

Mohd Javed Akhtar

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68

papers

3,028

citations

28

h-index

54

g-index

69

ext. papers

3,643

ext. citations

4.9

avg, IF

5.59

L-index

#	Paper	IF	Citations
68	Zinc oxide nanoparticles selectively induce apoptosis in human cancer cells through reactive oxygen species. <i>International Journal of Nanomedicine</i> , 2012 , 7, 845-57	7.3	348
67	Genotoxic potential of copper oxide nanoparticles in human lung epithelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 396, 578-83	3.4	275
66	Oxidative stress mediated apoptosis induced by nickel ferrite nanoparticles in cultured A549 cells. <i>Toxicology</i> , 2011 , 283, 101-8	4.4	244
65	ZnO nanorod-induced apoptosis in human alveolar adenocarcinoma cells via p53, survivin and bax/bcl-2 pathways: role of oxidative stress. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2011 , 7, 904-13	6	184
64	Apoptosis induction by silica nanoparticles mediated through reactive oxygen species in human liver cell line HepG2. <i>Toxicology and Applied Pharmacology</i> , 2012 , 259, 160-8	4.6	162
63	Targeted anticancer therapy: overexpressed receptors and nanotechnology. <i>Clinica Chimica Acta</i> , 2014 , 436, 78-92	6.2	141
62	Nanotoxicity of pure silica mediated through oxidant generation rather than glutathione depletion in human lung epithelial cells. <i>Toxicology</i> , 2010 , 276, 95-102	4.4	136
61	Nickel oxide nanoparticles exert cytotoxicity via oxidative stress and induce apoptotic response in human liver cells (HepG2). <i>Chemosphere</i> , 2013 , 93, 2514-22	8.4	115
60	Ag-doping regulates the cytotoxicity of TiO nanoparticles via oxidative stress in human cancer cells. <i>Scientific Reports</i> , 2017 , 7, 17662	4.9	82
59	Mechanism of ROS scavenging and antioxidant signalling by redox metallic and fullerene nanomaterials: Potential implications in ROS associated degenerative disorders. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 802-813	4	79
58	Assessment of the lung toxicity of copper oxide nanoparticles: current status. <i>Nanomedicine</i> , 2015 , 10, 2365-77	5.6	71
57	Dose-dependent genotoxicity of copper oxide nanoparticles stimulated by reactive oxygen species in human lung epithelial cells. <i>Toxicology and Industrial Health</i> , 2016 , 32, 809-21	1.8	71
56	Aluminum doping tunes band gap energy level as well as oxidative stress-mediated cytotoxicity of ZnO nanoparticles in MCF-7 cells. <i>Scientific Reports</i> , 2015 , 5, 13876	4.9	70
55	Comparative cytotoxic response of nickel ferrite nanoparticles in human liver HepG2 and breast MFC-7 cancer cells. <i>Chemosphere</i> , 2015 , 135, 278-88	8.4	63
54	Oxidative stress mediated cytotoxicity and apoptosis response of bismuth oxide (BiO) nanoparticles in human breast cancer (MCF-7) cells. <i>Chemosphere</i> , 2019 , 216, 823-831	8.4	50
53	Copper ferrite nanoparticle-induced cytotoxicity and oxidative stress in human breast cancer MCF-7 cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 142, 46-54	6	49
52	Glutathione replenishing potential of CeO ₂ nanoparticles in human breast and fibrosarcoma cells. <i>Journal of Colloid and Interface Science</i> , 2015 , 453, 21-27	9.3	46

