An Xu

List of Publications by Year
in descending order

56	1,335	304743 22	377865 34
papers	citations	h-index	g-index

56	56	56	2000
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The fourth crystallographic closest packing unveiled in the gold nanocluster crystal. Nature Communications, 2017, 8, 14739.	12.8	151
2	Mechanisms involved in the impact of engineered nanomaterials on the joint toxicity with environmental pollutants. Ecotoxicology and Environmental Safety, 2018, 162, 92-102.	6.0	66
3	Insights into the Ecotoxicity of Silver Nanoparticles Transferred from Escherichia coli to Caenorhabditis elegans. Scientific Reports, 2016, 6, 36465.	3.3	62
4	Molybdenum disulfide/graphene oxide nanocomposites show favorable lung targeting and enhanced drug loading/tumor-killing efficacy with improved biocompatibility. NPG Asia Materials, 2018, 10, e458-e458.	7.9	58
5	Evolved Bacterial Biosensor for Arsenite Detection in Environmental Water. Environmental Science & Technology, 2015, 49, 6149-6155.	10.0	52
6	Graphene Oxide Attenuates the Cytotoxicity and Mutagenicity of PCB 52 via Activation of Genuine Autophagy. Environmental Science & Technology, 2016, 50, 3154-3164.	10.0	48
7	Reproductive Toxicity of Endosulfan: Implication From Germ Cell Apoptosis Modulated by Mitochondrial Dysfunction and Genotoxic Response Genes in<i>Caenorhabditis elegans</i>. Toxicological Sciences, 2015, 145, 118-127.	3.1	45
8	Mutagenicity of ZnO nanoparticles in mammalian cells: Role of physicochemical transformations under the aging process. Nanotoxicology, 2015, 9, 972-982.	3.0	42
9	Perfluorooctane sulfonate exposure causes gonadal developmental toxicity in Caenorhabditis elegans through ROS-induced DNA damage. Chemosphere, 2016, 155, 115-126.	8.2	41
10	Radiation induces apoptosis primarily through the intrinsic pathway in mammalian cells. Cellular Signalling, 2019, 62, 109337.	3.6	38
11	Effect of ionic strength on bioaccumulation and toxicity of silver nanoparticles in Caenorhabditis elegans. Ecotoxicology and Environmental Safety, 2018, 165, 291-298.	6.0	37
12	Spectroscopic probe to contribution of physicochemical transformations in the toxicity of aged ZnO NPs to <i>Chlorella vulgaris</i>: new insight into the variation of toxicity of ZnO NPs under aging process. Nanotoxicology, 2016, 10, 1177-1187.	3.0	35
13	Dry Sintering Meets Wet Silverâ€•on â€œSolderingâ€• Chargeâ€Transfer Plasmon Engineering of Solutionâ€Assembled Gold Nanodimers From Visible to Nearâ€Infraredâ€…I and IIâ€…Regions. Angewandte Chemie International Edition, 2016, 55, 14296-14300.	13.8	34
14	â€œFlashâ€•preparation of strongly coupled metal nanoparticle clusters with sub-nm gaps by Ag⁺soldering: toward effective plasmonic tuning of solution-assembled nanomaterials. Chemical Science, 2016, 7, 5435-5440.	7.4	33
15	Effects of ionic strength on physicochemical properties and toxicity of silver nanoparticles. Science of the Total Environment, 2019, 647, 1088-1096.	8.0	33
16	Transgenerational effects of diesel particulate matter on Caenorhabditis elegans through maternal and multigenerational exposure. Ecotoxicology and Environmental Safety, 2019, 170, 635-643.	6.0	33
17	The biotransformation of graphene oxide in lung fluids significantly alters its inherent properties and bioactivities toward immune cells. NPG Asia Materials, 2018, 10, 385-396.	7.9	31
18	TiO2 nanoparticles enhance bioaccumulation and toxicity of heavy metals in Caenorhabditis elegans via modification of local concentrations during the sedimentation process. Ecotoxicology and Environmental Safety, 2018, 162, 160-169.	6.0	29

