Guruprasad Kalthur

List of Publications by Year
in descending order

79	1,983	236612 25	288905 40
papers	citations	h-index	g-index

80	80	80	2602
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Skin delivery of epigallocatechin-3-gallate (EGCG) and hyaluronic acid loaded nano-transfersomes for antioxidant and anti-aging effects in UV radiation induced skin damage. Drug Delivery, 2017, 24, 61-74.	2.5	188
2	Vitamin E supplementation in semen-freezing medium improves the motility and protects sperm from freeze-thawâ€“induced DNA damage. Fertility and Sterility, 2011, 95, 1149-1151.	0.5	93
3	Effect of cryopreservation on sperm DNA integrity in patients with teratospermia. Fertility and Sterility, 2008, 89, 1723-1727.	0.5	86
4	Curcumin inhibits telomerase and induces telomere shortening and apoptosis in brain tumour cells. Journal of Cellular Biochemistry, 2013, 114, 1257-1270.	1.2	78
5	Mitochondrial Dysfunction and Oxidative Stress Caused by Cryopreservation in Reproductive Cells. Antioxidants, 2021, 10, 337.	2.2	70
6	Influence of peptide dendrimers and sonophoresis on the transdermal delivery of ketoprofen. International Journal of Pharmaceutics, 2017, 521, 110-119.	2.6	68
7	Supplementing zinc oxide nanoparticles to cryopreservation medium minimizes the freeze-thaw-induced damage to spermatozoa. Biochemical and Biophysical Research Communications, 2017, 494, 656-662.	1.0	67
8	Semen Abnormalities, Sperm DNA Damage and Global Hypermethylation in Health Workers Occupationally Exposed to Ionizing Radiation. PLoS ONE, 2013, 8, e69927.	1.1	66
9	Nano-transfersomal formulations for transdermal delivery of asenapine maleate: in vitro and in vivo performance evaluations. Journal of Liposome Research, 2016, 26, 221-232.	1.5	59
10	Current Insights and Latest Updates in Sperm Motility and Associated Applications in Assisted Reproduction. Reproductive Sciences, 2022, 29, 7-25.	1.1	56
11	Development and evaluation of sunscreen creams containing morin-encapsulated nanoparticles for enhanced UV radiation protection and antioxidant activity. International Journal of Nanomedicine, 2015, 10, 6477.	3.3	55
12	Addition of zinc to human ejaculate prior to cryopreservation prevents freeze-thaw-induced DNA damage and preserves sperm function. Journal of Assisted Reproduction and Genetics, 2012, 29, 1447-1453.	1.2	53
13	Naringin nano-ethosomal novel sunscreen creams: Development and performance evaluation. Colloids and Surfaces B: Biointerfaces, 2020, 193, 111122.	2.5	52
14	Development and performance evaluation of novel nanoparticles of a grafted copolymer loaded with curcumin. International Journal of Biological Macromolecules, 2016, 86, 709-720.	3.6	51
15	Transgenerational changes in somatic and germ line genetic integrity of first-generation offspring derived from the DNA damaged sperm. Fertility and Sterility, 2010, 93, 2486-2490.	0.5	47
16	NMR studies of preimplantation embryo metabolism in human assisted reproductive techniques: a new biomarker for assessment of embryo implantation potential. NMR in Biomedicine, 2013, 26, 20-27.	1.6	44
17	Sperm Oxidative Stress during In Vitro Manipulation and Its Effects on Sperm Function and Embryo Development. Antioxidants, 2021, 10, 1025.	2.2	43
18	Plumbagin alters telomere dynamics, induces DNA damage and cell death in human brain tumour cells. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2015, 793, 86-95.	0.9	39

