Anita Mukherjee

List of Publications by Year
in descending order

104 papers	3,661 citations	126708 33 h-index	143772 57 g-index
104 all docs	104 docs citations	104 times ranked	5235 citing authors

#	Article	IF	Citations
1	Genotoxicity of titanium dioxide (TiO2) nanoparticles at two trophic levels: Plant and human lymphocytes. Chemosphere, 2010, 81, 1253-1262.	4.2	397
2	In vitro and in vivo genotoxicity of silver nanoparticles. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2012, 749, 60-69.	0.9	194
3	Effects of ZnO nanoparticles in plants: Cytotoxicity, genotoxicity, deregulation of antioxidant defenses, and cell-cycle arrest. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2016, 807, 25-32.	0.9	158
4	MWCNT uptake in Allium cepa root cells induces cytotoxic and genotoxic responses and results in DNA hyper-methylation. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2015, 774, 49-58.	0.4	129
5	Genotoxicity Testing of Low-Calorie Sweeteners: Aspartame, Acesulfame-K, and Saccharin. Drug and Chemical Toxicology, 2008, 31, 447-457.	1.2	109
6	Multi-walled carbon nanotubes (MWCNT): Induction of DNA damage in plant and mammalian cells. Journal of Hazardous Materials, 2011, 197, 327-336.	6.5	109
7	Cytotoxic, genotoxic and the hemolytic effect of titanium dioxide (TiO₂) nanoparticles on human erythrocyte and lymphocyte cells in vitro. Journal of Applied Toxicology, 2013, 33, 1097-1110.	1.4	109
8	Cytotoxicity of aluminum oxide nanoparticles on Allium cepa root tipâ€"effects of oxidative stress generation and biouptake. Environmental Science and Pollution Research, 2015, 22, 11057-11066.	2.7	97
9	Evaluation of toxicity of essential oils palmarosa, citronella, lemongrass and vetiver in human lymphocytes. Food and Chemical Toxicology, 2014, 68, 71-77.	1.8	96
10	Nanopriming with zero valent iron (nZVI) enhances germination and growth in aromatic rice cultivar (Oryza sativa cv. Gobindabhog L.). Plant Physiology and Biochemistry, 2018, 127, 403-413.	2.8	95
11	Evaluation of genotoxicity of coal fly ash in Allium cepa root cells by combining comet assay with the Allium test. Environmental Monitoring and Assessment, 2009, 153, 351-357.	1.3	94
12	Vetiver grass: An environment clean-up tool for heavy metal contaminated iron ore mine-soil. Ecological Engineering, 2016, 90, 25-34.	1.6	83
13	Biosynthesis and safety evaluation of ZnO nanoparticles. Bioprocess and Biosystems Engineering, 2014, 37, 165-171.	1.7	81
14	Mutagenicity and genotoxicity of coal fly ash water leachate. Ecotoxicology and Environmental Safety, 2009, 72, 838-842.	2.9	71
15	DNA damage in potato plants induced by cadmium, ethyl methanesulphonate and Î³-rays. Environmental and Experimental Botany, 2008, 62, 113-119.	2.0	70
16	Surface capping and size-dependent toxicity of gold nanoparticles on different trophic levels. Environmental Science and Pollution Research, 2016, 23, 4844-4858.	2.7	67
17	In vivo cytogenetic studies on mice exposed to acesulfame-Kâ€"A non-nutritive sweetener. Food and Chemical Toxicology, 1997, 35, 1177-1179.	1.8	66
18	Cyto-genotoxicity and oxidative stress induced by zinc oxide nanoparticle in human lymphocyte cells inÂvitro and Swiss albino male mice inÂvivo. Food and Chemical Toxicology, 2016, 97, 286-296.	1.8	65

