Meng Tang

List of Publications by Year
in descending order

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111 papers	4,605 citations	87888 38 h-index	123424 61 g-index
114 all docs	114 docs citations	114 times ranked	5397 citing authors

#	Article	IF	Citations
1	Review of the effects of manufactured nanoparticles on mammalian target organs. Journal of Applied Toxicology, 2018, 38, 25-40.	2.8	167
2	Potential health impact of environmental microâ€•and nanoplastics pollution. Journal of Applied Toxicology, 2020, 40, 4-15.	2.8	165
3	PM2.5 induces ferroptosis in human endothelial cells through iron overload and redox imbalance. Environmental Pollution, 2019, 254, 112937.	7.5	148
4	Nickel Nanoparticles Exposure and Reproductive Toxicity in Healthy Adult Rats. International Journal of Molecular Sciences, 2014, 15, 21253-21269.	4.1	144
5	Toxicity of inhaled particulate matter on the central nervous system: neuroinflammation, neuropsychological effects and neurodegenerative disease. Journal of Applied Toxicology, 2017, 37, 644-667.	2.8	140
6	Acute toxic effects and genderâ€•related biokinetics of silver nanoparticles following an intravenous injection in mice. Journal of Applied Toxicology, 2012, 32, 890-899.	2.8	136
7	The Toxicity Of Metallic Nanoparticles On Liver: The Subcellular Damages, Mechanisms, And Outcomes . International Journal of Nanomedicine, 2019, Volume 14, 8787-8804.	6.7	122
8	Toxicological study of metal and metal oxide nanoparticles in zebrafish. Journal of Applied Toxicology, 2020, 40, 37-63.	2.8	120
9	PM2.5 induces autophagy and apoptosis through endoplasmic reticulum stress in human endothelial cells. Science of the Total Environment, 2020, 710, 136397.	8.0	97
10	The interaction between nanoparticles-protein corona complex and cells and its toxic effect on cells. Chemosphere, 2020, 245, 125624.	8.2	94
11	Toxic effects and involved molecular pathways of nanoparticles on cells and subcellular organelles. Journal of Applied Toxicology, 2020, 40, 16-36.	2.8	87
12	Caenorhabditis elegans as a complete model organism for biosafety assessments of nanoparticles. Chemosphere, 2019, 221, 708-726.	8.2	86
13	Biological effects of airborne fine particulate matter (PM 2.5) exposure on pulmonary immune system. Environmental Toxicology and Pharmacology, 2018, 60, 195-201.	4.0	85
14	Liver Toxicity of Cadmium Telluride Quantum Dots (CdTe QDs) Due to Oxidative Stress in Vitro and in Vivo. International Journal of Molecular Sciences, 2015, 16, 23279-23299.	4.1	83
15	Cytotoxicity and apoptosis induced by silver nanoparticles in human liver HepG2 cells in different dispersion media. Journal of Applied Toxicology, 2016, 36, 352-360.	2.8	83
16	Review of in vitro toxicological research of quantum dot and potentially involved mechanisms. Science of the Total Environment, 2018, 625, 940-962.	8.0	82
17	The inflammatory response to silver and titanium dioxide nanoparticles in the central nervous system. Nanomedicine, 2018, 13, 233-249.	3.3	75
18	The in vivo underlying mechanism for recovery response formation in nano-titanium dioxide exposed Caenorhabditis elegans after transfer to the normal condition. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 89-98.	3.3	73

