Abdulaziz A Al-Khedhairy

List of Publications by Year
in descending order

193 papers	8,000 citations	47 h-index	80 g-index
		47006	62596
197 all docs	197 docs citations	197 times ranked	11178 citing authors

#	Article	IF	Citations
1	Aloe vera extract functionalized zinc oxide nanoparticles as nanoantibiotics against multi-drug resistant clinical bacterial isolates. Journal of Colloid and Interface Science, 2016, 472, 145-156.	9.4	326
2	Copper Oxide Nanoparticles Induced Mitochondria Mediated Apoptosis in Human Hepatocarcinoma Cells. PLoS ONE, 2013, 8, e69534.	2.5	285
3	Oxidative stress mediated apoptosis induced by nickel ferrite nanoparticles in cultured A549 cells. Toxicology, 2011, 283, 101-108.	4.2	279
4	Reactive Oxygen Species Mediated Bacterial Biofilm Inhibition via Zinc Oxide Nanoparticles and Their Statistical Determination. PLoS ONE, 2014, 9, e111289.	2.5	269
5	Phytotoxic hazards of NiO-nanoparticles in tomato: A study on mechanism of cell death. Journal of Hazardous Materials, 2013, 250-251, 318-332.	12.4	259
6	ZnO nanoparticles induced oxidative stress and apoptosis in HepG2 and MCF-7 cancer cells and their antibacterial activity. Colloids and Surfaces B: Biointerfaces, 2014, 117, 267-276.	5.0	254
7	Titanium dioxide nanoparticles induced cytotoxicity, oxidative stress and DNA damage in human amnion epithelial (WISH) cells. Toxicology in Vitro, 2012, 26, 351-361.	2.4	220
8	Production of antimicrobial silver nanoparticles in water extracts of the fungus Amylomyces rouxii strain KSU-09. Bioresource Technology, 2010, 101, 8772-8776.	9.6	186
9	Apoptosis induction by silica nanoparticles mediated through reactive oxygen species in human liver cell line HepG2. Toxicology and Applied Pharmacology, 2012, 259, 160-168.	2.8	183
10	Anticancer Potential of Green Synthesized Silver Nanoparticles Using Extract of Nepeta deflersiana against Human Cervical Cancer Cells (HeLA). Bioinorganic Chemistry and Applications, 2018, 2018, 1-12.	4.1	178
11	Countering drug resistance, infectious diseases, and sepsis using metal and metal oxides nanoparticles: Current status. Colloids and Surfaces B: Biointerfaces, 2016, 146, 70-83.	5.0	177
12	Microwave Accelerated Green Synthesis of Stable Silver Nanoparticles with Eucalyptus globulus Leaf Extract and Their Antibacterial and Antibiofilm Activity on Clinical Isolates. PLoS ONE, 2015, 10, e0131178.	2.5	174
13	Nickel oxide nanoparticles induce cytotoxicity, oxidative stress and apoptosis in cultured human cells that is abrogated by the dietary antioxidant curcumin. Food and Chemical Toxicology, 2012, 50, 641-647.	3.6	140
14	T-2 mycotoxin: toxicological effects and decontamination strategies. Oncotarget, 2017, 8, 33933-33952.	1.8	136
15	Bisphenol A Disrupts Steroidogenesis in Human H295R Cells. Toxicological Sciences, 2011, 121, 320-327.	3.1	114
16	Effects of Prochloraz or Propylthiouracil on the Cross-Talk between the HPG, HPA, and HPT Axes in Zebrafish. Environmental Science & Technology, 2011, 45, 769-775.	10.0	113
17	Synthesis of stable cadmium sulfide nanoparticles using surfactin produced by Bacillus amyloliquifaciens strain KSU-109. Colloids and Surfaces B: Biointerfaces, 2011, 85, 207-213.	5.0	111
18	Mitochondrial and Chromosomal Damage Induced by Oxidative Stress in Zn2+ Ions, ZnO-Bulk and ZnO-NPs treated Allium cepa roots. Scientific Reports, 2017, 7, 40685.	3.3	106

#	Article	IF	Citations
19	Protective potential of trans-resveratrol against 4-hydroxynonenal induced damage in PC12 cells. Toxicology in Vitro, 2010, 24, 1592-1598.	2.4	104
