Sertoli cell count in crossbred and Zebu bovine males. Theriogenology, 2017, 89, 1-8.	0.9	3
78	Preference of side and standing in relationship with milking characteristics and temperament score of crossbred dairy cows in an 8 Ã— 2 herringbone milking parlour. Turkish Journal of Veterinary and Animal Sciences, 2018, 42, 49-54.	0.2	3
79	Targeted transcript analysis revealed association of suboptimal expression of certain endometrial immunity-related genes with disparate uterine diseases in zebu cows. Tropical Animal Health and Production, 2019, 51, 2493-2503.	0.5	3
80	Effect of cattle-specific estrus molecules on libido and semen production of zebu bulls under tropical climate. Tropical Animal Health and Production, 2019, 51, 1823-1827.	0.5	3
81	Cholesterolâ€loaded cyclodextrin attenuates dilution effect and improves quality of bovine low sperm insemination doses during cryopreservation. Andrologia, 2021, 53, e14202.	1.0	3
82	Evaluation of Processed Rain Tree (Samanea saman) Pod Meal as a Non-conventional Ingredient in the Diet of Catla catla Fry. Animal Nutrition and Feed Technology, 2017, 17, 323.	0.1	3
83	Prediction of lameness based on the percent body weight distribution to individual limbs of Karan Fries cows. Indian Journal of Animal Research, 2015, 49, 392.	0.0	3
84	Study on Suitable Semen Additives Incorporation into the Extender Stored at Refrigerated Temperature. Asian-Australasian Journal of Animal Sciences, 2011, 24, 1348-1357.	2.4	3
85	Luteinizing hormone, testosterone and total estrogens response to exogenous GnRH in crossbred bulls with differing semen quality. Livestock Science, 2015, 174, 150-153.	0.6	2
86	Metabolic indicators for early pregnancy in zebu and crossbreddairy cows reared in a subtropical climate. Turkish Journal of Veterinary and Animal Sciences, 2017, 41, 407-413.	0.2	2
87	Effect of Dietary Copper and Zinc Supplementation on Semen Quality of Murrah Bulls. Indian Journal of Animal Research, 2020, , .	0.0	2
88	Detection of lameness of cow based on body weight using artificial neural network. , 2014, , .		1
89	Association of Peri-partum Blood Energy Metabolites with Post-partum Puerperal Metritis in Crossbred Cows. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2018, 88, 93-99.	0.4	1
90	Effect of automatic cluster remover settings on milkability, milk quality and milking irregularities of crossbred cows. Journal of Dairy Research, 2019, 86, 196-200.	0.7	1

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91	Characterization of buffalo native pregnancy-associated glycoprotein: mass spectrometry-based glycan composition analysis, sugar-binding characteristics and proteolytic activity assay. Journal of Proteins and Proteomics, 2019, 10, 23-32.	1.0	1
92	Supplementing extender with anandamide enhances quality of low sperm doses during cryopreservation in bulls. Andrologia, 2020, 52, e13782.	1.0	1
93	Evaluation of mahua oilcake (Bassia latifolia Roxb.) as a non-conventional feed ingredient for Labeo rohita (Ham.) fingerlings. Indian Journal of Fisheries, 2017, 64, .	0.3	1
94	Relative efficiency of sterilization methods for the treatment of glassware part of artificial vagina to be used for bovine semen collection. Applied Biological Research, 2014, 16, 95.	0.1	1
95	Pregnancy diagnosis-positive rate and conception rate as indicator of farm reproductive performance. Indian Journal of Animal Research, 2015, , .	0.0	1
96	Evaluation of polanga (Calophyllum inophyllum) oil cake as a non-conventional ingredient in Labeo rohita (Hamilton, 1822) fingerling feed. Indian Journal of Fisheries, 0, 64, .	0.3	1
97	Effect of Dietary Supplementation of Manganese, Chromium and Cobalt on Semen Qualities in Sahiwal Bulls. Indian Journal of Animal Research, 2020, , .	0.0	1
98	Effect of over dilution of semen with tris extender on motion and functional attributes of bull spermatozoa during cryopreservation. Andrologia, 2022, 54, e14478.	1.0	1
99	Effect of long term storage in LN2 on bacterial load and preservability of semen in Murrah bulls. Indian Journal of Animal Research, 2015, , .	0.0	0
100	Effect of dry cow therapy on incidence of clinical mastitis,milk yield and composition in crossbred cows. Indian Journal of Animal Research, 2015, , .	0.0	0
101	Receiver operating characteristic analysis of milk lactosefor identification of mastitis in buffaloes. Indian Journal of Animal Research, 2015, , .	0.0	0
102	Microbial load of frozen thawed Sahiwal semen extended in egg yolk, soya lecithin and liposome based extender. Indian Journal of Animal Research, 2017, , .	0.0	0
103	Effects of prostasomes on functional parameters of fresh and cryopreserved-thawed spermatozoa of crossbred Karan Fries (KF) bulls. Indian Journal of Animal Research, 2018, , .	0.0	0
104	Changes in Teat Morphology (Doka Phenomenon) and Estrus Prediction in Riverine Buffaloes (Bubalus) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.0	0