51	Role of Zn doping in oxidative stress mediated cytotoxicity of TiO ₂ nanoparticles in human breast cancer MCF-7 cells. <i>Scientific Reports</i> , 2016 , 6, 30196	4.9	46
50	Zinc ferrite nanoparticle-induced cytotoxicity and oxidative stress in different human cells. <i>Cell and Bioscience</i> , 2015 , 5, 55	9.8	43
49	Selective killing of cancer cells by iron oxide nanoparticles mediated through reactive oxygen species via p53 pathway. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	42
48	Cobalt iron oxide nanoparticles induce cytotoxicity and regulate the apoptotic genes through ROS in human liver cells (HepG2). <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 148, 665-673	6	40
47	Protective effect of sulphoraphane against oxidative stress mediated toxicity induced by CuO nanoparticles in mouse embryonic fibroblasts BALB 3T3. <i>Journal of Toxicological Sciences</i> , 2012 , 37, 139-148	1.9	38
46	Selective cancer-killing ability of metal-based nanoparticles: implications for cancer therapy. <i>Archives of Toxicology</i> , 2015 , 89, 1895-907	5.8	35
45	SnO-Doped ZnO/Reduced Graphene Oxide Nanocomposites: Synthesis, Characterization, and Improved Anticancer Activity via Oxidative Stress Pathway. <i>International Journal of Nanomedicine</i> , 2021 , 16, 89-104	7.3	35
44	Antioxidative and cytoprotective response elicited by molybdenum nanoparticles in human cells. <i>Journal of Colloid and Interface Science</i> , 2015 , 457, 370-7	9.3	34
43	The primary role of iron-mediated lipid peroxidation in the differential cytotoxicity caused by two varieties of talc nanoparticles on A549 cells and lipid peroxidation inhibitory effect exerted by ascorbic acid. <i>Toxicology in Vitro</i> , 2010 , 24, 1139-47	3.6	34
42	Preventive effect of TiO nanoparticles on heavy metal Pb-induced toxicity in human lung epithelial (A549) cells. <i>Toxicology in Vitro</i> , 2019 , 57, 18-27	3.6	32
41	Differential cytotoxicity of copper ferrite nanoparticles in different human cells. <i>Journal of Applied Toxicology</i> , 2016 , 36, 1284-93	4.1	32
40	Mesoporous multi-silica layer-coated YO:Eu core-shell nanoparticles: Synthesis, luminescent properties and cytotoxicity evaluation. <i>Materials Science and Engineering C</i> , 2019 , 96, 365-373	8.3	28
39	Environmental lead exposure as a risk for childhood aplastic anemia. <i>BioScience Trends</i> , 2011 , 5, 38-43	9.9	27
38	Nanocubes of indium oxide induce cytotoxicity and apoptosis through oxidative stress in human lung epithelial cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 156, 157-164	6	24
37	Co-Exposure to SiO Nanoparticles and Arsenic Induced Augmentation of Oxidative Stress and Mitochondria-Dependent Apoptosis in Human Cells. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	24
36	Oxidative stress mediated cytotoxicity of tin (IV) oxide (SnO) nanoparticles in human breast cancer (MCF-7) cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 172, 152-160	6	24
35	Nanotoxicity of cobalt induced by oxidant generation and glutathione depletion in MCF-7 cells. <i>Toxicology in Vitro</i> , 2017 , 40, 94-101	3.6	22
34	Elevated blood lead levels and cytogenetic markers in buccal epithelial cells of painters in India: genotoxicity in painters exposed to lead containing paints. <i>Environmental Science and Pollution Research</i> , 2010 , 17, 1347-54	5.1	21

33	Different cytotoxic and apoptotic responses of MCF-7 and HT1080 cells to MnO nanoparticles are based on similar mode of action. <i>Toxicology</i> , 2019 , 411, 71-80	4.4	21
32	Cytotoxicity and apoptosis induction by nanoscale talc particles from two different geographical regions in human lung epithelial cells. <i>Environmental Toxicology</i> , 2014 , 29, 394-406	4.2	16
31	Facile green synthesis of ZnO-RGO nanocomposites with enhanced anticancer efficacy. <i>Methods</i> , 2021 , 199, 28-28	4.6	15
30	TiO nanoparticles potentiated the cytotoxicity, oxidative stress and apoptosis response of cadmium in two different human cells. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 10425-10435	5.1	14
29	A Novel Green Preparation of Ag/RGO Nanocomposites with Highly Effective Anticancer Performance. <i>Polymers</i> , 2021 , 13,	4.5	14
28	Mitochondrial dysfunction, autophagy stimulation and non-apoptotic cell death caused by nitric oxide-inducing Pt-coated Au nanoparticle in human lung carcinoma cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020 , 1864, 129452	4	14
27	Evaluation of the Cytotoxicity and Oxidative Stress Response of CeO-RGO Nanocomposites in Human Lung Epithelial A549 Cells. <i>Nanomaterials</i> , 2019 , 9,	5.4	14
26	Therapeutic targets in the selective killing of cancer cells by nanomaterials. <i>Clinica Chimica Acta</i> , 2017 , 469, 53-62	6.2	13
25	Copper doping enhanced the oxidative stress-mediated cytotoxicity of TiO nanoparticles in A549 cells. <i>Human and Experimental Toxicology</i> , 2018 , 37, 496-507	3.4	13
24	MgO nanoparticles cytotoxicity caused primarily by GSH depletion in human lung epithelial cells. <i>Journal of Trace Elements in Medicine and Biology</i> , 2018 , 50, 283-290	4.1	13
23	Facile Synthesis of Zn-Doped BiO Nanoparticles and Their Selective Cytotoxicity toward Cancer Cells. <i>ACS Omega</i> , 2021 , 6, 17353-17361	3.9	12
22	Challenges facing nanotoxicology and nanomedicine due to cellular diversity. <i>Clinica Chimica Acta</i> , 2018 , 487, 186-196	6.2	12
21	Enhanced Anticancer Performance of Eco-Friendly-Prepared Mo-ZnO/RGO Nanocomposites: Role of Oxidative Stress and Apoptosis.. <i>ACS Omega</i> , 2022 , 7, 71103-71115	3.9	10
20	Reduced graphene oxide mitigates cadmium-induced cytotoxicity and oxidative stress in HepG2 cells. <i>Food and Chemical Toxicology</i> , 2020 , 143, 111515	4.7	9
19	Gadolinium Oxide Nanoparticles Induce Toxicity in Human Endothelial HUVECs via Lipid Peroxidation, Mitochondrial Dysfunction and Autophagy Modulation. <i>Nanomaterials</i> , 2020 , 10,	5.4	9
18	Investigation of Cytotoxicity, Apoptosis, and Oxidative Stress Response of FeO-RGO Nanocomposites in Human Liver HepG2 cells. <i>Materials</i> , 2020 , 13,	3.5	8
17	Cytotoxic response of platinum-coated gold nanorods in human breast cancer cells at very low exposure levels. <i>Environmental Toxicology</i> , 2016 , 31, 1344-1356	4.2	7
16	Toxicity Mechanism of Gadolinium Oxide Nanoparticles and Gadolinium Ions in Human Breast Cancer Cells. <i>Current Drug Metabolism</i> , 2019 , 20, 907-917	3.5	7