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19	DNA repair deficiency leads to susceptibility to develop arsenicâ€induced premalignant skin lesions. International Journal of Cancer, 2008, 123, 283-287.	2.3	55
20	Oxidative stress responses of two different ecophysiological species of earthworms (Eutyphoeus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	4.2	53
21	In planta genotoxicity of nZVI: influence of colloidal stability on uptake, DNA damage, oxidative stress and cell death. Mutagenesis, 2017, 32, 371-387.	1.0	50
22	Use of the grass, Vetiveria zizanioides (L.) Nash for detoxification and phytoremediation of soils contaminated with fly ash from thermal power plants. Ecological Engineering, 2015, 74, 258-265.	1.6	49
23	Evaluation of multi-endpoint assay to detect genotoxicity and oxidative stress in mice exposed to sodium fluoride. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2013, 751, 59-65.	0.9	48
24	Relative efficacy of short-term tests in detecting genotoxic effects of cadmium chloride in mice in vivo. Mutation Research - Genetic Toxicology Testing and Biomonitoring of Environmental Or Occupational Exposure, 1988, 206, 285-295.	1.2	46
25	Genotoxicity of engineered nanoparticles in higher plants. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2019, 842, 132-145.	0.9	43
26	DNA staining with the fluorochromes EtBr, DAPI and YOYO-1 in the comet assay with tobacco plants after treatment with ethyl methanesulphonate, hyperthermia and DNase-I. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2006, 605, 17-21.	0.9	39
27	Genotoxicity and biocompatibility of superparamagnetic iron oxide nanoparticles: Influence of surface modification on biodistribution, retention, DNA damage and oxidative stress. Food and Chemical Toxicology, 2020, 136, 110989.	1.8	39
28	Evaluation of pan masala for toxic effects on liver and other organs. Food and Chemical Toxicology, 1992, 30, 161-163.	1.8	38
29	Vetiver grass is a potential candidate for phytoremediation of iron ore mine spoil dumps. Ecological Engineering, 2019, 132, 120-136.	1.6	38
30	Investigation on the Genotoxic Effects of Long-Term Administration of Sodium Arsenite in Bone Marrow and Testicular Cells In Vivo Using the Comet Assay. Journal of Environmental Pathology, Toxicology and Oncology, 2007, 26, 29-37.	0.6	38
31	Sister chromatid exchanges and micronuclei formations induced by sorbic acid and sorbic acid-nitrite in vivo in mice. Toxicology Letters, 1988, 42, 47-53.	0.4	36
32	Genotoxicity Testing of the Food Colours Amaranth and Tartrazine. International Journal of Human Genetics, 2004, 4, 277-280.	0.1	36
33	Antigenotoxic and antioxidant activities of palmarosa and citronella essential oils. Journal of Ethnopharmacology, 2011, 137, 1521-1527.	2.0	36
34	Sodium Fluoride Promotes Apoptosis by Generation of Reactive Oxygen Species in Human Lymphocytes. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2014, 77, 1269-1280.	1.1	36
35	In vivo cytogenetic studies on blends of aspartame and acesulfame-K. Food and Chemical Toxicology, 2000, 38, 75-77.	1.8	35
36	Anticlastogenic activity Î²-carotene against cyclophoshamide in mice in vivo. Mutation Research-Fundamental and Molecular Mechanisms of Mutagenesis, 1991, 263, 41-46.	1.2	33

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37	Genotoxicity of Sennosides on the Bone Marrow Cells of Mice. Food and Chemical Toxicology, 1998, 36, 937-940.	1.8	32
38	Studies on the anticlastogenic effect of turmeric and curcumin on cyclophosphamide and mitomycin C In Vivo. Food and Chemical Toxicology, 1998, 36, 73-76.	1.8	31
39	Cytogenetic studies of chromium (III) oxide nanoparticles on Allium cepa root tip cells. Journal of Environmental Sciences, 2015, 38, 150-157.	3.2	31
40	Vetiver oil (Java) attenuates cisplatin-induced oxidative stress, nephrotoxicity and myelosuppression in Swiss albino mice. Food and Chemical Toxicology, 2015, 81, 120-128.	1.8	29
41	Toxicity, accumulation, and trophic transfer of chemically and biologically synthesized nano zero valent iron in a two species freshwater food chain. Aquatic Toxicology, 2017, 183, 63-75.	1.9	29
42	Green conversion of graphene oxide to graphene nanosheets and its biosafety study. PLoS ONE, 2017, 12, e0171607.	1.1	28
43	Sanguinarine: an evaluation of in vivo cytogenetic activity. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2004, 563, 81-87.	0.9	26
44	Evaluation of the nuclear DNA Diffusion Assay to detect apoptosis and necrosis. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2005, 586, 38-46.	0.9	26
45	Evaluation of genotoxicity and oxidative stress of aluminium oxide nanoparticles and its bulk form in Allium cepa. Nucleus (India), 2016, 59, 219-225.	0.9	26
46	Role of cerium oxide nanoparticle-induced autophagy as a safeguard to exogenous H2O2-mediated DNA damage in tobacco BY-2 cells. Mutagenesis, 2018, 33, 161-177.	1.0	25
47	Betulinic acid induces DNA damage and apoptosis in SiHa cells. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2018, 828, 1-9.	0.9	25
48	Manganese oxide nanoparticles induce genotoxicity and DNA hypomethylation in the moss Physcomitrella patens. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2019, 842, 146-157.	0.9	25
49	Inhibition by capsaicin against cyclophosphamide-induced clastogenicity and DNA damage in mice. Mutation Research - Environmental Mutagenesis and Related Subjects Including Methodology, 1995, 335, 253-258.	0.4	24
50	Effects of cadmium and selenium on cell division and chromosomal aberrations in Allium sativum L.. Water, Air, and Soil Pollution, 1988, 37, 433-438.	1.1	23
51	Evaluation of genetic damage in tobacco and arsenic exposed population of Southern Assam, India using buccal cytome assay and comet assay. Ecotoxicology and Environmental Safety, 2016, 124, 169-176.	2.9	23
52	Ciprofloxacin: mammalian DNA topoisomerase type II poison in vivo. Mutation Research-Fundamental and Molecular Mechanisms of Mutagenesis, 1993, 301, 87-92.	1.2	22
53	Effect of â€˜Pan Masalaâ€™ on the germ cells of male mice. Cancer Letters, 1991, 58, 161-165.	3.2	21
54	Technical Note: Vetiver Can Grow on Coal Fly Ash Without DNA Damage. International Journal of Phytoremediation, 2010, 13, 206-214.	1.7	21