20	Biomimetic Synthesis of Selenium Nanospheres by Bacterial Strain JS-11 and Its Role as a Biosensor for Nanotoxicity Assessment: A Novel Se-Bioassay. PLoS ONE, 2013, 8, e57404.	2.5	88
21	ZnO Nanoparticles Induce Oxidative Stress in Cloudman S91 Melanoma Cancer Cells. Journal of Biomedical Nanotechnology, 2013, 9, 441-449.	1.1	86
22	ZnO Nanoparticles Induces Cell Death in Malignant Human T98G Gliomas, KB and Non-Malignant HEK Cells. Journal of Biomedical Nanotechnology, 2013, 9, 1181-1189.	1.1	85
23	Comparative in situ ROS mediated killing of bacteria with bulk analogue, Eucalyptus leaf extract (ELE)-capped and bare surface copper oxide nanoparticles. Materials Science and Engineering C, 2019, 100, 747-758.	7.3	77
24	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
25	ZnO and TiO2 nanoparticles as novel antimicrobial agents for oral hygiene: a review. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	70
26	Oxidative stress contributes to cobalt oxide nanoparticles-induced cytotoxicity and DNA damage in human hepatocarcinoma cells. International Journal of Nanomedicine, 2013, 8, 189.	6.7	66
27	Self-Styled ZnO Nanostructures Promotes the Cancer Cell Damage and Supresses the Epithelial Phenotype of Glioblastoma. Scientific Reports, 2016, 6, 19950.	3.3	66
28	Rotenone-induced oxidative stress and apoptosis in human liver HepG2 cells. Molecular and Cellular Biochemistry, 2013, 384, 59-69.	3.1	65
29	Statistical analysis of gold nanoparticle-induced oxidative stress and apoptosis in myoblast (C2C12) cells. Colloids and Surfaces B: Biointerfaces, 2014, 123, 664-672.	5.0	65
30	Mancozeb-induced genotoxicity and apoptosis in cultured human lymphocytes. Life Sciences, 2012, 90, 815-824.	4.3	62
31	Fabrication, growth mechanism and antibacterial activity of ZnO micro-spheres prepared via solution process. Biomass and Bioenergy, 2012, 39, 227-236.	5.7	62
32	Synthesis, characterization and toxicological evaluation of iron oxide nanoparticles in human lung alveolar epithelial cells. Colloids and Surfaces B: Biointerfaces, 2014, 122, 209-215.	5.0	60
33	Phorate-induced oxidative stress, DNA damage and transcriptional activation of p53 and caspase genes in male Wistar rats. Toxicology and Applied Pharmacology, 2012, 259, 54-65.	2.8	59
34	Biocidal effect of copper and zinc oxide nanoparticles on human oral microbiome and biofilm formation. Materials Letters, 2013, 97, 67-70.	2.6	59
35	Cold atmospheric plasma and silymarin nanoemulsion synergistically inhibits human melanoma tumorigenesis via targeting HGF/c-MET downstream pathway. Cell Communication and Signaling, 2019, 17, 52.	6.5	58
36	Antiâ€biofilm and antibacterial activities of zinc oxide nanoparticles against the oral opportunistic pathogens <scp>R</scp>othia dentocariosa and <scp>R</scp>othia mucilaginosa. European Journal of Oral Sciences, 2014, 122, 397-403.	1.5	56

#	Article	IF	Citations
37	Understanding the Role of Nanomaterials in Agriculture. , 2016, , 271-288.		56
38	Bio-functionalized CuO nanoparticles induced apoptotic activities in human breast carcinoma cells and toxicity against Aspergillus flavus: An in vitro approach. Process Biochemistry, 2020, 91, 387-397.	3.7	56
39	Hepatoprotective effects of vitamin E/selenium against malathion-induced injuries on the antioxidant status and apoptosis-related gene expression in rats. Journal of Toxicological Sciences, 2011, 36, 285-296.	1.5	55
40	Antibacterial properties of silver nanoparticles synthesized using Pulicaria glutinosa plant extract as a green bioreductant. International Journal of Nanomedicine, 2014, 9, 3551.	6.7	55