15	High Surface Reactivity and Biocompatibility of YO NPs in Human MCF-7 Epithelial and HT-1080 Fibroblast Cells. <i>Molecules</i> , 2020 , 25,	4.8	6
14	Influence of silica nanoparticles on cadmium-induced cytotoxicity, oxidative stress, and apoptosis in human liver HepG2 cells. <i>Environmental Toxicology</i> , 2020 , 35, 599-608	4.2	6
13	Nano-talc stabilizes TNF-alpha m-RNA in human macrophages. <i>Journal of Biomedical Nanotechnology</i> , 2011 , 7, 112-3	4	4
12	Barium Titanate (BaTiO) Nanoparticles Exert Cytotoxicity through Oxidative Stress in Human Lung Carcinoma (A549) Cells. <i>Nanomaterials</i> , 2020 , 10,	5.4	4
11	Co-exposure of BiO nanoparticles and bezo[a]pyrene-enhanced in vitro cytotoxicity of mouse spermatogonia cells. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 17109-17118	5.1	4
10	Alleviating effects of reduced graphene oxide against lead-induced cytotoxicity and oxidative stress in human alveolar epithelial (A549) cells. <i>Journal of Applied Toxicology</i> , 2020 , 40, 1228-1238	4.1	3
9	Facile Synthesis, Characterization, Photocatalytic Activity, and Cytotoxicity of Ag-Doped MgO Nanoparticles. <i>Nanomaterials</i> , 2021 , 11,	5.4	3
8	Single-Walled Carbon Nanotubes Attenuate Cytotoxic and Oxidative Stress Response of Pb in Human Lung Epithelial (A549) Cells. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	3
7	Anti-Inflammatory CeO Nanoparticles Prevented Cytotoxicity Due to Exogenous Nitric Oxide Donors via Induction Rather Than Inhibition of Superoxide/Nitric Oxide in HUVE Cells. <i>Molecules</i> , 2021 , 26,	4.8	2
6	Toxic responses in primary rat hepatocytes exposed with occupational dust collected from work environment of bone-based industrial unit. <i>Chemosphere</i> , 2011 , 83, 455-60	8.4	1
5	Nanotoxicity of dolomite mineral of commercial importance in India. <i>Journal of Biomedical Nanotechnology</i> , 2011 , 7, 114-5	4	1
4	Cytotoxicity and apoptosis response of hexagonal zinc oxide nanorods against human hepatocellular liver carcinoma cell line. <i>Journal of King Saud University - Science</i> , 2021 , 33, 101658	3.6	1
3	Pt-Coated Au Nanoparticle Toxicity Is Preferentially Triggered Via Mitochondrial Nitric Oxide/Reactive Oxygen Species in Human Liver Cancer (HepG2) Cells. <i>ACS Omega</i> , 2021 , 6, 15431-15441	3.9	1
2	CeO ₂ -Zn Nanocomposite Induced Superoxide, Autophagy and a Non-Apoptotic Mode of Cell Death in Human Umbilical-Vein-Derived Endothelial (HUVE) Cells. <i>Toxics</i> , 2022 , 10, 250	4.7	1
1	One-Pot Synthesis of SnO ₂ -rGO Nanocomposite for Enhanced Photocatalytic and Anticancer Activity. <i>Polymers</i> , 2022 , 14, 2036	4.5	0