# 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 | Facile green synthesis of ZnO-RGO nanocomposites with enhanced anticancer efficacy. Methods, 2022, 199, 28-36. | 3.8 | 63 |
| 2 | Enhanced Anticancer Performance of Eco-Friendly-Prepared Mo-ZnO/RGO Nanocomposites: Role of Oxidative Stress and Apoptosis. ACS Omega, 2022, 7, 7103-7115. | 3.5 | 40 |
| 3 | Enhanced structural, optical, electrical properties and antibacterial activity of PEO/CMC doped ZnO nanorods for energy storage and food packaging applications. Journal of Polymer Research, 2022, 29, 1. | 2.4 | 27 |
| 4 | Histology and radiography studies of effects of Lepidium sativum seeds on bone healing in male albino rats. Journal of King Saud University - Science, 2022, 34, 102062. | 3.5 | 0 |
| 5 | Green and chemical synthesis of CuO nanoparticles: A comparative study for several in vitro bioactivities and in vivo toxicity in zebrafish embryos. Journal of King Saud University - Science, 2022, 34, 102092. | 3.5 | 16 |
| 6 | One-Pot Synthesis of SnO2-rGO Nanocomposite for Enhanced Photocatalytic and Anticancer Activity. Polymers, 2022, 14, 2036. | 4.5 | 13 |
| 7 | CeO2-Zn Nanocomposite Induced Superoxide, Autophagy and a Non-Apoptotic Mode of Cell Death in Human Umbilical-Vein-Derived Endothelial (HUVE) Cells. Toxics, 2022, 10, 250. | 3.7 | 6 |
| 8 | In vitro antidiabetic and anti-inflammatory effects of Fe-doped CuO-rice husk silica (Fe-CuO-SiO2) nanocomposites and their enhanced innate immunity in zebrafish. Journal of King Saud University - Science, 2022, 34, 102121. | 3.5 | 8 |
| 9 | High Performance of Carbon Monoxide Gas Sensor Based on a Novel PEDOT:PSS/PPA Nanocomposite. ACS Omega, 2022, 7, 22492-22499. | 3.5 | 17 |
| 10 | Combined effect of single-walled carbon nanotubes and cadmium on human lung cancer cells. Environmental Science and Pollution Research, 2022, 29, 87844-87857. | 5.3 | 9 |
| 11 | Citrus limetta Risso peel mediated green synthesis of gold nanoparticles and its antioxidant and catalytic activity. Journal of King Saud University - Science, 2022, 34, 102235. | 3.5 | 11 |
| 12 | Green synthesized chitosan modified platinum-doped silver nanocomposite: An investigation for biomedical and environmental applications. Journal of King Saud University - Science, 2022, 34, 102220. | 3.5 | 2 |
| 13 | 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 |
| 14 | Pt-Coated Au Nanoparticle Toxicity Is Preferentially Triggered Via Mitochondrial Nitric Oxide/Reactive Oxygen Species in Human Liver Cancer (HepG2) Cells. ACS Omega, 2021, 6, 15431-15441. | 3.5 | 5 |
| 15 | Facile Synthesis of Zn-Doped Bi<sub>2</sub>O<sub>3</sub> Nanoparticles and Their Selective Cytotoxicity toward Cancer Cells. ACS Omega, 2021, 6, 17353-17361. | 3.5 | 48 |
| 16 | Anti-Inflammatory CeO2 Nanoparticles Prevented Cytotoxicity Due to Exogenous Nitric Oxide Donors via Induction Rather Than Inhibition of Superoxide/Nitric Oxide in HUVE Cells. Molecules, 2021, 26, 5416. | 3.8 | 8 |
| 17 | A Novel Green Preparation of Ag/RGO Nanocomposites with Highly Effective Anticancer Performance. Polymers, 2021, 13, 3350. | 4.5 | 44 |
| 18 | Facile Synthesis, Characterization, Photocatalytic Activity, and Cytotoxicity of Ag-Doped MgO Nanoparticles. Nanomaterials, 2021, 11, 2915. | 4.1 | 36 |

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|---|---|---|---|