41	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
42	Cytotoxicity of Nigella Sativa Seed Oil and Extract Against Human Lung Cancer Cell Line. Asian Pacific Journal of Cancer Prevention, 2014, 15, 983-987.	1.2	55
43	Cobalt oxide nanoparticles aggravate DNA damage and cell death in eggplant via mitochondrial swelling and NO signaling pathway. Biological Research, 2016, 49, 20.	3.4	53
44	Butachlor induced dissipation of mitochondrial membrane potential, oxidative DNA damage and necrosis in human peripheral blood mononuclear cells. Toxicology, 2012, 302, 77-87.	4.2	52
45	Characterization of coal fly ash nanoparticles and induced oxidative DNA damage in human peripheral blood mononuclear cells. Science of the Total Environment, 2012, 437, 331-338.	8.0	52
46	Hematite iron oxide nanoparticles: apoptosis of myoblast cancer cells and their arithmetical assessment. RSC Advances, 2018, 8, 24750-24759.	3.6	52
47	Photocatalytic oxidation of acetaldehyde with ZnO-quantum dots. Chemical Engineering Journal, 2013, 226, 154-160.	12.7	50
48	Antibacterial studies and statistical design set data of quasi zinc oxide nanostructures. RSC Advances, 2016, 6, 32328-32339.	3.6	50
49	Histologic and apoptotic changes induced by titanium dioxide nanoparticles in the livers of rats. International Journal of Nanomedicine, 2013, 8, 3937.	6.7	49
50	Effective inhibition of bacterial respiration and growth by CuO microspheres composed of thin nanosheets. Colloids and Surfaces B: Biointerfaces, 2013, 111, 211-217.	5.0	48
51	Zinc ferrite nanoparticles activate IL-1b, NFKB1, CCL21 and NOS2 signaling to induce mitochondrial dependent intrinsic apoptotic pathway in WISH cells. Toxicology and Applied Pharmacology, 2013, 273, 289-297.	2.8	47
52	Differential cytotoxicity of copper ferrite nanoparticles in different human cells. Journal of Applied Toxicology, 2016, 36, 1284-1293.	2.8	47
53	In Vitro Cytotoxic Activity of Seed Oil of Fenugreek Against Various Cancer Cell Lines. Asian Pacific Journal of Cancer Prevention, 2013, 14, 1829-1832.	1.2	46
54	Assessment of methyl thiophanateâ€“Cu (II) induced DNA damage in human lymphocytes. Toxicology in Vitro, 2009, 23, 848-854.	2.4	45

#	Article	IF	Citations
55	Zinc oxide quantum dots: multifunctional candidates for arresting C2C12 cancer cells and their role towards caspase 3 and 7 genes. RSC Advances, 2016, 6, 26111-26120.	3.6	43
56	Isolation and characterization of butachlor-catabolizing bacterial strain Stenotrophomonas acidaminiphila JS-1 from soil and assessment of its biodegradation potential. Letters in Applied Microbiology, 2010, 51, no-no.	2.2	41
57	Protective effect ofLepidium sativumseed extract against hydrogen peroxide-induced cytotoxicity and oxidative stress in human liver cells (HepG2). Pharmaceutical Biology, 2016, 54, 314-321.	2.9	40
58	Toxicogenomic Mechanisms of 6-HO-BDE-47, 6-MeO-BDE-47, and BDE-47 in E. coli. Environmental Science & Technology, 2012, 46, 1185-1191.	10.0	39
59	Synthesis of thermally stable monodispersed Au@SnO2 coreâ€“shell structure nanoparticles by a sonochemical technique for detection and degradation of acetaldehyde. Analytical Methods, 2013, 5, 1456.	2.7	39
60	Zinc oxide and titanium dioxide nanoparticles induce oxidative stress, inhibit growth, and attenuate biofilm formation activity of Streptococcus mitis. Journal of Biological Inorganic Chemistry, 2016, 21, 295-303.	2.6	39