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19	Induction of ferroptosis in response to graphene quantum dots through mitochondrial oxidative stress in microglia. Particle and Fibre Toxicology, 2020, 17, 30.	6.2	73
20	Toxicity of quantum dots on respiratory system. Inhalation Toxicology, 2014, 26, 128-139.	1.6	71
21	Transmissions of serotonin, dopamine, and glutamate are required for the formation of neurotoxicity from Al₂O₃-NPs in nematodeCaenorhabditis elegans. Nanotoxicology, 2013, 7, 1004-1013.	3.0	69
22	Evaluation of Environmental Safety Concentrations of DMSA Coated Fe2O3-NPs Using Different Assay Systems in Nematode Caenorhabditis elegans. PLoS ONE, 2012, 7, e43729.	2.5	68
23	Silver nanoparticles modulate mitochondrial dynamics and biogenesis in HepG2 cells. Environmental Pollution, 2020, 256, 113430.	7.5	64
24	MWCNT interactions with protein: surface-induced changes in protein adsorption and the impact of protein corona on cellular uptake and cytotoxicity . International Journal of Nanomedicine, 2019, Volume 14, 993-1009.	6.7	63
25	Silver nanoparticles induced cytotoxicity in HT22 cells through autophagy and apoptosis via PI3K/AKT/mTOR signaling pathway. Ecotoxicology and Environmental Safety, 2021, 208, 111696.	6.0	60
26	Toxicity of different types of quantum dots to mammalian cells in vitro: An update review. Journal of Hazardous Materials, 2020, 399, 122606.	12.4	59
27	MPA-capped CdTe quantum dots exposure causes neurotoxic effects in nematode Caenorhabditis elegans by affecting the transporters and receptors of glutamate, serotonin and dopamine at the genetic level, or by increasing ROS, or both. Nanoscale, 2015, 7, 20460-20473.	5.6	57
28	Review of the effects of silver nanoparticle exposure on gut bacteria. Journal of Applied Toxicology, 2019, 39, 27-37.	2.8	57
29	Mechanisms involved in reproductive toxicity caused by nickel nanoparticle in female rats. Environmental Toxicology, 2016, 31, 1674-1683.	4.0	55
30	Mechanisms underlying nickel nanoparticle induced reproductive toxicity and chemo-protective effects of vitamin C in male rats. Chemosphere, 2019, 218, 259-265.	8.2	55
31	Dysfunction of various organelles provokes multiple cell death after quantum dot exposure. International Journal of Nanomedicine, 2018, Volume 13, 2729-2742.	6.7	53
32	Threshold Dose of Three Types of Quantum Dots (QDs) Induces Oxidative Stress Triggers DNA Damage and Apoptosis in Mouse Fibroblast L929 Cells. International Journal of Environmental Research and Public Health, 2015, 12, 13435-13454.	2.6	52
33	Safety of novel liposomal drugs for cancer treatment: Advances and prospects. Chemico-Biological Interactions, 2018, 295, 13-19.	4.0	51
34	Quantum dots exposure alters both development and function of D-type GABAergic motor neurons in nematode Caenorhabditis elegans. Toxicology Research, 2015, 4, 399-408.	2.1	45
35	Identification of mRNA-miRNA crosstalk in human endothelial cells after exposure of PM2.5 through integrative transcriptome analysis. Ecotoxicology and Environmental Safety, 2019, 169, 863-873.	6.0	44
36	Research advances on potential neurotoxicity of quantum dots. Journal of Applied Toxicology, 2016, 36, 345-351.	2.8	42

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37	Reactive oxygen species trigger NF-Î¹B-mediated NLRP3 inflammasome activation involvement in low-dose CdTe QDs exposure-induced hepatotoxicity. Redox Biology, 2021, 47, 102157.	9.0	42
38	Reproductive toxicity induced by nickel nanoparticles in Caenorhabditis elegans. Environmental Toxicology, 2017, 32, 1530-1538.	4.0	41
39	Genotoxic effects of silver nanoparticles with/without coating in human liver HepG2 cells and in mice. Journal of Applied Toxicology, 2019, 39, 908-918.	2.8	41
40	Neurotoxicity of metalâ€containing nanoparticles and implications in glial cells. Journal of Applied Toxicology, 2021, 41, 65-81.	2.8	41
41	Ambient particulate matter triggers dysfunction of subcellular structures and endothelial cell apoptosis through disruption of redox equilibrium and calcium homeostasis. Journal of Hazardous Materials, 2020, 394, 122439.	12.4	40
42	Systemic and immunotoxicity of pristine and PEGylated multi-walled carbon nanotubes in an intravenous 28 days repeated dose toxicity study. International Journal of Nanomedicine, 2017, Volume 12, 1539-1554.	6.7	39
43	Review of toxicological effect of quantum dots on the liver. Journal of Applied Toxicology, 2019, 39, 72-86.	2.8	39
44	Dose Dependent <I>In Vivo</I> Metabolic Characteristics of Titanium Dioxide Nanoparticles. Journal of Nanoscience and Nanotechnology, 2010, 10, 8575-8583.	0.9	38
45	Surface modification of multiwall carbon nanotubes determines the pro-inflammatory outcome in macrophage. Journal of Hazardous Materials, 2015, 284, 73-82.	12.4	38
46	The role of ferroptosis mediated by NRF2/ERK-regulated ferritinophagy in CdTe QDs-induced inflammation in macrophage. Journal of Hazardous Materials, 2022, 436, 129043.	12.4	37
47	Effect and mechanism of PI3K/AKT/mTOR signaling pathway in the apoptosis of GC-1Âcells induced by nickel nanoparticles. Chemosphere, 2020, 255, 126913.	8.2	36
48	Research advance on cell imaging and cytotoxicity of different types of quantum Dots. Journal of Applied Toxicology, 2021, 41, 342-361.	2.8	36
49	The cytotoxicity of core-shell or non-shell structure quantum dots and reflection on environmental friendly: A review. Environmental Research, 2021, 194, 110593.	7.5	36
50	Metabonomic Studies of Biochemical Changes in the Serum of Rats by Intratracheally Instilled TiO₂ Nanoparticles. Journal of Nanoscience and Nanotechnology, 2011, 11, 3065-3074.	0.9	34
51	Electrochemical biosensor based on functional composite nanofibers for detection of K-ras gene via multiple signal amplification strategy. Analytical Biochemistry, 2014, 466, 51-58.	2.4	31
52	Biodistribution and organ oxidative damage following 28 days oral administration of nanosilver with/without coating in mice. Journal of Applied Toxicology, 2020, 40, 815-831.	2.8	30
53	Research progress on toxicity, function, and mechanism of metal oxide nanoparticles on vascular endothelial cells. Journal of Applied Toxicology, 2021, 41, 683-700.	2.8	30
54	Mitophagyâ€“lysosomal pathway is involved in silver nanoparticle-induced apoptosis in A549 cells. Ecotoxicology and Environmental Safety, 2021, 208, 111463.	6.0	30