| 19 | Mitochondrial dysfunction, autophagy stimulation and non-apoptotic cell death caused by nitric oxide-inducing Pt-coated Au nanoparticle in human lung carcinoma cells. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129452. | 2.4 | 17 |
| 20 | Influence of silica nanoparticles on cadmiumâ€induced cytotoxicity, oxidative stress, and apoptosis in human liver HepG2 cells. Environmental Toxicology, 2020, 35, 599-608. | 4.0 | 11 |
| 21 | Barium Titanate (BaTiO3) Nanoparticles Exert Cytotoxicity through Oxidative Stress in Human Lung Carcinoma (A549) Cells. Nanomaterials, 2020, 10, 2309. | 4.1 | 20 |
| 22 | Gadolinium Oxide Nanoparticles Induce Toxicity in Human Endothelial HUVECs via Lipid Peroxidation, Mitochondrial Dysfunction and Autophagy Modulation. Nanomaterials, 2020, 10, 1675. | 4.1 | 27 |
| 23 | Alleviating effects of reduced graphene oxide against leadâ€induced cytotoxicity and oxidative stress in human alveolar epithelial (A549) cells. Journal of Applied Toxicology, 2020, 40, 1228-1238. | 2.8 | 5 |
| 24 | Reduced graphene oxide mitigates cadmium-induced cytotoxicity and oxidative stress in HepG2 cells. Food and Chemical Toxicology, 2020, 143, 111515. | 3.6 | 21 |
| 25 | Crosslinked Coating Improves the Signalâ€toâ€Noise Ratio of Iron Oxide Nanoparticles in Magnetic Particle Imaging (MPI). ChemNanoMat, 2020, 6, 755-758. | 2.8 | 5 |
| 26 | TiO2 nanoparticles potentiated the cytotoxicity, oxidative stress and apoptosis response of cadmium in two different human cells. Environmental Science and Pollution Research, 2020, 27, 10425-10435. | 5.3 | 29 |
| 27 | Co-Exposure to SiO2 Nanoparticles and Arsenic Induced Augmentation of Oxidative Stress and Mitochondria-Dependent Apoptosis in Human Cells. International Journal of Environmental Research and Public Health, 2019, 16, 3199. | 2.6 | 36 |
| 28 | Preventive effect of TiO2 nanoparticles on heavy metal Pb-induced toxicity in human lung epithelial (A549) cells. Toxicology in Vitro, 2019, 57, 18-27. | 2.4 | 53 |
| 29 | Evaluation of the Cytotoxicity and Oxidative Stress Response of CeO2-RGO Nanocomposites in Human Lung Epithelial A549 Cells. Nanomaterials, 2019, 9, 1709. | 4.1 | 28 |
| 30 | Different cytotoxic and apoptotic responses of MCF-7 and HT1080 cells to MnO2 nanoparticles are based on similar mode of action. Toxicology, 2019, 411, 71-80. | 4.2 | 36 |
| 31 | 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 |
| 32 | Toxicity Mechanism of Gadolinium Oxide Nanoparticles and Gadolinium Ions in Human Breast Cancer Cells. Current Drug Metabolism, 2019, 20, 907-917. | 1.2 | 14 |
| 33 | Copper doping enhanced the oxidative stressâ€"mediated cytotoxicity of TiO<sub>2</sub> nanoparticles in A549 cells. Human and Experimental Toxicology, 2018, 37, 496-507. | 2.2 | 21 |
| 34 | Challenges facing nanotoxicology and nanomedicine due to cellular diversity. Clinica Chimica Acta, 2018, 487, 186-196. | 1.1 | 17 |
| 35 | MgO nanoparticles cytotoxicity caused primarily by GSH depletion in human lung epithelial cells. Journal of Trace Elements in Medicine and Biology, 2018, 50, 283-290. | 3.0 | 23 |
| 36 | Oxidative stress mediated cytotoxicity of tin (IV) oxide (SnO2) nanoparticles in human breast cancer (MCF-7) cells. Colloids and Surfaces B: Biointerfaces, 2018, 172, 152-160. | 5.0 | 39 |

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|---|---|---|---|
| 37 | 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 |
| 38 | Nanocubes of indium oxide induce cytotoxicity and apoptosis through oxidative stress in human lung epithelial cells. Colloids and Surfaces B: Biointerfaces, 2017, 156, 157-164. | 5.0 | 30 |