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55	Effect of low-dose exposure of aluminium oxide nanoparticles in Swiss albino mice: Histopathological changes and oxidative damage. Toxicology and Industrial Health, 2020, 36, 567-579.	0.6	21
56	Hazard identification of coal fly ash leachate using a battery of cyto-genotoxic and biochemical tests in Allium cepa. Archives of Agronomy and Soil Science, 2017, 63, 1443-1453.	1.3	20
57	Toxicity assessment of zero valent iron nanoparticles on Artemia salina. Environmental Toxicology, 2017, 32, 1617-1627.	2.1	20
58	Investigating the underlying mechanism of cadmium-induced plant adaptive response to genotoxic stress. Ecotoxicology and Environmental Safety, 2021, 209, 111817.	2.9	19
59	Sensitivity of Allium and Nicotiana in cellular and acellular comet assays to assess differential genotoxicity of direct and indirect acting mutagens. Ecotoxicology and Environmental Safety, 2011, 74, 860-865.	2.9	18
60	Sister chromatid exchange induced by â€˜pan masalaâ€™ (a betel quid ingredient) in male mice in vivo. Food and Chemical Toxicology, 1991, 29, 401-403.	1.8	14
61	Antimutagenic and genoprotective effects of Saraca asoca bark extract. Toxicology and Industrial Health, 2015, 31, 696-703.	0.6	14
62	Potential antigenotoxicity assessment of Ziziphus jujuba fruit. Heliyon, 2019, 5, e01768.	1.4	13
63	Cadmium selenide (CdSe) quantum dots cause genotoxicity and oxidative stress in Allium cepa plants. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2021, 865, 503338.	0.9	13
64	Phenethyl isotiocyanate modulates clastogenicity of mitomycin C and cyclophosphamide in vivo. Mutation Research - Genetic Toxicology Testing and Biomonitoring of Environmental Or Occupational Exposure, 1996, 371, 159-164.	1.2	12
65	Lead induced genotoxicity and cytotoxicity in root cells of Allium cepa and Vicia faba. Nucleus (India), 2013, 56, 183-189.	0.9	12
66	Phytoextraction of heavy metals from coal fly ash for restoration of fly ash dumpsites. Bioremediation Journal, 2020, 24, 41-49.	1.0	12
67	In vivo cytogenetic studies on mice exposed to natural food colourings. Food and Chemical Toxicology, 1994, 32, 837-838.	1.8	11
68	Clastogenic effect of ginger rhizome in mice. Phytotherapy Research, 2000, 14, 555-557.	2.8	11
69	In vitro genotoxicity evaluation of 4-carboxyl-2,6-dinitrophenylazohydroxynaphthalenes using human lymphocytes. Food and Chemical Toxicology, 2012, 50, 936-941.	1.8	11
70	Genotoxicity of antiobesity drug orlistat and effect of caffeine intervention: an in vitro study. Drug and Chemical Toxicology, 2017, 40, 339-343.	1.2	10
71	Sister chromatid exchange induced by secondary and tertiary amine containing dyes and in combination with nitrite in vivo in mice. Cancer Letters, 1990, 52, 33-37.	3.2	9
72	Genotoxicity analysis of rutile titanium dioxide nanoparticles in mice after 28Âdays of repeated oral administration. Nucleus (India), 2020, 63, 17-24.	0.9	9