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55	Impairments of spatial learning and memory following intrahippocampal injection in rats of 3-mercaptopropionic acid-modified CdTe quantum dots and molecular mechanisms. International Journal of Nanomedicine, 2016, 11, 2737.	6.7	29
56	The role of NLRP3 inflammasome activation in the neuroinflammatory responses to Ag₂Se quantum dots in microglia. Nanoscale, 2019, 11, 20820-20836.	5.6	28
57	DNA damage in BVâ€2 cells: An important supplement to the neurotoxicity of CdTe quantum dots. Journal of Applied Toxicology, 2019, 39, 525-539.	2.8	28
58	Effects of Th1 and Th2 cells balance in pulmonary injury induced by nano titanium dioxide. Environmental Toxicology and Pharmacology, 2014, 37, 275-283.	4.0	27
59	Impact of Indoor Physical Environment on Learning Efficiency in Different Types of Tasks: A 3 Ã— 4 Ã— 3 Full Factorial Design Analysis. International Journal of Environmental Research and Public Health, 2018, 15, 1256.	2.6	27
60	N-doped carbon dots triggered the induction of ROS-mediated cytoprotective autophagy in Hepa1-6 cells. Chemosphere, 2020, 251, 126440.	8.2	27
61	Transcriptome analysis of different sizes of 3â€mercaptopropionic acidâ€modified cadmium telluride quantum dotâ€induced toxic effects reveals immune response in rat hippocampus. Journal of Applied Toxicology, 2018, 38, 1177-1194.	2.8	26
62	MPA-modified CdTe quantum dots increased interleukin-1beta secretion through MyD88-dependent Toll-like receptor pathway and NLRP3 inflammasome activation in microglia. Toxicology in Vitro, 2018, 52, 41-51.	2.4	26
63	Genome-wide identification and functional analysis of long non-coding RNAs in human endothelial cell line after incubation with PM2.5. Chemosphere, 2019, 216, 396-403.	8.2	26
64	Inhibition of liver fibrosis using vitamin A-coupled liposomes to deliver matrix metalloproteinase-2 siRNA in vitro. Molecular Medicine Reports, 2015, 12, 3453-3461.	2.4	25
65	Integrative analysis of mRNAs, miRNAs and lncRNAs in urban particulate matter SRM 1648a-treated EA.hy926 human endothelial cells. Chemosphere, 2019, 233, 711-723.	8.2	25
66	The apoptosis induced by silica nanoparticle through endoplasmic reticulum stress response in human pulmonary alveolar epithelial cells. Toxicology in Vitro, 2019, 56, 126-132.	2.4	25
67	Research progress of nanoparticle toxicity signaling pathway. Life Sciences, 2020, 263, 118542.	4.3	25
68	CdTe and CdTe@ZnS quantum dots induce IL-1ÃŸ-mediated inflammation and pyroptosis in microglia. Toxicology in Vitro, 2020, 65, 104827.	2.4	25
69	Review of gut nanotoxicology in mammals: Exposure, transformation, distribution and toxicity. Science of the Total Environment, 2021, 773, 145078.	8.0	25
70	Research Advances on Apoptosis Caused by Quantum Dots. Biological Trace Element Research, 2014, 161, 3-12.	3.5	24
71	Molecular mechanisms underlying nickel nanoparticle induced rat Sertoli-germ cells apoptosis. Science of the Total Environment, 2019, 692, 240-248.	8.0	23
72	Risk Reduction Behaviors Regarding PM2.5 Exposure among Outdoor Exercisers in the Nanjing Metropolitan Area, China. International Journal of Environmental Research and Public Health, 2018, 15, 1728.	2.6	22

