

Guruprasad Kalthur

List of Publications by Year in descending order

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79
papers

1,983
citations

236925
25
h-index

276875
41
g-index

80
all docs

80
docs citations

80
times ranked

2602
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. <i>Drug Delivery</i> , 2017, 24, 61-74.	5.7	188
2	Vitamin E supplementation in semen-freezing medium improves the motility and protects sperm from freeze-thaw-induced DNA damage. <i>Fertility and Sterility</i> , 2011, 95, 1149-1151.	1.0	93
3	Effect of cryopreservation on sperm DNA integrity in patients with teratospermia. <i>Fertility and Sterility</i> , 2008, 89, 1723-1727.	1.0	86
4	Curcumin inhibits telomerase and induces telomere shortening and apoptosis in brain tumour cells. <i>Journal of Cellular Biochemistry</i> , 2013, 114, 1257-1270.	2.6	78
5	Mitochondrial Dysfunction and Oxidative Stress Caused by Cryopreservation in Reproductive Cells. <i>Antioxidants</i> , 2021, 10, 337.	5.1	70
6	Influence of peptide dendrimers and sonophoresis on the transdermal delivery of ketoprofen. <i>International Journal of Pharmaceutics</i> , 2017, 521, 110-119.	5.2	68
7	Supplementing zinc oxide nanoparticles to cryopreservation medium minimizes the freeze-thaw-induced damage to spermatozoa. <i>Biochemical and Biophysical Research Communications</i> , 2017, 494, 656-662.	2.1	67
8	Semen Abnormalities, Sperm DNA Damage and Global Hypermethylation in Health Workers Occupationally Exposed to Ionizing Radiation. <i>PLoS ONE</i> , 2013, 8, e69927.	2.5	66
9	Nano-transfersomal formulations for transdermal delivery of asenapine maleate: <i>in vitro</i> and <i>in vivo</i> performance evaluations. <i>Journal of Liposome Research</i> , 2016, 26, 221-232.	3.3	59
10	Current Insights and Latest Updates in Sperm Motility and Associated Applications in Assisted Reproduction. <i>Reproductive Sciences</i> , 2022, 29, 7-25.	2.5	56
11	Development and evaluation of sunscreen creams containing morin-encapsulated nanoparticles for enhanced UV radiation protection and antioxidant activity. <i>International Journal of Nanomedicine</i> , 2015, 10, 6477.	6.7	55
12	Addition of zinc to human ejaculate prior to cryopreservation prevents freeze-thaw-induced DNA damage and preserves sperm function. <i>Journal of Assisted Reproduction and Genetics</i> , 2012, 29, 1447-1453.	2.5	53
13	Naringin nano-ethosomal novel sunscreen creams: Development and performance evaluation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 193, 111122.	5.0	52
14	Development and performance evaluation of novel nanoparticles of a grafted copolymer loaded with curcumin. <i>International Journal of Biological Macromolecules</i> , 2016, 86, 709-720.	7.5	51
15	Transgenerational changes in somatic and germ line genetic integrity of first-generation offspring derived from the DNA damaged sperm. <i>Fertility and Sterility</i> , 2010, 93, 2486-2490.	1.0	47
16	NMR studies of preimplantation embryo metabolism in human assisted reproductive techniques: a new biomarker for assessment of embryo implantation potential. <i>NMR in Biomedicine</i> , 2013, 26, 20-27.	2.8	44
17	Sperm Oxidative Stress during In Vitro Manipulation and Its Effects on Sperm Function and Embryo Development. <i>Antioxidants</i> , 2021, 10, 1025.	5.1	43
18	Plumbagin alters telomere dynamics, induces DNA damage and cell death in human brain tumour cells. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2015, 793, 86-95.	1.7	39