61	Anticancer Activity of Petroselinum sativum Seed Extracts on MCF-7 Human Breast Cancer Cells. Asian Pacific Journal of Cancer Prevention, 2013, 14, 5719-5723.	1.2	39
62	Cytotoxicity Assessments of Portulaca oleracea and Petroselinum sativum Seed Extracts on Human Hepatocellular Carcinoma Cells (HepG2). Asian Pacific Journal of Cancer Prevention, 2014, 15, 6633-6638.	1.2	39
63	Salubrious effects of dexrazoxane against teniposide-induced DNA damage and programmed cell death in murine marrow cells. Mutagenesis, 2011, 26, 533-543.	2.6	38
64	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
65	Myristica fragrans bio-active ester functionalized ZnO nanoparticles exhibit antibacterial and antibiofilm activities in clinical isolates. Journal of Microbiological Methods, 2019, 166, 105716.	1.6	37
66	Multiplex bioimaging of piRNA molecular pathway-regulated theragnostic effects in a single breast cancer cell using a piRNA molecular beacon. Biomaterials, 2016, 101, 143-155.	11.4	36
67	Cytotoxic and necrotic responses in human amniotic epithelial (WISH) cells exposed to organophosphate insecticide phorate. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2012, 744, 125-134.	1.7	35
68	Rhamnolipids functionalized AgNPs-induced oxidative stress and modulation of toxicity pathway genes in cultured MCF-7 cells. Colloids and Surfaces B: Biointerfaces, 2015, 132, 290-298.	5.0	33
69	Further Consideration of the Phylogeny of Some â€œTraditionalâ€•Heterotrichs (Protista, Ciliophora) of Uncertain Affinities, Based on New Sequences of the Small Subunit rRNA Gene. Journal of Eukaryotic Microbiology, 2009, 56, 244-250.	1.7	32
70	Phylogeny of six oligohymenophoreans (Protozoa, Ciliophora) inferred from small subunit rRNA gene sequences. Zoologica Scripta, 2009, 38, 323-331.	1.7	32
71	Hazards of low dose flame-retardants (BDE-47 and BDE-32): Influence on transcriptome regulation and cell death in human liver cells. Journal of Hazardous Materials, 2016, 308, 37-49.	12.4	32
72	Phylogenetic analyses suggest thatPsammomitra(Ciliophora, Urostylida) should represent an urostylid family, based on small subunit rRNA and alpha-tubulin gene sequence information. Zoological Journal of the Linnean Society, 2009, 157, 227-236.	2.3	31

#	Article	IF	Citations
73	Preferential binding of insecticide phorate with sub-domain IIA of human serum albumin induces protein damage and its toxicological significance. Food and Chemical Toxicology, 2011, 49, 1787-1795.	3.6	30
74	p-Si/DNA photoconductive diode for optical sensor applications. Synthetic Metals, 2011, 161, 2011-2016.	3.9	30
75	Simultaneous Imaging of Two Different Cancer Biomarkers Using Aptamer-Conjugated Quantum Dots. Sensors, 2015, 15, 8595-8604.	3.8	30
76	Methyl thiophanate as a DNA minor groove binder produces MTâ€“Cu(II)â€“DNA ternary complex preferably with AT rich region for initiation of DNA damage. International Journal of Biological Macromolecules, 2010, 47, 68-75.	7.5	29
77	Fungicide methyl thiophanate binding at sub-domain IIA of human serum albumin triggers conformational change and protein damage. International Journal of Biological Macromolecules, 2010, 47, 60-67.	7.5	29
78	Mosquito Vectors Survey in the AL-Ahsaa District of Eastern Saudi Arabia. Journal of Insect Science, 2011, 11, 1-11.	1.5	29
79	Biodegradation of isoproturon using a novel Pseudomonas aeruginosa strain JS-11 as a multi-functional bioinoculant of environmental significance. Journal of Hazardous Materials, 2011, 185, 938-944.	12.4	29
80	Dual optical biosensors for imaging microRNA-1 during myogenesis. Biomaterials, 2012, 33, 6430-6437.	11.4	29