| 39 | Therapeutic targets in the selective killing of cancer cells by nanomaterials. Clinica Chimica Acta, 2017, 469, 53-62. | 1.1 | 14 |
| 40 | Nanotoxicity of cobalt induced by oxidant generation and glutathione depletion in MCF-7 cells. Toxicology in Vitro, 2017, 40, 94-101. | 2.4 | 32 |
| 41 | Ag-doping regulates the cytotoxicity of TiO2 nanoparticles via oxidative stress in human cancer cells. Scientific Reports, 2017, 7, 17662. | 3.3 | 127 |
| 42 | 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 |
| 43 | Cobalt iron oxide nanoparticles induce cytotoxicity and regulate the apoptotic genes through ROS in human liver cells (HepG2). Colloids and Surfaces B: Biointerfaces, 2016, 148, 665-673. | 5.0 | 56 |
| 44 | 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 |
| 45 | Differential cytotoxicity of copper ferrite nanoparticles in different human cells. Journal of Applied Toxicology, 2016, 36, 1284-1293. | 2.8 | 47 |
| 46 | Copper ferrite nanoparticle-induced cytotoxicity and oxidative stress in human breast cancer MCF-7 cells. Colloids and Surfaces B: Biointerfaces, 2016, 142, 46-54. | 5.0 | 66 |
| 47 | Cytotoxic response of platinumâ€coated gold nanorods in human breast cancer cells at very low exposure levels. Environmental Toxicology, 2016, 31, 1344-1356. | 4.0 | 8 |
| 48 | Comparative cytotoxicity of dolomite nanoparticles in human larynx HEp2 and liver HepG2 cells. Journal of Applied Toxicology, 2015, 35, 640-650. | 2.8 | 8 |
| 49 | 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 |
| 50 | Comparative cytotoxic response of nickel ferrite nanoparticles in human liver HepG2 and breast MFC-7 cancer cells. Chemosphere, 2015, 135, 278-288. | 8.2 | 79 |
| 51 | Selective cancer-killing ability of metal-based nanoparticles: implications for cancer therapy. Archives of Toxicology, 2015, 89, 1895-1907. | 4.2 | 45 |
| 52 | Antioxidative and cytoprotective response elicited by molybdenum nanoparticles in human cells. Journal of Colloid and Interface Science, 2015, 457, 370-377. | 9.4 | 45 |
| 53 | Glutathione replenishing potential of CeO 2 nanoparticles in human breast and fibrosarcoma cells. Journal of Colloid and Interface Science, 2015, 453, 21-27. | 9.4 | 52 |
| 54 | Zinc ferrite nanoparticle-induced cytotoxicity and oxidative stress in different human cells. Cell and Bioscience, 2015, 5, 55. | 4.8 | 57 |

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| 55 | Assessment of the lung toxicity of copper oxide nanoparticles: current status. Nanomedicine, 2015, 10, 2365-2377. | 3.3 | 91 |
| 56 | Molybdenum nanoparticles-induced cytotoxicity, oxidative stress, G2/M arrest, and DNA damage in mouse skin fibroblast cells (L929). Colloids and Surfaces B: Biointerfaces, 2015, 125, 73-81. | 5.0 | 55 |
| 57 | Concentrationâ€dependent induction of reactive oxygen species, cell cycle arrest and apoptosis in human liver cells after nickel nanoparticles exposure. Environmental Toxicology, 2015, 30, 137-148. | 4.0 | 71 |
| 58 | Nickel nanoparticle-induced dose-dependent cyto-genotoxicity in human breast carcinoma MCF-7 cells. OncoTargets and Therapy, 2014, 7, 269. | 2.0 | 44 |
| 59 | Synthesis, Characterization, and Antimicrobial Activity of Copper Oxide Nanoparticles. Journal of Nanomaterials, 2014, 2014, 1-4. | 2.7 | 330 |
| 60 | Targeted anticancer therapy: Overexpressed receptors and nanotechnology. Clinica Chimica Acta, 2014, 436, 78-92. | 1.1 | 184 |