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19	Sunscreen creams containing naringenin nanoparticles: Formulation development and in vitro and in vivo evaluations. <i>Photodermatology Photoimmunology and Photomedicine</i> , 2018, 34, 69-81.	1.5	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. <i>Reproduction, Fertility and Development</i> , 2016, 28, 2027.	0.4	32
21	Pullulan based stimuli responsive and sub cellular targeted nanoplatforms for biomedical application: Synthesis, nanoformulations and toxicological perspective. <i>International Journal of Biological Macromolecules</i> , 2020, 161, 1189-1205.	7.5	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. <i>Toxicology and Applied Pharmacology</i> , 2014, 279, 338-350.	2.8	31
23	Association between sperm DNA integrity and seminal plasma antioxidant levels in health workers occupationally exposed to ionizing radiation. <i>Environmental Research</i> , 2014, 132, 297-304.	7.5	30
24	Ovarian tissue vitrification is more efficient than slow freezing in protecting oocyte and granulosa cell DNA integrity. <i>Systems Biology in Reproductive Medicine</i> , 2014, 60, 317-322.	2.1	29
25	Ethanol extract of <i>Moringa oleifera</i> leaves alleviate cyclophosphamide-induced testicular toxicity by improving endocrine function and modulating cell specific gene expression in mouse testis. <i>Journal of Ethnopharmacology</i> , 2020, 259, 112922.	4.1	27
26	Indian propolis ameliorates the mitomycin C-induced testicular toxicity by reducing DNA damage and elevating the antioxidant activity. <i>Biomedicine and Pharmacotherapy</i> , 2017, 95, 252-263.	5.6	26
27	Supplementation of biotin to sperm preparation medium increases the motility and longevity in cryopreserved human spermatozoa. <i>Journal of Assisted Reproduction and Genetics</i> , 2012, 29, 631-635.	2.5	22
28	Ethanol extract of <i>Moringa oleifera</i> Lam. leaves protect the pre-pubertal spermatogonial cells from cyclophosphamide-induced damage. <i>Journal of Ethnopharmacology</i> , 2016, 182, 101-109.	4.1	22
29	Enhancement of the Response of B16F1 Melanoma to Fractionated Radiotherapy and Prolongation of Survival by Withaferin A and/or Hyperthermia. <i>Integrative Cancer Therapies</i> , 2010, 9, 370-377.	2.0	21
30	Liposome encapsulated soy lecithin and cholesterol can efficiently replace chicken egg yolk in human semen cryopreservation medium. <i>Systems Biology in Reproductive Medicine</i> , 2014, 60, 183-188.	2.1	21
31	Influence of sperm DNA damage on human preimplantation embryo metabolism. <i>Reproductive Biology</i> , 2016, 16, 234-241.	1.9	20
32	Genetic Instability in Lymphocytes is Associated With Blood Plasma Antioxidant Levels in Health Care Workers Occupationally Exposed to Ionizing Radiation. <i>International Journal of Toxicology</i> , 2016, 35, 327-335.	1.2	20
33	Effect of Withaferin A on the Development and Decay of Thermotolerance in B16F1 Melanoma: A Preliminary Study. <i>Integrative Cancer Therapies</i> , 2009, 8, 93-97.	2.0	19
34	Sperm Chromatin Immaturity Observed in Short Abstinence Ejaculates Affects DNA Integrity and Longevity In Vitro. <i>PLoS ONE</i> , 2016, 11, e0152942.	2.5	18
35	Unraveling the association between genetic integrity and metabolic activity in pre-implantation stage embryos. <i>Scientific Reports</i> , 2016, 6, 37291.	3.3	16
36	Laser assisted zona hatching does not lead to immediate impairment in human embryo quality and metabolism. <i>Systems Biology in Reproductive Medicine</i> , 2016, 62, 396-403.	2.1	16

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37	Fertility preservation during the COVID-19 pandemic: mitigating the viral contamination risk to reproductive cells in cryostorage. <i>Reproductive BioMedicine Online</i> , 2020, 41, 991-997.	2.4	16
38	Oncofertility: Knowledge, Attitudes, and Barriers Among Indian Oncologists and Gynecologists. <i>Journal of Adolescent and Young Adult Oncology</i> , 2021, 10, 71-77.	1.3	16
39	Nanoconstructs as a versatile tool for detection and diagnosis of Alzheimer biomarkers. <i>Nanotechnology</i> , 2021, 32, 142002.	2.6	16
40	Cyclodextrins as Carriers in Targeted Delivery of Therapeutic Agents: Focused Review on Traditional and Inimitable Applications. <i>Current Pharmaceutical Design</i> , 2019, 25, 444-454.	1.9	15
41	Supplementation of biotin to sperm preparation medium enhances fertilizing ability of spermatozoa and improves preimplantation embryo development. <i>Journal of Assisted Reproduction and Genetics</i> , 2019, 36, 255-266.	2.5	15
42	Synthesis of novel thiadiazolotriazin-4-ones and study of their mosquito-larvicidal and antibacterial properties. <i>European Journal of Medicinal Chemistry</i> , 2014, 84, 194-199.	5.5	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. <i>Reproductive Sciences</i> , 2021, 28, 134-143.	2.5	14
44	Mitigating effect of Indian propolis against mitomycin C induced bone marrow toxicity. <i>Cytotechnology</i> , 2016, 68, 1789-1800.	1.6	13
45	Spent embryo culture medium metabolites are related to the in vitro attachment ability of blastocysts. <i>Scientific Reports</i> , 2018, 8, 17025.	3.3	13
46	The extent of paternal sperm DNA damage influences early post-natal survival of first generation mouse offspring. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2013, 166, 164-167.	1.1	11
47	Association between the extent of DNA damage in the spermatozoa, fertilization and developmental competence in preimplantation stage embryos. <i>Journal of the Turkish German Gynecology Association</i> , 2010, 11, 182-186.	0.6	10
48	Epigallocatechin-3-gallate (EGCG) protects the oocytes from methyl parathion-induced cytoplasmic deformities by suppressing oxidative and endoplasmic reticulum stress. <i>Pesticide Biochemistry and Physiology</i> , 2020, 167, 104588.	3.6	10
49	Structure-based redesigning of pentoxifylline analogs against selective phosphodiesterases to modulate sperm functional competence for assisted reproductive technologies. <i>Scientific Reports</i> , 2021, 11, 12293.	3.3	10
50	High-fat diet leads to elevated lipid accumulation and endoplasmic reticulum stress in oocytes, causing poor embryo development. <i>Reproduction, Fertility and Development</i> , 2020, 32, 1169.	0.4	10
51	In Vitro Matured Oocytes Are More Susceptible than In Vivo Matured Oocytes to Mock ICSI Induced Functional and Genetic Changes. <i>PLoS ONE</i> , 2015, 10, e0119735.	2.5	10
52	Reduced ovarian response to controlled ovarian stimulation is associated with increased oxidative stress in the follicular environment. <i>Reproductive Biology</i> , 2020, 20, 402-407.	1.9	9
53	Ability of deoxyribonucleic acidâ€“damaged sperm to withstand freeze-thawâ€“induced damage during cryopreservation. <i>Fertility and Sterility</i> , 2009, 92, 959-963.	1.0	8
54	Epigenetic changes in preimplantation embryos subjected to laser manipulation.. <i>Lasers in Medical Science</i> , 2017, 32, 2081-2087.	2.1	8

