Tianshu Wu

List of Publications by Year
in descending order

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52 papers	1,447 citations	331670 21 h-index	345221 36 g-index
54 all docs	54 docs citations	54 times ranked	1547 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	Caenorhabditis elegans as a complete model organism for biosafety assessments of nanoparticles. Chemosphere, 2019, 221, 708-726.	8.2	86
3	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
4	The inflammatory response to silver and titanium dioxide nanoparticles in the central nervous system. Nanomedicine, 2018, 13, 233-249.	3.3	75
5	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
6	Toxicity of quantum dots on respiratory system. Inhalation Toxicology, 2014, 26, 128-139.	1.6	71
7	Silver nanoparticles modulate mitochondrial dynamics and biogenesis in HepG2 cells. Environmental Pollution, 2020, 256, 113430.	7.5	64
8	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
9	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
10	Research advances on potential neurotoxicity of quantum dots. Journal of Applied Toxicology, 2016, 36, 345-351.	2.8	42
11	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
12	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
13	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
14	Mitophagyâ€“lysosomal pathway is involved in silver nanoparticle-induced apoptosis in A549 cells. Ecotoxicology and Environmental Safety, 2021, 208, 111463.	6.0	30
15	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
16	The role of NLRP3 inflammasome activation in the neuroinflammatory responses to Ag₂Se quantum dots in microglia. Nanoscale, 2019, 11, 20820-20836.	5.6	28
17	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
18	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

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19	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
20	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
21	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
22	CdTe and CdTe@ZnS quantum dots induce IL-1ÃŸ-mediated inflammation and pyroptosis in microglia. Toxicology in Vitro, 2020, 65, 104827.	2.4	25
23	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
24	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
25	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
26	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
27	Urban particulate matter disturbs the equilibrium of mitochondrial dynamics and biogenesis in human vascular endothelial cells. Environmental Pollution, 2020, 264, 114639.	7.5	18
28	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
29	Nitrogen-doped graphene quantum dots induce ferroptosis through disrupting calcium homeostasis in microglia. Particle and Fibre Toxicology, 2022, 19, 22.	6.2	18
30	Research Advances on the Adverse Effects of Nanomaterials in a Model Organism, Caenorhabditis elegans. Environmental Toxicology and Chemistry, 2021, 40, 2406-2424.	4.3	17
31	Mining geographic episode association patterns of abnormal events in global earth science data. Science in China Series D: Earth Sciences, 2008, 51, 155-164.	0.9	14
32	A online boosting approach for traffic flow forecasting under abnormal conditions. , 2012, , .		13
33	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
34	Protein corona mitigated the cytotoxicity of CdTe QDs to macrophages by targeting mitochondria. NanoImpact, 2022, 25, 100367.	4.5	13
35	A metabolomics study: CdTe/ZnS quantum dots induce polarization in mice microglia. Chemosphere, 2020, 246, 125629.	8.2	12
36	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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37	Assessment of the Toxicity of Quantum Dots through Biliometric Analysis. International Journal of Environmental Research and Public Health, 2021, 18, 5768.	2.6	11
38	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
39	Silver nanoparticles induced hippocampal neuronal damage involved in mitophagy, mitochondrial biogenesis and synaptic degeneration. Food and Chemical Toxicology, 2022, 166, 113227.	3.6	10
40	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
41	A Deep Learning Analysis Reveals Nitrogen-Doped Graphene Quantum Dots Damage Neurons of Nematode Caenorhabditis elegans. Nanomaterials, 2021, 11, 3314.	4.1	9
42	A Multiple SVR Approach with Time Lags for Traffic Flow Prediction. , 2008, , .		8
43	The key role of autophagy in silver nanoparticle-induced BV2 cells inflammation and polarization. Food and Chemical Toxicology, 2021, 154, 112324.	3.6	8
44	A Novel Spatio-temporal Clustering Approach by Process Similarity. , 2009, , .		7
45	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
46	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
47	Differentially expressed profiles of long non-coding RNA in responses to graphene quantum dots in microglia through analysis of microarray data. NanoImpact, 2020, 19, 100244.	4.5	4
48	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
49	A Fluorescent Sensor for Daunorubicin Determination Using 808Ânm-excited Upconversion Nanoparticles. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 2868-2876.	3.7	4
50	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
51	Ag2Se quantum dots damage the nervous system of nematode Caenorhabditis elegans. Bulletin of Environmental Contamination and Toxicology, 2022, 109, 279-285.	2.7	4
52	Deducing and forecasting expressway status based on toll collection data. , 2010, , .		0