

# Mohd Javed Akhtar

## List of Publications by Year in descending order

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Version: 2024-02-01

69  
papers

4,219  
citations

134610

34  
h-index

124990

64  
g-index

69  
all docs

69  
docs citations

69  
times ranked

6742  
citing authors

#	ARTICLE	IF	CITATIONS
1	Facile green synthesis of ZnO-RGO nanocomposites with enhanced anticancer efficacy. <i>Methods</i> , 2022, 199, 28-36.	1.9	63
2	Enhanced Anticancer Performance of Eco-Friendly-Prepared Mo-ZnO/RGO Nanocomposites: Role of Oxidative Stress and Apoptosis. <i>ACS Omega</i> , 2022, 7, 7103-7115.	1.6	40
3	One-Pot Synthesis of SnO <sub>2</sub> -rGO Nanocomposite for Enhanced Photocatalytic and Anticancer Activity. <i>Polymers</i> , 2022, 14, 2036.	2.0	13
4	CeO <sub>2</sub> -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.	1.6	6
5	Combined effect of single-walled carbon nanotubes and cadmium on human lung cancer cells. <i>Environmental Science and Pollution Research</i> , 2022, 29, 87844-87857.	2.7	9
6	SnO <sub>2</sub> -Doped ZnO/Reduced Graphene Oxide Nanocomposites: Synthesis, Characterization, and Improved Anticancer Activity via Oxidative Stress Pathway. <i>International Journal of Nanomedicine</i> , 2021, Volume 16, 89-104.	3.3	95
7	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.	1.6	5
8	Facile Synthesis of Zn-Doped Bi <sub>2</sub> O <sub>3</sub> Nanoparticles and Their Selective Cytotoxicity toward Cancer Cells. <i>ACS Omega</i> , 2021, 6, 17353-17361.	1.6	48
9	Anti-Inflammatory CeO <sub>2</sub> 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, 5416.	1.7	8
10	Co-exposure of Bi <sub>2</sub> O <sub>3</sub> nanoparticles and bezo[a]pyrene-enhanced in vitro cytotoxicity of mouse spermatogonia cells. <i>Environmental Science and Pollution Research</i> , 2021, 28, 17109-17118.	2.7	16
11	A Novel Green Preparation of Ag/RGO Nanocomposites with Highly Effective Anticancer Performance. <i>Polymers</i> , 2021, 13, 3350.	2.0	44
12	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.	1.6	6
13	Facile Synthesis, Characterization, Photocatalytic Activity, and Cytotoxicity of Ag-Doped MgO Nanoparticles. <i>Nanomaterials</i> , 2021, 11, 2915.	1.9	36
14	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.	1.1	17
15	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.	2.1	11
16	Barium Titanate (BaTiO <sub>3</sub> ) Nanoparticles Exert Cytotoxicity through Oxidative Stress in Human Lung Carcinoma (A549) Cells. <i>Nanomaterials</i> , 2020, 10, 2309.	1.9	20
17	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, 8221.	1.2	9
18	Gadolinium Oxide Nanoparticles Induce Toxicity in Human Endothelial HUVECs via Lipid Peroxidation, Mitochondrial Dysfunction and Autophagy Modulation. <i>Nanomaterials</i> , 2020, 10, 1675.	1.9	27

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19	High Surface Reactivity and Biocompatibility of Y <sub>2</sub> O <sub>3</sub> NPs in Human MCF-7 Epithelial and HT-1080 Fibro-Blast Cells. <i>Molecules</i> , 2020, 25, 1137.	1.7	10
20	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.	1.4	5
21	Reduced graphene oxide mitigates cadmium-induced cytotoxicity and oxidative stress in HepG2 cells. <i>Food and Chemical Toxicology</i> , 2020, 143, 111515.	1.8	21
22	Investigation of Cytotoxicity, Apoptosis, and Oxidative Stress Response of Fe <sub>3</sub> O <sub>4</sub> -RGO Nanocomposites in Human Liver HepG2 cells. <i>Materials</i> , 2020, 13, 660.	1.3	14
23	TiO <sub>2</sub> 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.	2.7	29
24	Co-Exposure to SiO <sub>2</sub> 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, 3199.	1.2	36
25	Preventive effect of TiO <sub>2</sub> nanoparticles on heavy metal Pb-induced toxicity in human lung epithelial (A549) cells. <i>Toxicology in Vitro</i> , 2019, 57, 18-27.	1.1	53
26	Evaluation of the Cytotoxicity and Oxidative Stress Response of CeO <sub>2</sub> -RGO Nanocomposites in Human Lung Epithelial A549 Cells. <i>Nanomaterials</i> , 2019, 9, 1709.	1.9	28
27	Different cytotoxic and apoptotic responses of MCF-7 and HT1080 cells to MnO <sub>2</sub> nanoparticles are based on similar mode of action. <i>Toxicology</i> , 2019, 411, 71-80.	2.0	36
28	Mesoporous multi-silica layer-coated Y <sub>2</sub> O <sub>3</sub> :Eu core-shell nanoparticles: Synthesis, luminescent properties and cytotoxicity evaluation. <i>Materials Science and Engineering C</i> , 2019, 96, 365-373.	3.8	42
29	Oxidative stress mediated cytotoxicity and apoptosis response of bismuth oxide (Bi <sub>2</sub> O <sub>3</sub> ) nanoparticles in human breast cancer (MCF-7) cells. <i>Chemosphere</i> , 2019, 216, 823-831.	4.2	85
30	Toxicity Mechanism of Gadolinium Oxide Nanoparticles and Gadolinium Ions in Human Breast Cancer Cells. <i>Current Drug Metabolism</i> , 2019, 20, 907-917.	0.7	14
31	Copper doping enhanced the oxidative stress-mediated cytotoxicity of TiO <sub>2</sub> nanoparticles in A549 cells. <i>Human and Experimental Toxicology</i> , 2018, 37, 496-507.	1.1	21
32	Challenges facing nanotoxicology and nanomedicine due to cellular diversity. <i>Clinica Chimica Acta</i> , 2018, 487, 186-196.	0.5	17
33	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.	1.5	23
34	Oxidative stress mediated cytotoxicity of tin (IV) oxide (SnO <sub>2</sub> ) nanoparticles in human breast cancer (MCF-7) cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 172, 152-160.	2.5	39
35	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.	1.1	118
36	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.	2.5	30