| 61 | Comparative effectiveness of NiCl2, Ni- and NiO-NPs in controlling oral bacterial growth and biofilm formation on oral surfaces. Archives of Oral Biology, 2013, 58, 1804-1811. | 1.8 | 38 |
| 62 | Multifunctional gadofulleride nanoprobe for magnetic resonance imaging/fluorescent dual modality molecular imaging and free radical scavenging. Carbon, 2013, 65, 175-180. | 10.3 | 16 |
| 63 | 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 |
| 64 | Selective killing of cancer cells by iron oxide nanoparticles mediated through reactive oxygen species via p53 pathway. Journal of Nanoparticle Research, 2013, 15, 1. | 1.9 | 55 |
| 65 | Copper Oxide Nanoparticles Induced Mitochondria Mediated Apoptosis in Human Hepatocarcinoma Cells. PLoS ONE, 2013, 8, e69534. | 2.5 | 285 |
| 66 | Induction of oxidative stress, DNA damage, and apoptosis in a malignant human skin melanoma cell line after exposure to zinc oxide nanoparticles. International Journal of Nanomedicine, 2013, 8, 983. | 6.7 | 62 |
| 67 | 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 |
| 68 | Multifunctional imaging probe based on gadofulleride nanoplatform. Nanoscale, 2012, 4, 3669. | 5.6 | 16 |
| 69 | Making On-line Science Course Materials Easily Translatable and Accessible Worldwide: Challenges and Solutions. Journal of Science Education and Technology, 2012, 21, 1-10. | 3.9 | 12 |
| 70 | Genotoxic potential of copper oxide nanoparticles in human lung epithelial cells. Biochemical and Biophysical Research Communications, 2010, 396, 578-583. | 2.1 | 321 |
| 71 | Elucidation of the effects of a high fat diet on trace elements in rabbit tissues using atomic absorption spectroscopy. Lipids in Health and Disease, 2010, 9, 2. | 3.0 | 6 |
| 72 | Measuring Studentsâ€™ Beliefs about Physics in Saudi Arabia. , 2009, , . | | 8 |

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|---|---|---|---|
| 73 | Evaluation of Electrical Conductivity of Hemoglobin and Oxidative Stress in High Fat Diet Rabbits. Journal of Applied Sciences, 2009, 9, 2185-2189. | 0.3 | 2 |
| 74 | Molecular and morphological adaptations in compressed articular cartilage by polarized light microscopy and Fourier-transform infrared imaging. Journal of Structural Biology, 2008, 164, 88-95. | 2.8 | 34 |
| 75 | Effects of Cholesterol Feeding Periods on Blood Haematology and Biochemistry of Rabbits. International Journal of Biological Chemistry, 2008, 2, 49-53. | 0.3 | 11 |
| 76 | Morphological Changes in Articular Cartilage Due to Static Compression: Polarized Light Microscopy Study. Connective Tissue Research, 2007, 48, 76-84. | 2.3 | 24 |
| 77 | Modifications of orientational dependence of microscopic magnetic resonance imaging T2 anisotropy in compressed articular cartilage. Journal of Magnetic Resonance Imaging, 2005, 22, 665-673. | 3.4 | 33 |
| 78 | 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 |
| 79 | The structural adaptations in compressed articular cartilage by microscopic MRI (Î¼MRI) T2 anisotropy. Osteoarthritis and Cartilage, 2004, 12, 887-894. | 1.3 | 59 |
| 80 | 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 |
| 81 | Characteristics of topographical heterogeneity of articular cartilage over the joint surface of a humeral head. Osteoarthritis and Cartilage, 2002, 10, 370-380. | 1.3 | 52 |
| 82 | Orientational dependence ofT2 relaxation in articular cartilage: A microscopic MRI (?MRI) study. Magnetic Resonance in Medicine, 2002, 48, 460-469. | 3.0 | 202 |