

# Hisham A Alhadlaq

## List of Publications by Year in descending order

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82  
papers

4,456  
citations

94433

37  
h-index

106344

65  
g-index

82  
all docs

82  
docs citations

82  
times ranked

5771  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis, Characterization, and Antimicrobial Activity of Copper Oxide Nanoparticles. Journal of Nanomaterials, 2014, 2014, 1-4.	2.7	330
2	Genotoxic potential of copper oxide nanoparticles in human lung epithelial cells. Biochemical and Biophysical Research Communications, 2010, 396, 578-583.	2.1	321
3	Copper Oxide Nanoparticles Induced Mitochondria Mediated Apoptosis in Human Hepatocarcinoma Cells. PLoS ONE, 2013, 8, e69534.	2.5	285
4	Orientational dependence of T2 relaxation in articular cartilage: A microscopic MRI (?MRI) study. Magnetic Resonance in Medicine, 2002, 48, 460-469.	3.0	202
5	Targeted anticancer therapy: Overexpressed receptors and nanotechnology. Clinica Chimica Acta, 2014, 436, 78-92.	1.1	184
6	Nickel oxide nanoparticles exert cytotoxicity via oxidative stress and induce apoptotic response in human liver cells (HepG2). Chemosphere, 2013, 93, 2514-2522.	8.2	143
7	Ag-doping regulates the cytotoxicity of TiO2 nanoparticles via oxidative stress in human cancer cells. Scientific Reports, 2017, 7, 17662.	3.3	127
8	Mechanism of ROS scavenging and antioxidant signalling by redox metallic and fullerene nanomaterials: Potential implications in ROS associated degenerative disorders. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 802-813.	2.4	118
9	Iron Oxide Nanoparticle-induced Oxidative Stress and Genotoxicity in Human Skin Epithelial and Lung Epithelial Cell Lines. Current Pharmaceutical Design, 2013, 19, 6681-6690.	1.9	114
10	Aluminum doping tunes band gap energy level as well as oxidative stress-mediated cytotoxicity of ZnO nanoparticles in MCF-7 cells. Scientific Reports, 2015, 5, 13876.	3.3	110
11	Detecting structural changes in early experimental osteoarthritis of tibial cartilage by microscopic magnetic resonance imaging and polarised light microscopy. Annals of the Rheumatic Diseases, 2004, 63, 709-717.	0.9	106
12	SnO2-Doped ZnO/Reduced Graphene Oxide Nanocomposites: Synthesis, Characterization, and Improved Anticancer Activity via Oxidative Stress Pathway. International Journal of Nanomedicine, 2021, Volume 16, 89-104.	6.7	95
13	Assessment of the lung toxicity of copper oxide nanoparticles: current status. Nanomedicine, 2015, 10, 2365-2377.	3.3	91
14	Dose-dependent genotoxicity of copper oxide nanoparticles stimulated by reactive oxygen species in human lung epithelial cells. Toxicology and Industrial Health, 2016, 32, 809-821.	1.4	91
15	Imaging the physical and morphological properties of a multi-zone young articular cartilage at microscopic resolution. Journal of Magnetic Resonance Imaging, 2003, 17, 365-374.	3.4	88
16	Oxidative stress mediated cytotoxicity and apoptosis response of bismuth oxide (Bi2O3) nanoparticles in human breast cancer (MCF-7) cells. Chemosphere, 2019, 216, 823-831.	8.2	85
17	Comparative cytotoxic response of nickel ferrite nanoparticles in human liver HepG2 and breast MCF-7 cancer cells. Chemosphere, 2015, 135, 278-288.	8.2	79
18	Role of Zn doping in oxidative stress mediated cytotoxicity of TiO2 nanoparticles in human breast cancer MCF-7 cells. Scientific Reports, 2016, 6, 30196.	3.3	74