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19	Sunscreen creams containing naringenin nanoparticles: Formulation development and in vitro and in vivo evaluations. Photodermatology Photoimmunology and Photomedicine, 2018, 34, 69-81.	0.7	35
20	Distribution pattern of cytoplasmic organelles, spindle integrity, oxidative stress, octamer-binding transcription factor 4 (Oct4) expression and developmental potential of oocytes following multiple superovulation. Reproduction, Fertility and Development, 2016, 28, 2027.	0.1	32
21	Pullulan based stimuli responsive and sub cellular targeted nanoplatforms for biomedical application: Synthesis, nanoformulations and toxicological perspective. International Journal of Biological Macromolecules, 2020, 161, 1189-1205.	3.6	32
22	Methyl parathion inhibits the nuclear maturation, decreases the cytoplasmic quality in oocytes and alters the developmental potential of embryos of Swiss albino mice. Toxicology and Applied Pharmacology, 2014, 279, 338-350.	1.3	31
23	Association between sperm DNA integrity and seminal plasma antioxidant levels in health workers occupationally exposed to ionizing radiation. Environmental Research, 2014, 132, 297-304.	3.7	30
24	Ovarian tissue vitrification is more efficient than slow freezing in protecting oocyte and granulosa cell DNA integrity. Systems Biology in Reproductive Medicine, 2014, 60, 317-322.	1.0	29
25	Ethanolic extract of Moringa oleifera leaves alleviate cyclophosphamide-induced testicular toxicity by improving endocrine function and modulating cell specific gene expression in mouse testis. Journal of Ethnopharmacology, 2020, 259, 112922.	2.0	27
26	Indian propolis ameliorates the mitomycin C-induced testicular toxicity by reducing DNA damage and elevating the antioxidant activity. Biomedicine and Pharmacotherapy, 2017, 95, 252-263.	2.5	26
27	Supplementation of biotin to sperm preparation medium increases the motility and longevity in cryopreserved human spermatozoa. Journal of Assisted Reproduction and Genetics, 2012, 29, 631-635.	1.2	22
28	Ethanolic extract of Moringa oleifera Lam. leaves protect the pre-pubertal spermatogonial cells from cyclophosphamide-induced damage. Journal of Ethnopharmacology, 2016, 182, 101-109.	2.0	22
29	Enhancement of the Response of B16F1 Melanoma to Fractionated Radiotherapy and Prolongation of Survival by Withaferin A and/or Hyperthermia. Integrative Cancer Therapies, 2010, 9, 370-377.	0.8	21
30	Liposome encapsulated soy lecithin and cholesterol can efficiently replace chicken egg yolk in human semen cryopreservation medium. Systems Biology in Reproductive Medicine, 2014, 60, 183-188.	1.0	21
31	Influence of sperm DNA damage on human preimplantation embryo metabolism. Reproductive Biology, 2016, 16, 234-241.	0.9	20
32	Genetic Instability in Lymphocytes is Associated With Blood Plasma Antioxidant Levels in Health Care Workers Occupationally Exposed to Ionizing Radiation. International Journal of Toxicology, 2016, 35, 327-335.	0.6	20
33	Effect of Withaferin A on the Development and Decay of Thermotolerance in B16F1 Melanoma: A Preliminary Study. Integrative Cancer Therapies, 2009, 8, 93-97.	0.8	19
34	Sperm Chromatin Immaturity Observed in Short Abstinence Ejaculates Affects DNA Integrity and Longevity In Vitro. PLoS ONE, 2016, 11, e0152942.	1.1	18
35	Unraveling the association between genetic integrity and metabolic activity in pre-implantation stage embryos. Scientific Reports, 2016, 6, 37291.	1.6	16
36	Laser assisted zona hatching does not lead to immediate impairment in human embryo quality and metabolism. Systems Biology in Reproductive Medicine, 2016, 62, 396-403.	1.0	16