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55	The synthesis of a novel pentoxifylline derivative with superior human sperm motility enhancement properties. <i>New Journal of Chemistry</i> , 2021, 45, 1072-1081.	2.8	8
56	Curcumin nanocrystals attenuate cyclophosphamide-induced testicular toxicity in mice. <i>Toxicology and Applied Pharmacology</i> , 2021, 433, 115772.	2.8	8
57	Enhancement in motility of sperm co-incubated with cumulus oocyte complex (COC) in vitro. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2009, 145, 167-171.	1.1	7
58	Combination of swim-up and density gradient separation methods effectively eliminate DNA damaged sperm. <i>Journal of the Turkish German Gynecology Association</i> , 2011, 12, 148-152.	0.6	7
59	Design and Microwave Assisted Synthesis of Coumarin Derivatives as PDE Inhibitors. <i>International Journal of Medicinal Chemistry</i> , 2016, 2016, 1-16.	2.2	7
60	Ethambutol induces testicular damage and decreases the sperm functional competence in Swiss albino mice. <i>Environmental Toxicology and Pharmacology</i> , 2016, 47, 28-37.	4.0	7
61	Organophosphorus pesticide quinalphos (Ekalux 25 E.C.) reduces sperm functional competence and decreases the fertilisation potential in Swiss albino mice. <i>Andrologia</i> , 2021, 53, e14115.	2.1	7
62	Distinctions in PCOS Induced by Letrozole Vs Dehydroepiandrosterone With High-fat Diet in Mouse Model. <i>Endocrinology</i> , 2022, 163, .	2.8	7
63	Early prepubertal cyclophosphamide exposure in mice results in long-term loss of ovarian reserve, and impaired embryonic development and blastocyst quality. <i>PLoS ONE</i> , 2020, 15, e0235140.	2.5	6
64	Oocytes recovered after ovarian tissue slow freezing have impaired H2AX phosphorylation and functional competence. <i>Reproduction, Fertility and Development</i> , 2015, 27, 1242.	0.4	5
65	Sperm-derived factors enhance the <i>in vitro</i> developmental potential of haploid parthenotes. <i>Zygote</i> , 2017, 25, 697-710.	1.1	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. <i>Environmental Toxicology and Pharmacology</i> , 2020, 73, 103292.	4.0	5
67	Germinal stage vitrification is superior to MII stage vitrification in prepubertal mouse oocytes. <i>Cryobiology</i> , 2020, 93, 49-55.	0.7	5
68	Haploid parthenotes express differential response to <i>in vitro</i> exposure of ammonia compared to normally fertilized embryos. <i>Biochemical and Biophysical Research Communications</i> , 2017, 486, 88-93.	2.1	4
69	Sperm-mediated DNA lesions alter metabolite levels in spent embryo culture medium. <i>Reproduction, Fertility and Development</i> , 2019, 31, 443.	0.4	4
70	Antidiabetic drug metformin affects the developmental competence of cleavage-stage embryos. <i>Journal of Assisted Reproduction and Genetics</i> , 2020, 37, 1227-1238.	2.5	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. <i>European Journal of Medicinal Chemistry</i> , 2016, 121, 221-231.	5.5	3
72	Quinoline Derivative Enhances Human Sperm Motility and Improves the Functional Competence. <i>Reproductive Sciences</i> , 2021, 28, 1316-1332.	2.5	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.	2.5	3
74	Artificial Activation of Murine Oocytes Using Strontium to Derive Haploid and Diploid Parthenotes. Methods in Molecular Biology, 2022, 2429, 15-26.	0.9	2
75	Sperm characteristics in normal and abnormal ejaculates are differently influenced by the length of ejaculatory abstinence. Andrology, 2022, 10, 1351-1360.	3.5	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.	0.6	1
77	Stage-specific response in early mouse embryos exposed to prednisolone in vitro. Journal of Endocrinology, 2021, 248, 237-247.	2.6	1
78	Exploring potential formulation strategies for chemoprevention of breast cancer: a localized delivery perspective. Nanomedicine, 2021, 16, 1111-1132.	3.3	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.	3.5	0