#	ARTICLE	IF	CITATIONS
19	Concentration-dependent induction of reactive oxygen species, cell cycle arrest and apoptosis in human liver cells after nickel nanoparticles exposure. <i>Environmental Toxicology</i> , 2015, 30, 137-148.	4.0	71
20	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.	5.0	66
21	Facile green synthesis of ZnO-RGO nanocomposites with enhanced anticancer efficacy. <i>Methods</i> , 2022, 199, 28-36.	3.8	63
22	Induction of oxidative stress, DNA damage, and apoptosis in a malignant human skin melanoma cell line after exposure to zinc oxide nanoparticles. <i>International Journal of Nanomedicine</i> , 2013, 8, 983.	6.7	62
23	The structural adaptations in compressed articular cartilage by microscopic MRI (1/4MRI) T2 anisotropy. <i>Osteoarthritis and Cartilage</i> , 2004, 12, 887-894.	1.3	59
24	Zinc ferrite nanoparticle-induced cytotoxicity and oxidative stress in different human cells. <i>Cell and Bioscience</i> , 2015, 5, 55.	4.8	57
25	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.	5.0	56
26	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.	1.9	55
27	Molybdenum nanoparticles-induced cytotoxicity, oxidative stress, G2/M arrest, and DNA damage in mouse skin fibroblast cells (L929). <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 125, 73-81.	5.0	55
28	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.	2.4	53
29	Characteristics of topographical heterogeneity of articular cartilage over the joint surface of a humeral head. <i>Osteoarthritis and Cartilage</i> , 2002, 10, 370-380.	1.3	52
30	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.	9.4	52
31	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.	3.5	48
32	Differential cytotoxicity of copper ferrite nanoparticles in different human cells. <i>Journal of Applied Toxicology</i> , 2016, 36, 1284-1293.	2.8	47
33	Selective cancer-killing ability of metal-based nanoparticles: implications for cancer therapy. <i>Archives of Toxicology</i> , 2015, 89, 1895-1907.	4.2	45
34	Antioxidative and cytoprotective response elicited by molybdenum nanoparticles in human cells. <i>Journal of Colloid and Interface Science</i> , 2015, 457, 370-377.	9.4	45
35	Nickel nanoparticle-induced dose-dependent cyto-genotoxicity in human breast carcinoma MCF-7 cells. <i>OncoTargets and Therapy</i> , 2014, 7, 269.	2.0	44
36	A Novel Green Preparation of Ag/RGO Nanocomposites with Highly Effective Anticancer Performance. <i>Polymers</i> , 2021, 13, 3350.	4.5	44

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37	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.	3.5	40
38	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.	5.0	39
39	Comparative effectiveness of NiCl <sub>2</sub> , Ni- and NiO-NPs in controlling oral bacterial growth and biofilm formation on oral surfaces. <i>Archives of Oral Biology</i> , 2013, 58, 1804-1811.	1.8	38
40	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.	2.6	36
41	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.	4.2	36
42	Facile Synthesis, Characterization, Photocatalytic Activity, and Cytotoxicity of Ag-Doped MgO Nanoparticles. <i>Nanomaterials</i> , 2021, 11, 2915.	4.1	36
43	Molecular and morphological adaptations in compressed articular cartilage by polarized light microscopy and Fourier-transform infrared imaging. <i>Journal of Structural Biology</i> , 2008, 164, 88-95.	2.8	34
44	Modifications of orientational dependence of microscopic magnetic resonance imaging T2 anisotropy in compressed articular cartilage. <i>Journal of Magnetic Resonance Imaging</i> , 2005, 22, 665-673.	3.4	33
45	Nanotoxicity of cobalt induced by oxidant generation and glutathione depletion in MCF-7 cells. <i>Toxicology in Vitro</i> , 2017, 40, 94-101.	2.4	32
46	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.	5.0	30
47	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.	5.3	29
48	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.	4.1	28
49	Gadolinium Oxide Nanoparticles Induce Toxicity in Human Endothelial HUVECs via Lipid Peroxidation, Mitochondrial Dysfunction and Autophagy Modulation. <i>Nanomaterials</i> , 2020, 10, 1675.	4.1	27
50	Enhanced structural, optical, electrical properties and antibacterial activity of PEO/CMC doped ZnO nanorods for energy storage and food packaging applications. <i>Journal of Polymer Research</i> , 2022, 29, 1.	2.4	27
51	Morphological Changes in Articular Cartilage Due to Static Compression: Polarized Light Microscopy Study. <i>Connective Tissue Research</i> , 2007, 48, 76-84.	2.3	24
52	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.	3.0	23
53	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.	2.2	21
54	Reduced graphene oxide mitigates cadmium-induced cytotoxicity and oxidative stress in HepG2 cells. <i>Food and Chemical Toxicology</i> , 2020, 143, 111515.	3.6	21