81	Long-term changes in distributions of dioxin-like and estrogenic compounds in sediments of Lake Sihwa, Korea: Revisited mass balance. Chemosphere, 2017, 181, 767-777.	8.2	29
82	Quantum Dot-Based Molecular Beacon to Monitor Intracellular MicroRNAs. Sensors, 2015, 15, 12872-12883.	3.8	28
83	Genotoxicity of ferric oxide nanoparticles in Raphanus sativus : Deciphering the role of signaling factors, oxidative stress and cell death. Journal of Environmental Sciences, 2016, 47, 49-62.	6.1	28
84	Corn Silk (Zea mays L.) Induced Apoptosis in Human Breast Cancer (MCF-7) Cells via the ROS-Mediated Mitochondrial Pathway. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-9.	4.0	28
85	Silver Nanoparticles: An Instantaneous Solution for Anticancer Activity against Human Liver (HepG2) and Breast (MCF-7) Cancer Cells. Metals, 2022, 12, 148.	2.3	28
86	Hepatoprotective potential of Lavandula coronopifolia extracts against ethanol induced oxidative stress-mediated cytotoxicity in HepG2 cells. Toxicology and Industrial Health, 2015, 31, 727-737.	1.4	27
87	Organophosphorus flame retardant (tricresyl phosphate) trigger apoptosis in HepG2 cells: Transcriptomic evidence on activation of human cancer pathways. Chemosphere, 2019, 237, 124519.	8.2	27
88	Biotransformation of dehydroepiandrosterone with Macrophomina phaseolina and Î²-glucuronidase inhibitory activity of transformed products. Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, 27, 348-355.	5.2	26
89	Comparison on the molecular response profiles between nano zinc oxide (ZnO) particles and free zinc ion using a genome-wide toxicogenomics approach. Environmental Science and Pollution Research, 2015, 22, 17434-17442.	5.3	26
90	Photocatalytic TMO-NMs adsorbent: Temperature-Time dependent Safranine degradation, sorption study validated under optimized effective equilibrium models parameter with standardized statistical analysis. Scientific Reports, 2017, 7, 42509.	3.3	26

#	Article	IF	Citations
91	p53, MAPKAPK-2 and caspases regulate nickel oxide nanoparticles induce cell death and cytogenetic anomalies in rats. International Journal of Biological Macromolecules, 2017, 105, 228-237.	7.5	26
92	Cold Atmospheric Plasma and Gold Quantum Dots Exert Dual Cytotoxicity Mediated by the Cell Receptor-Activated Apoptotic Pathway in Glioblastoma Cells. Cancers, 2020, 12, 457.	3.7	26
93	Pendimethalin induces oxidative stress, DNA damage, and mitochondrial dysfunction to trigger apoptosis in human lymphocytes and rat bone-marrow cells. Histochemistry and Cell Biology, 2018, 149, 127-141.	1.7	25
94	Ribosylation of bovine serum albumin induces ROS accumulation and cell death in cancer line (MCF-7). European Biophysics Journal, 2013, 42, 811-818.	2.2	24
95	Cytotoxicity and cell death induced by engineered nanostructures (quantum dots and nanoparticles) in human cell lines. Journal of Biological Inorganic Chemistry, 2020, 25, 325-338.	2.6	24
96	Microwave assisted hydrothermal synthesis of mesoporous SnO2 nanoparticles for ethanol sensing and degradation. Journal of Materials Science: Materials in Electronics, 2013, 24, 2082-2090.	2.2	23
97	Apolipoprotein E polymorphism in Saudis. Molecular Biology Reports, 2005, 31, 257-260.	2.3	22
98	Treatment of oral hyperpigmentation and gummy smile using lasers and role of plasma as a novel treatment technique in dentistry: An introductory review. Oncotarget, 2017, 8, 20496-20509.	1.8	22