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19	Intratracheally instillated diesel PM2.5 significantly altered the structure and composition of indigenous murine gut microbiota. Ecotoxicology and Environmental Safety, 2021, 210, 111903.	6.0	27
20	Molecular control of arsenite-induced apoptosis in Caenorhabditis elegans: Roles of insulin-like growth factor-1 signaling pathway. Chemosphere, 2014, 112, 248-255.	8.2	26
21	A novel method for assessing the toxicity of silver nanoparticles in Caenorhabditis elegans. Chemosphere, 2017, 168, 648-657.	8.2	24
22	Amplification of arsenic genotoxicity by TiO₂ nanoparticles in mammalian cells: new insights from physicochemical interactions and mitochondria. Nanotoxicology, 2017, 11, 978-995.	3.0	23
23	N-(3-oxo-acyl) homoserine lactone induced germ cell apoptosis and suppressed the over-activated RAS/MAPK tumorigenesis via mitochondrial-dependent ROS in C. elegans. Apoptosis: an International Journal on Programmed Cell Death, 2018, 23, 626-640.	4.9	21
24	Role of nitric oxide in the genotoxic response to chronic microcystin-LR exposure in humanâ€“hamster hybrid cells. Journal of Environmental Sciences, 2015, 29, 210-218.	6.1	19
25	Preliminary investigation on cytotoxicity of fluorinated polymer nanoparticles. Journal of Environmental Sciences, 2018, 69, 217-226.	6.1	19
26	Bio-transformation of Graphene Oxide in Lung Fluids Significantly Enhances Its Photothermal Efficacy. Nanotheranostics, 2018, 2, 222-232.	5.2	18
27	Aging-independent and size-dependent genotoxic response induced by titanium dioxide nanoparticles in mammalian cells. Journal of Environmental Sciences, 2019, 85, 94-106.	6.1	18
28	Subcellular Targets of Zinc Oxide Nanoparticles During the Aging Process: Role of Cross-talk Between Mitochondrial Dysfunction and Endoplasmic Reticulum Stress in the Genotoxic Response. Toxicological Sciences, 2019, 171, 159-171.	3.1	18
29	Graphene oxide regulates <i>cox2</i> in human embryonic kidney 293T cells via epigenetic mechanisms: dynamic chromosomal interactions. Nanotoxicology, 2018, 12, 117-137.	3.0	16
30	Graphene oxide antagonizes the toxic response to arsenic<i>via</i>activation of protective autophagy and suppression of the arsenic-binding protein LEC-1 in<i>Caenorhabditis elegans</i>. Environmental Science: Nano, 2018, 5, 1711-1728.	4.3	16
31	Parental exposure to TiO₂NPs promotes the multigenerational reproductive toxicity of Cd in<i>Caenorhabditis elegans via</i>bioaccumulation of Cd in germ cells. Environmental Science: Nano, 2019, 6, 1332-1342.	4.3	16
32	Mitochondria and MAPK cascades modulate endosulfan-induced germline apoptosis in Caenorhabditis elegans. Toxicology Research, 2017, 6, 412-419.	2.1	15
33	Disruption of Chromosomal Architecture of cox2 Locus Sensitizes Lung Cancer Cells to Radiotherapy. Molecular Therapy, 2018, 26, 2456-2465.	8.2	15
34	Chemoresponsive Colloidosomes via Ag⁺ Soldering of Surface-Assembled Nanoparticle Monolayers. Langmuir, 2015, 31, 4589-4592.	3.5	14
35	Antagonizing CDK8 Sensitizes Colorectal Cancer to Radiation Through Potentiating the Transcription of e2f1 Target Gene apaf1. Frontiers in Cell and Developmental Biology, 2020, 8, 408.	3.7	14
36	Dry Sintering Meets Wet Silverâ€on â€œSolderingâ€: Chargeâ€Transfer Plasmon Engineering of Solutionâ€Assembled Gold Nanodimers From Visible to Nearâ€Infraredâ€…I and IIâ€…Regions. Angewandte Chemie, 2016, 128, 14508-14512.	2.0	12