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37	Fertility preservation during the COVID-19 pandemic: mitigating the viral contamination risk to reproductive cells in cryostorage. Reproductive BioMedicine Online, 2020, 41, 991-997.	1.1	16
38	Oncofertility: Knowledge, Attitudes, and Barriers Among Indian Oncologists and Gynecologists. Journal of Adolescent and Young Adult Oncology, 2021, 10, 71-77.	0.7	16
39	Nanoconstructs as a versatile tool for detection and diagnosis of Alzheimer biomarkers. Nanotechnology, 2021, 32, 142002.	1.3	16
40	Cyclodextrins as Carriers in Targeted Delivery of Therapeutic Agents: Focused Review on Traditional and Inimitable Applications. Current Pharmaceutical Design, 2019, 25, 444-454.	0.9	15
41	Supplementation of biotin to sperm preparation medium enhances fertilizing ability of spermatozoa and improves preimplantation embryo development. Journal of Assisted Reproduction and Genetics, 2019, 36, 255-266.	1.2	15
42	Synthesis of novel thiadiazolotriazin-4-ones and study of their mosquito-larvicidal and antibacterial properties. European Journal of Medicinal Chemistry, 2014, 84, 194-199.	2.6	14
43	A Simple, Centrifugation-Free, Sperm-Sorting Device Eliminates the Risks of Centrifugation in the Swim-Up Method While Maintaining Functional Competence and DNA Integrity of Selected Spermatozoa. Reproductive Sciences, 2021, 28, 134-143.	1.1	14
44	Mitigating effect of Indian propolis against mitomycin C induced bone marrow toxicity. Cytotechnology, 2016, 68, 1789-1800.	0.7	13
45	Spent embryo culture medium metabolites are related to the in vitro attachment ability of blastocysts. Scientific Reports, 2018, 8, 17025.	1.6	13
46	The extent of paternal sperm DNA damage influences early post-natal survival of first generation mouse offspring. European Journal of Obstetrics, Gynecology and Reproductive Biology, 2013, 166, 164-167.	0.5	11
47	Association between the extent of DNA damage in the spermatozoa, fertilization and developmental competence in preimplantation stage embryos. Journal of the Turkish German Gynecology Association, 2010, 11, 182-186.	0.2	10
48	Epigallocatechin-3-gallate (EGCG) protects the oocytes from methyl parathion-induced cytoplasmic deformities by suppressing oxidative and endoplasmic reticulum stress. Pesticide Biochemistry and Physiology, 2020, 167, 104588.	1.6	10
49	Structure-based redesigning of pentoxifylline analogs against selective phosphodiesterases to modulate sperm functional competence for assisted reproductive technologies. Scientific Reports, 2021, 11, 12293.	1.6	10
50	High-fat diet leads to elevated lipid accumulation and endoplasmic reticulum stress in oocytes, causing poor embryo development. Reproduction, Fertility and Development, 2020, 32, 1169.	0.1	10
51	In Vitro Matured Oocytes Are More Susceptible than In Vivo Matured Oocytes to Mock ICSI Induced Functional and Genetic Changes. PLoS ONE, 2015, 10, e0119735.	1.1	10
52	Reduced ovarian response to controlled ovarian stimulation is associated with increased oxidative stress in the follicular environment. Reproductive Biology, 2020, 20, 402-407.	0.9	9
53	Ability of deoxyribonucleic acidâ€“damaged sperm to withstand freeze-thawâ€“induced damage during cryopreservation. Fertility and Sterility, 2009, 92, 959-963.	0.5	8
54	Epigenetic changes in preimplantation embryos subjected to laser manipulation.. Lasers in Medical Science, 2017, 32, 2081-2087.	1.0	8