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73	Metal Oxide Nanomaterial QNAR Models: Available Structural Descriptors and Understanding of Toxicity Mechanisms. Nanomaterials, 2015, 5, 1620-1637.	4.1	21
74	Analysis of differentially changed gene expression in EA.hy926 human endothelial cell after exposure of fine particulate matter on the basis of microarray profile. Ecotoxicology and Environmental Safety, 2018, 159, 213-220.	6.0	20
75	Identification of potential circRNA-miRNA-mRNA regulatory networks in response to graphene quantum dots in microglia by microarray analysis. Ecotoxicology and Environmental Safety, 2021, 208, 111672.	6.0	20
76	Partial protection of N-acetylcysteine against MPA-capped CdTe quantum dot-induced neurotoxicity in rat primary cultured hippocampal neurons. Toxicology Research, 2015, 4, 1613-1622.	2.1	19
77	Atmospheric particulate matter impedes autophagic flux by impairing lysosomal milieu and integrity in human umbilical vein endothelial cells (HUVECs). Science of the Total Environment, 2021, 761, 143290.	8.0	19
78	A critical review of advances in reproductive toxicity of common nanomaterials to Caenorhabditis elegans and influencing factors. Environmental Pollution, 2022, 306, 119270.	7.5	19
79	The crosstalk between DRP1-dependent mitochondrial fission and oxidative stress triggers hepatocyte apoptosis induced by silver nanoparticles. Nanoscale, 2021, 13, 12356-12369.	5.6	18
80	Urban particulate matter disturbs the equilibrium of mitochondrial dynamics and biogenesis in human vascular endothelial cells. Environmental Pollution, 2020, 264, 114639.	7.5	18
81	The NLRP3-Mediated Neuroinflammatory Responses to CdTe Quantum Dots and the Protection of ZnS Shell . International Journal of Nanomedicine, 2020, Volume 15, 3217-3233.	6.7	18
82	Nitrogen-doped graphene quantum dots induce ferroptosis through disrupting calcium homeostasis in microglia. Particle and Fibre Toxicology, 2022, 19, 22.	6.2	18
83	Toxicity of quantum dots on target organs and immune system. Journal of Applied Toxicology, 2022, 42, 17-40.	2.8	17
84	Research Advances on Cytotoxicity of Cadmium-Containing Quantum Dots. Journal of Nanoscience and Nanotechnology, 2019, 19, 5375-5387.	0.9	16
85	Study on the damage of sperm induced by nickel nanoparticle exposure. Environmental Geochemistry and Health, 2020, 42, 1715-1724.	3.4	16
86	Toxicity mechanism of nanomaterials: Focus on endoplasmic reticulum stress. Science of the Total Environment, 2022, 834, 155417.	8.0	15
87	The protective effects of resveratrol, H 2 S and thermotherapy on the cell apoptosis induced by CdTe quantum dots. Toxicology in Vitro, 2017, 41, 106-113.	2.4	13
88	Protein corona mitigated the cytotoxicity of CdTe QDs to macrophages by targeting mitochondria. NanoImpact, 2022, 25, 100367.	4.5	13
89	A metabolomics study: CdTe/ZnS quantum dots induce polarization in mice microglia. Chemosphere, 2020, 246, 125629.	8.2	12
90	Neurobehavior and neuron damage following prolonged exposure of silver nanoparticles with/without polyvinylpyrrolidone coating in <scp>Caenorhabditis elegans</scp>. Journal of Applied Toxicology, 2021, 41, 2055-2067.	2.8	12