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37	Therapeutic targets in the selective killing of cancer cells by nanomaterials. <i>Clinica Chimica Acta</i> , 2017, 469, 53-62.	0.5	14
38	Nanotoxicity of cobalt induced by oxidant generation and glutathione depletion in MCF-7 cells. <i>Toxicology in Vitro</i> , 2017, 40, 94-101.	1.1	32
39	Ag-doping regulates the cytotoxicity of TiO <sub>2</sub> nanoparticles via oxidative stress in human cancer cells. <i>Scientific Reports</i> , 2017, 7, 17662.	1.6	127
40	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, 809-821.	0.6	91
41	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.	2.5	56
42	Role of Zn doping in oxidative stress mediated cytotoxicity of TiO <sub>2</sub> nanoparticles in human breast cancer MCF-7 cells. <i>Scientific Reports</i> , 2016, 6, 30196.	1.6	74
43	Differential cytotoxicity of copper ferrite nanoparticles in different human cells. <i>Journal of Applied Toxicology</i> , 2016, 36, 1284-1293.	1.4	47
44	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.	2.5	66
45	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.	2.1	8
46	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.	1.6	110
47	Comparative cytotoxic response of nickel ferrite nanoparticles in human liver HepG2 and breast MFC-7 cancer cells. <i>Chemosphere</i> , 2015, 135, 278-288.	4.2	79
48	Selective cancer-killing ability of metal-based nanoparticles: implications for cancer therapy. <i>Archives of Toxicology</i> , 2015, 89, 1895-1907.	1.9	45
49	Antioxidative and cytoprotective response elicited by molybdenum nanoparticles in human cells. <i>Journal of Colloid and Interface Science</i> , 2015, 457, 370-377.	5.0	45
50	Glutathione replenishing potential of CeO <sub>2</sub> nanoparticles in human breast and fibrosarcoma cells. <i>Journal of Colloid and Interface Science</i> , 2015, 453, 21-27.	5.0	52
51	Zinc ferrite nanoparticle-induced cytotoxicity and oxidative stress in different human cells. <i>Cell and Bioscience</i> , 2015, 5, 55.	2.1	57
52	Assessment of the lung toxicity of copper oxide nanoparticles: current status. <i>Nanomedicine</i> , 2015, 10, 2365-2377.	1.7	91
53	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.	2.1	19
54	Targeted anticancer therapy: Overexpressed receptors and nanotechnology. <i>Clinica Chimica Acta</i> , 2014, 436, 78-92.	0.5	184

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55	Nickel oxide nanoparticles exert cytotoxicity via oxidative stress and induce apoptotic response in human liver cells (HepG2). <i>Chemosphere</i> , 2013, 93, 2514-2522.	4.2	143
56	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.	0.8	55
57	Zinc oxide nanoparticles selectively induce apoptosis in human cancer cells through reactive oxygen species. <i>International Journal of Nanomedicine</i> , 2012, 7, 845.	3.3	435
58	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.	0.7	43
59	Apoptosis induction by silica nanoparticles mediated through reactive oxygen species in human liver cell line HepG2. <i>Toxicology and Applied Pharmacology</i> , 2012, 259, 160-168.	1.3	183
60	Nano-Talc Stabilizes TNF- $\alpha$ mRNA in Human Macrophages. <i>Journal of Biomedical Nanotechnology</i> , 2011, 7, 112-113.	0.5	5
61	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, 904-913.	1.7	209
62	Toxic responses in primary rat hepatocytes exposed with occupational dust collected from work environment of bone-based industrial unit. <i>Chemosphere</i> , 2011, 83, 455-460.	4.2	1
63	Oxidative stress mediated apoptosis induced by nickel ferrite nanoparticles in cultured A549 cells. <i>Toxicology</i> , 2011, 283, 101-108.	2.0	279
64	Environmental lead exposure as a risk for childhood aplastic anemia. <i>BioScience Trends</i> , 2011, 5, 38-43.	1.1	28
65	Nanotoxicity of Dolomite Mineral of Commercial Importance in India. <i>Journal of Biomedical Nanotechnology</i> , 2011, 7, 114-115.	0.5	1
66	Elevated blood lead levels and cytogenetic markers in buccal epithelial cells of painters in India. <i>Environmental Science and Pollution Research</i> , 2010, 17, 1347-1354.	2.7	26
67	Nanotoxicity of pure silica mediated through oxidant generation rather than glutathione depletion in human lung epithelial cells. <i>Toxicology</i> , 2010, 276, 95-102.	2.0	161
68	Genotoxic potential of copper oxide nanoparticles in human lung epithelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2010, 396, 578-583.	1.0	321
69	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, 1139-1147.	1.1	38