99	Nickel Oxide Nanoparticles Induced Transcriptomic Alterations in HEPG2 Cells. Advances in Experimental Medicine and Biology, 2018, 1048, 163-174.	1.6	22
100	Green Synthesis of Zinc Oxide Nanoparticles Using Alstonia Macrophylla Leaf Extract and Their In-Vitro Anticancer Activity. Science of Advanced Materials, 2018, 10, 349-355.	0.7	22
101	Copper doping enhanced the oxidative stressâ€“mediated cytotoxicity of TiO₂ nanoparticles in A549 cells. Human and Experimental Toxicology, 2018, 37, 496-507.	2.2	21
102	A reverse complementary multimodal imaging system to visualize microRNA9-involved neurogenesis using peptide targeting transferrin receptor-conjugated magnetic fluorescence nanoparticles. Biomaterials, 2012, 33, 6456-6467.	11.4	20
103	Utilization of photocatalytic ZnO nanoparticles for deactivation of safranine dye and their applications for statistical analysis. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 69, 101-108.	2.7	20
104	Multimodal imaging probe for targeting cancer cells using uMUC-1 aptamer. Colloids and Surfaces B: Biointerfaces, 2015, 136, 134-140.	5.0	20
105	Titanium dioxide nanoparticles preferentially bind in subdomains IB, IIA of HSA and minor groove of DNA. Journal of Biomolecular Structure and Dynamics, 2018, 36, 2530-2542.	3.5	20
106	Cytotoxicity and genotoxicity of methomyl, carbaryl, metalaxyl, and pendimethalin in human umbilical vein endothelial cells. Journal of Applied Toxicology, 2021, 41, 832-846.	2.8	20
107	Anticancer activity of chloroform extract and sub-fractions of nepeta deflersiana on human breast and lung cancer cells: an in vitro cytotoxicity assessment. Pharmacognosy Magazine, 2015, 11, 598.	0.6	20
108	Novel All Trans-Retinoic Acid Derivatives: Cytotoxicity, Inhibition of Cell Cycle Progression and Induction of Apoptosis in Human Cancer Cell Lines. Molecules, 2015, 20, 8181-8197.	3.8	19

#	Article	IF	Citations
109	Zinc oxide quantum dots: a potential candidate to detain liver cancer cells. Bioprocess and Biosystems Engineering, 2015, 38, 155-163.	3.4	19
110	Nigella sativa seed oil suppresses cell proliferation and induces ROS dependent mitochondrial apoptosis through p53 pathway in hepatocellular carcinoma cells. South African Journal of Botany, 2017, 112, 70-78.	2.5	19
111	Phylogenetic investigation on five genera of tintinnid ciliates (Ciliophora, Choreotrichia), based on the small subunit ribosomal RNA gene sequences. Progress in Natural Science: Materials International, 2009, 19, 1097-1101.	4.4	18
112	Short-term exposure of 4-hydroxynonenal induces mitochondria-mediated apoptosis in PC12 cells. Human and Experimental Toxicology, 2012, 31, 336-345.	2.2	18
113	Efficient and reproducible in vitro regeneration of Solanum lycopersicum and assessment genetic uniformity using flow cytometry and SPAR methods. Saudi Journal of Biological Sciences, 2017, 24, 1430-1436.	3.8	17
114	High-throughput transcriptomics: An insight on the pathways affected in HepG2 cells exposed to nickel oxide nanoparticles. Chemosphere, 2020, 244, 125488.	8.2	17
115	Gold quantum dots impair the tumorigenic potential of glioma stem-like cells via β-catenin downregulation in vitro . International Journal of Nanomedicine, 2019, Volume 14, 1131-1148.	6.7	16
116	Tris(2-butoxyethyl) phosphate (TBEP): A flame retardant in solid waste display hepatotoxic and carcinogenic risks for humans. Chemosphere, 2022, 296, 133977.	8.2	16
117	In Vitro Cytotoxicity of Mesoporous SiO₂@Eu(OH)₃Core-Shell Nanospheres in MCF-7. Journal of Nanomaterials, 2016, 2016, 1-6.	2.7	15