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37	Downregulation of CDC20 Increases Radiosensitivity through Mcl-1/p-Chk1-Mediated DNA Damage and Apoptosis in Tumor Cells. International Journal of Molecular Sciences, 2020, 21, 6692.	4.1	12
38	DNA damage-induced translocation of mitochondrial factor HIGD1A into the nucleus regulates homologous recombination and radio/chemo-sensitivity. Oncogene, 2022, 41, 1918-1930.	5.9	12
39	Pan-Cancer Analysis of Radiotherapy Benefits and Immune Infiltration in Multiple Human Cancers. Cancers, 2020, 12, 957.	3.7	10
40	Silver nanoparticles protect against arsenic induced genotoxicity via attenuating arsenic bioaccumulation and elevating antioxidation in mammalian cells. Journal of Hazardous Materials, 2021, 413, 125287.	12.4	10
41	Monitoring arsenic using genetically encoded biosensors in vitro: The role of evolved regulatory genes. Ecotoxicology and Environmental Safety, 2021, 207, 111273.	6.0	9
42	Spatial function of the oxidative DNA damage response in radiation induced bystander effects in intra- and inter-system of<i>Caenorhabditis elegans</i>. Oncotarget, 2017, 8, 51253-51263.	1.8	9
43	Fluorescent G-quadruplexâ€“NMM DNA probe for the detection of silver nanoparticles in aqueous media. Analytical Methods, 2015, 7, 1672-1675.	2.7	8
44	Mutagenic Effects of Perfluorooctanesulfonic Acid in <i>gpt</i> Delta Transgenic System Are Mediated by Hydrogen Peroxide. Environmental Science & Technology, 2015, 49, 6294-6303.	10.0	8
45	Autophagy-Src Regulates Connexin43-Mediated Gap Junction Intercellular Communication in Irradiated HepG2 Cells. Radiation Research, 2018, 190, 494.	1.5	8
46	dbCRSR: a manually curated database for regulation of cancer radiosensitivity. Database: the Journal of Biological Databases and Curation, 2018, 2018, .	3.0	8
47	Investigating the environmental factors affecting the toxicity of silver nanoparticles in Escherichia coli with dual fluorescence analysis. Chemosphere, 2016, 155, 329-335.	8.2	6
48	Lipid Metabolism was Interfered by Phosphatidylcholine-Coated Magnetic Nanoparticles in <i>C. elegans</i> Exposed to 0.5 T Static Magnetic Field. Journal of Nanoscience and Nanotechnology, 2017, 17, 3172-3180.	0.9	6
49	Transgenerational reproductive toxicity of 2,4,6-trinitrotoluene (TNT) and its metabolite 4-ADNT in Caenorhabditis elegans. Environmental Toxicology and Pharmacology, 2022, 92, 103865.	4.0	6
50	Moderate intensity of static magnetic fields can alter the avoidance behavior and fat storage of Caenorhabditis elegans via serotonin. Environmental Science and Pollution Research, 2022, 29, 43102-43113.	5.3	5
51	The Roles of p21Waf1/CIP1 and Hus1 in Generation and Transmission of Damage Signals Stimulated by Low-Dose Alpha-Particle Irradiation. Radiation Research, 2015, 184, 578.	1.5	4
52	The acidic transformed nano-VO 2 causes macrophage cell death by the induction of lysosomal membrane permeabilization and Ca 2+ efflux. Toxicology Reports, 2015, 2, 870-879.	3.3	4
53	Assessment of Genotoxic Effects by Constructing a 3D Cellular System with Highly Sensitive Mutagenic Humanâ€“Hamster Hybrid Cells. Chemical Research in Toxicology, 2018, 31, 594-600.	3.3	4
54	Sizeâ€Dependent Cytotoxicity of Thiolated Silver Nanoparticles Rapidly Probed by using Differential Pulse Voltammetry. ChemElectroChem, 2016, 3, 1197-1200.	3.4	3

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55	Assessment of the cytotoxic and mutagenic potential of the Jialu River and adjacent groundwater using human-hamster hybrid cells. Journal of Environmental Sciences, 2018, 70, 133-143.	6.1	2
56	Combined biological effects of silver nanoparticles and heavy metals in different target cell lines. Environmental Science and Pollution Research, 2022, 29, 16324-16331.	5.3	2