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91	Intracellular reactive oxygen species trigger mitochondrial dysfunction and apoptosis in cadmium telluride quantum dots-induced liver damage. NanoImpact, 2022, 25, 100392.	4.5	12
92	The glycolytic shift was involved in CdTe/ZnS quantum dots inducing microglial activation mediated through the mTOR signaling pathway. Journal of Applied Toxicology, 2020, 40, 388-402.	2.8	10
93	The involvement of DRP1-mediated caspase-1 activation in inflammatory response by urban particulate matter in EA.hy926 human vascular endothelial cells. Environmental Pollution, 2021, 287, 117369.	7.5	10
94	Silver nanoparticles induced hippocampal neuronal damage involved in mitophagy, mitochondrial biogenesis and synaptic degeneration. Food and Chemical Toxicology, 2022, 166, 113227.	3.6	10
95	Ambient particulate matter triggers defective autophagy and hijacks endothelial cell renewal through oxidative stress-independent lysosomal impairment. Environmental Pollution, 2021, 286, 117295.	7.5	9
96	Respiratory exposure to graphene quantum dots causes fibrotic effects on lung, liver and kidney of mice. Food and Chemical Toxicology, 2022, 163, 112971.	3.6	9
97	The key role of autophagy in silver nanoparticle-induced BV2 cells inflammation and polarization. Food and Chemical Toxicology, 2021, 154, 112324.	3.6	8
98	Microarray analysis of gene expression differences in microglia after exposure to graphene quantum dots. Science of the Total Environment, 2020, 749, 141385.	8.0	7
99	Exposure effects of inhaled nickel nanoparticles on the male reproductive system via mitochondria damage. NanoImpact, 2021, 23, 100350.	4.5	7
100	NADPH oxidases regulate endothelial inflammatory injury induced by PM_{2.5} via AKT/eNOS/NO axis. Journal of Applied Toxicology, 2022, 42, 738-749.	2.8	7
101	Study of the mechanism of mitochondrial division and mitochondrial autophagy in the male reproductive toxicity induced by nickel nanoparticles. Nanoscale, 2022, 14, 1868-1884.	5.6	7
102	Progress on the toxicity of quantum dots to model organismâ€zebrafish. Journal of Applied Toxicology, 2023, 43, 89-106.	2.8	7
103	Intermittent exposure to airborne particulate matter induces subcellular dysfunction and aortic cell damage in BALB/c mice through multi-endpoint assessment at environmentally relevant concentrations. Journal of Hazardous Materials, 2022, 424, 127169.	12.4	6
104	Advances in endocrine toxicity of nanomaterials and mechanism in hormone secretion disorders. Journal of Applied Toxicology, 2021, , .	2.8	5
105	Adverse reproductive and developmental consequences of quantum dots. Environmental Research, 2022, 213, 113666.	7.5	5
106	Mesoporous Silica Nanoparticles at Predicted Environmentally Relevant Concentrations Cause Impairments in GABAergic Motor Neurons of Nematode Caenorhabditis elegans. Chemical Research in Toxicology, 2020, 33, 1665-1676.	3.3	4
107	Urban fine particulate matter causes cardiac hypertrophy through calcium-mediated mitochondrial bioenergetics dysfunction in mice hearts and human cardiomyocytes. Environmental Pollution, 2022, 305, 119236.	7.5	4
108	Mesoporous silica shell alleviates cytotoxicity and inflammation induced by colloidal silica particles. Colloids and Surfaces B: Biointerfaces, 2014, 116, 334-342.	5.0	3

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109	The apoptosis induced by CdTe quantum dots through the mitochondrial pathway in dorsal root ganglion cell line ND7/23. Journal of Applied Toxicology, 2022, 42, 1218-1229.	2.8	3
110	Tanshinone <scp>IIA</scp>â€regulation of <scp>IL</scp>â€6 antagonizes <scp>PM₂</scp>_{.5}â€induced proliferation of human bronchial epithelial cells via a <scp>STAT3</scp>/<scp>miR</scp>â€21 reciprocal loop. Environmental Toxicology, 2022, 37, 1686-1696.	4.0	3
111	Cytotoxicity of silver nanoparticles was influenced by dispersion media in HepG2 cells. , 2013, , .		0