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55	Barium Titanate (BaTiO <sub>3</sub> ) Nanoparticles Exert Cytotoxicity through Oxidative Stress in Human Lung Carcinoma (A549) Cells. <i>Nanomaterials</i> , 2020, 10, 2309.	4.1	20
56	Challenges facing nanotoxicology and nanomedicine due to cellular diversity. <i>Clinica Chimica Acta</i> , 2018, 487, 186-196.	1.1	17
57	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.	2.4	17
58	High Performance of Carbon Monoxide Gas Sensor Based on a Novel PEDOT:PSS/PPA Nanocomposite. <i>ACS Omega</i> , 2022, 7, 22492-22499.	3.5	17
59	Multifunctional imaging probe based on gadofulleride nanoplatform. <i>Nanoscale</i> , 2012, 4, 3669.	5.6	16
60	Multifunctional gadofulleride nanoprobe for magnetic resonance imaging/fluorescent dual modality molecular imaging and free radical scavenging. <i>Carbon</i> , 2013, 65, 175-180.	10.3	16
61	Green and chemical synthesis of CuO nanoparticles: A comparative study for several in vitro bioactivities and in vivo toxicity in zebrafish embryos. <i>Journal of King Saud University - Science</i> , 2022, 34, 102092.	3.5	16
62	Therapeutic targets in the selective killing of cancer cells by nanomaterials. <i>Clinica Chimica Acta</i> , 2017, 469, 53-62.	1.1	14
63	Toxicity Mechanism of Gadolinium Oxide Nanoparticles and Gadolinium Ions in Human Breast Cancer Cells. <i>Current Drug Metabolism</i> , 2019, 20, 907-917.	1.2	14
64	One-Pot Synthesis of SnO <sub>2</sub> -rGO Nanocomposite for Enhanced Photocatalytic and Anticancer Activity. <i>Polymers</i> , 2022, 14, 2036.	4.5	13
65	Making On-line Science Course Materials Easily Translatable and Accessible Worldwide: Challenges and Solutions. <i>Journal of Science Education and Technology</i> , 2012, 21, 1-10.	3.9	12
66	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.	4.0	11
67	Effects of Cholesterol Feeding Periods on Blood Haematology and Biochemistry of Rabbits. <i>International Journal of Biological Chemistry</i> , 2008, 2, 49-53.	0.3	11
68	Citrus limetta Risso peel mediated green synthesis of gold nanoparticles and its antioxidant and catalytic activity. <i>Journal of King Saud University - Science</i> , 2022, 34, 102235.	3.5	11
69	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.	5.3	9
70	Measuring Students' Beliefs about Physics in Saudi Arabia. , 2009, , .		8
71	Comparative cytotoxicity of dolomite nanoparticles in human larynx HEp2 and liver HepG2 cells. <i>Journal of Applied Toxicology</i> , 2015, 35, 640-650.	2.8	8
72	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.	4.0	8

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73	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.	3.8	8
74	In vitro antidiabetic and anti-inflammatory effects of Fe-doped CuO-rice husk silica (Fe-CuO-SiO <sub>2</sub> ) nanocomposites and their enhanced innate immunity in zebrafish. <i>Journal of King Saud University - Science</i> , 2022, 34, 102121.	3.5	8
75	Elucidation of the effects of a high fat diet on trace elements in rabbit tissues using atomic absorption spectroscopy. <i>Lipids in Health and Disease</i> , 2010, 9, 2.	3.0	6
76	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.	3.7	6
77	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.	2.8	5
78	Crosslinked Coating Improves the Signal-to-Noise Ratio of Iron Oxide Nanoparticles in Magnetic Particle Imaging (MPI). <i>ChemNanoMat</i> , 2020, 6, 755-758.	2.8	5
79	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.	3.5	5
80	Evaluation of Electrical Conductivity of Hemoglobin and Oxidative Stress in High Fat Diet Rabbits. <i>Journal of Applied Sciences</i> , 2009, 9, 2185-2189.	0.3	2
81	Green synthesized chitosan modified platinum-doped silver nanocomposite: An investigation for biomedical and environmental applications. <i>Journal of King Saud University - Science</i> , 2022, 34, 102220.	3.5	2
82	Histology and radiography studies of effects of <i>Lepidium sativum</i> seeds on bone healing in male albino rats. <i>Journal of King Saud University - Science</i> , 2022, 34, 102062.	3.5	0