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73	Effects of vitamin C and vitamin A on post chromosomal aberration in vivo induced by metanil yellow and zinc chloride.. Cytologia, 1988, 53, 793-799.	0.2	8
74	Argemone oil induces genotoxicity in mice. Drug and Chemical Toxicology, 2016, 39, 407-411.	1.2	8
75	Biological activity of dendrimerâ€“methylglyoxal complexes for improved therapeutic efficacy against malignant cells. RSC Advances, 2016, 6, 6631-6642.	1.7	8
76	High-altitude medicines: A short-term genotoxicity study. Toxicology and Industrial Health, 2010, 26, 417-424.	0.6	7
77	Clastogenic effect of fenfluramine in mice bone marrow cells in vivo. Environmental and Molecular Mutagenesis, 1992, 19, 323-326.	0.9	5
78	Comparative evaluation of promutagens o-PDA, m-PDA and MH for genotoxic response in root cells of Allium cepa L.. Nucleus (India), 2010, 53, 45-50.	0.9	5
79	Malathion and dithane induce DNA damage in Vicia faba. Toxicology and Industrial Health, 2017, 33, 843-854.	0.6	5
80	Comprehensive analysis of fly ash induced changes in physiological/growth parameters, DNA damage and oxidative stress over the life cycle of Brassica juncea and Brassica alba. Chemosphere, 2017, 186, 616-624.	4.2	5
81	Inhibition of clastogenic effect of cyclophosphamide and mitomycin C by Neem leaf-extract in mice. , 1998, 12, 409-412.		4
82	Studies of the interactions of 4-carboxyl-2,6-dinitrophenylazohydroxynaphthalenes with CT-DNA in aqueous medium. Journal of Molecular Liquids, 2012, 174, 17-25.	2.3	4
83	Vivipary in Hedychium elatum (Zingiberaceae). Phytotaxa, 2013, 130, 55.	0.1	4
84	Photo-physical investigation of the binding interactions of alumina nanoparticles with calf thymus DNA. Nucleus (India), 2019, 62, 251-257.	0.9	4
85	Metallo-adaptive response: a unique survival strategy of plants under genotoxic stress. Nucleus (India), 2022, 65, 99-106.	0.9	4
86	In Vitro Cyto-genotoxicity of Hydroxycitric Acid: A Weight-loss Dietary Supplement. Journal of Exploratory Research in Pharmacology, 2017, 2, 41-48.	0.2	4
87	Sister chromatid exchanges induced by tertiary butyl hydroquinone in bone marrow cells of mice. Environmental and Molecular Mutagenesis, 1989, 13, 234-237.	0.9	3
88	Karyomorphology of three species of Haworthia Duval (Xanthorrhoeaceae). Nucleus (India), 2012, 55, 143-148.	0.9	3
89	Remediation of Mine Tailings and Fly Ash Dumpsites: Role of Poaceae Family Members and Aromatic Grasses. , 2017, , 117-167.		3
90	Mycobacterial heat shock protein 65 mediated metabolic shift in decidualization of human endometrial stromal cells. Scientific Reports, 2017, 7, 3942.	1.6	3

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91	Nanoscale zerovalent iron particles induce differential cytotoxicity, genotoxicity, oxidative stress and hemolytic responses in human lymphocytes and erythrocytes in vitro. Journal of Applied Toxicology, 2019, 39, 1623-1639.	1.4	3
92	Spectrophotometric and thermodynamic studies of the interactions of 4-carboxyl-2,6-dinitrophenylazohydroxynaphthalenes with bovine serum albumin. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 96, 1038-1046.	2.0	2
93	Genotoxicity assessment of soil contamination: a case study from Farakka coal-fired power plant in eastern India. Nucleus (India), 2012, 55, 45-50.	0.9	2
94	Genotoxicity Testing of Two Anticaking Agents: Sodium and Potassium Ferrocyanide in vitro. International Journal of Human Genetics, 2013, 13, 21-25.	0.1	2
95	Identification of serum metabolic markers for diagnosis of women with dormant genital tuberculosis. Metabolomics, 2016, 12, 1.	1.4	2
96	Garcinia indica fruit extract induces genotoxicity in mice. Nucleus (India), 2016, 59, 1-6.	0.9	2
97	Stabilization of Iron Ore Mine Spoil Dump Sites With Vetiver System. , 2018, , 393-413.		2
98	Genotoxicity evaluation of 4-carboxyl- 2,6-dinitrophenylazohydroxynaphthalenes in mice. Toxicology and Industrial Health, 2014, 30, 393-404.	0.6	1
99	Cytomorphological Studies of <i>Aloe variegata</i> L. and <i>Aloe zebrina</i> Baker (Xanthorrhoeaceae) by an Image Analyzing System. Cytologia, 2014, 79, 281-286.	0.2	1
100	Genotoxicity of nanoscale zerovalent iron particles in tobacco BY-2 cells. Nucleus (India), 2019, 62, 211-219.	0.9	1
101	Poly(dimethylsiloxane) Induces Cytotoxicity and Genotoxicity in Human Lymphocytes. Proceedings of the Zoological Society, 2020, 73, 82-85.	0.4	1
102	Vetiver Grass Environmental Model for Rehabilitation of Iron Overburden Soil: An Ecosystem Service Approach. The National Academy of Sciences, India, 2022, 45, 185-190.	0.8	1
103	Comet assay based detection of SPION induced DNA damage in human lymphocytes. , 2016, , .		0
104	Environmental and occupational genotoxins. Nucleus (India), 2019, 62, 189-190.	0.9	0