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55	The synthesis of a novel pentoxifylline derivative with superior human sperm motility enhancement properties. New Journal of Chemistry, 2021, 45, 1072-1081.	1.4	8
56	Curcumin nanocrystals attenuate cyclophosphamide-induced testicular toxicity in mice. Toxicology and Applied Pharmacology, 2021, 433, 115772.	1.3	8
57	Enhancement in motility of sperm co-incubated with cumulus oocyte complex (COC) in vitro. European Journal of Obstetrics, Gynecology and Reproductive Biology, 2009, 145, 167-171.	0.5	7
58	Combination of swim-up and density gradient separation methods effectively eliminate DNA damaged sperm. Journal of the Turkish German Gynecology Association, 2011, 12, 148-152.	0.2	7
59	Design and Microwave Assisted Synthesis of Coumarin Derivatives as PDE Inhibitors. International Journal of Medicinal Chemistry, 2016, 2016, 1-16.	2.2	7
60	Ethambutol induces testicular damage and decreases the sperm functional competence in Swiss albino mice. Environmental Toxicology and Pharmacology, 2016, 47, 28-37.	2.0	7
61	Organophosphorus pesticide quinalphos (Ekalux 25 E.C.) reduces sperm functional competence and decreases the fertilisation potential in Swiss albino mice. Andrologia, 2021, 53, e14115.	1.0	7
62	Distinctions in PCOS Induced by Letrozole Vs Dehydroepiandrosterone With High-fat Diet in Mouse Model. Endocrinology, 2022, 163, .	1.4	7
63	Early prepubertal cyclophosphamide exposure in mice results in long-term loss of ovarian reserve, and impaired embryonic development and blastocyst quality. PLoS ONE, 2020, 15, e0235140.	1.1	6
64	Oocytes recovered after ovarian tissue slow freezing have impaired H2AX phosphorylation and functional competence. Reproduction, Fertility and Development, 2015, 27, 1242.	0.1	5
65	Sperm-derived factors enhance thein vitrodevelopmental potential of haploid parthenotes. Zygote, 2017, 25, 697-710.	0.5	5
66	Exposure to first line anti-tuberculosis drugs in prepubertal age reduces the quality and functional competence of spermatozoa and oocytes in Swiss albino mice. Environmental Toxicology and Pharmacology, 2020, 73, 103292.	2.0	5
67	Germinal stage vitrification is superior to MII stage vitrification in prepubertal mouse oocytes. Cryobiology, 2020, 93, 49-55.	0.3	5
68	Haploid parthenotes express differential response to inÂvitro exposure of ammonia compared to normally fertilized embryos. Biochemical and Biophysical Research Communications, 2017, 486, 88-93.	1.0	4
69	Sperm-mediated DNA lesions alter metabolite levels in spent embryo culture medium. Reproduction, Fertility and Development, 2019, 31, 443.	0.1	4
70	Antidiabetic drug metformin affects the developmental competence of cleavage-stage embryos. Journal of Assisted Reproduction and Genetics, 2020, 37, 1227-1238.	1.2	4
71	Synthesis, anti-proliferative and genotoxicity studies of 6-chloro-5-(2-substituted-ethyl)-1,3-dihydro-2H-indol-2-ones and 6-chloro-5-(2-chloroethyl)-3-(alkyl/ary-2-ylidene)indolin-2-ones. European Journal of Medicinal Chemistry, 2016, 121, 221-231.	2.6	3
72	Quinoline Derivative Enhances Human Sperm Motility and Improves the Functional Competence. Reproductive Sciences, 2021, 28, 1316-1332.	1.1	3

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73	Impact of Temperature and Time Interval Prior to Immature Testicular-Tissue Organotypic Culture on Cellular Niche. Reproductive Sciences, 2021, 28, 2161-2173.	1.1	3
74	Artificial Activation of Murine Oocytes Using Strontium to Derive Haploid and Diploid Parthenotes. Methods in Molecular Biology, 2022, 2429, 15-26.	0.4	2
75	Sperm characteristics in normal and abnormal ejaculates are differently influenced by the length of ejaculatory abstinence. Andrology, 2022, 10, 1351-1360.	1.9	2
76	Liposome-encapsulated diacylglycerol and Inositol triphosphate induce delayed oocyte activation and poor development of parthenotes. Journal of the Turkish German Gynecology Association, 2017, 18, 102-109.	0.2	1
77	Stage-specific response in early mouse embryos exposed to prednisolone in vitro. Journal of Endocrinology, 2021, 248, 237-247.	1.2	1
78	Exploring potential formulation strategies for chemoprevention of breast cancer: a localized delivery perspective. Nanomedicine, 2021, 16, 1111-1132.	1.7	1
79	Short-Term Hypothermic Holding of Mouse Immature Testicular Tissue Does Not Alter the Expression of DNA Methyltransferases and Global DNA Methylation Level, Post-Organotypic Culture. Frontiers in Endocrinology, 2022, 13, 854297.	1.5	0