118	In-Vitro dual inhibition of protein glycation, and oxidation by some Arabian plants. BMC Complementary and Alternative Medicine, 2016, 16, 276.	3.7	15
119	Reconsideration of the phylogenetic positions of three stichotrichous genera Holosticha, Anteholosticha and Pseudokeronopsis (Spirotrichea: Ciliophora) inferred from complete SSU rRNA gene sequences. Progress in Natural Science: Materials International, 2009, 19, 769-773.	4.4	14
120	Diversity of bacteria and polyketide synthase associated with marine sponge Haliclona sp.. Annals of Microbiology, 2014, 64, 199-207.	2.6	14
121	The influence of soil properties and geographical distance on the bacterial community compositions of paddy soils enriched on SMFC anodes. Journal of Soils and Sediments, 2018, 18, 517-525.	3.0	14
122	Tris(2-chloroethyl) Phosphate (TCEP) Elicits Hepatotoxicity by Activating Human Cancer Pathway Genes in HepG2 Cells. Toxics, 2020, 8, 109.	3.7	14
123	Hydrogen Adsorption Properties of Nano- and Microstructures of ZnO. Journal of Nanomaterials, 2013, 2013, 1-6.	2.7	13
124	Synthesis and characterization of some abundant nanoparticles, their antimicrobial and enzyme inhibition activity. Acta Microbiologica Et Immunologica Hungarica, 2017, 64, 203-216.	0.8	13
125	Oxidative Stress Mediated Cytotoxicity, Cell Cycle Arrest, and Apoptosis Induced by Rosa damascena in Human Cervical Cancer HeLa Cells. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-11.	4.0	13
126	Genotoxic fungicide methyl thiophanate as an oxidative stressor inducing 8-oxo-7,8-dihydro-2â€² -deoxyguanosine adducts in DNA and mutagenesis. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2009, 45, 40-45.	1.5	12

#	Article	IF	Citations
127	Effect of Trans-resveratrol on rotenone-induced cytotoxicity in human breast adenocarcinoma cells. Toxicology International, 2011, 18, 105.	0.1	12
128	Use of Î²-galactosidase (lacZ) gene Î±-complementation as a novel approach for assessment of titanium oxide nanoparticles induced mutagenesis. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2012, 747, 246-252.	1.7	12
129	Bioimaging of the microRNA-294 expression-dependent color change in cells by a dual fluorophore-based molecular beacon. Chemical Communications, 2015, 51, 2159-2161.	4.1	12
130	Rapid sensing response for phenol with CuO nanoparticles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 607, 125424.	4.7	12
131	Synthesis, optical properties and toxic potentiality of photoluminescent lanthanum oxide nanospheres. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 607, 125511.	4.7	12
132	Copper Oxide Nanoparticles Exhibit Cell Death Through Oxidative Stress Responses in Human Airway Epithelial Cells: a Mechanistic Study. Biological Trace Element Research, 2022, 200, 5042-5051.	3.5	12
133	Functionalization of anti-Brucella antibody on ZnO-NPs and their deposition on aluminum sheet towards developing a sensor for the detection of Brucella. Vacuum, 2017, 146, 592-598.	3.5	11
134	Evaluation of cytotoxic responses of raw and functionalized multi-walled carbon nanotubes in human breast cancer (MCF-7) cells. Vacuum, 2017, 146, 578-585.	3.5	11
135	Occurrence and bioaccumulation of persistent toxic substances in sediments and biota from intertidal zone of Abu Ali Island, Arabian Gulf. Marine Pollution Bulletin, 2019, 144, 243-252.	5.0	11
136	Peanut-shaped ZnO nanostructures: A driving force for enriched antibacterial activity and their statistical analysis. Ceramics International, 2020, 46, 307-316.	4.8	11
137	Single and Multi-metal Oxide Nanoparticles Induced Cytotoxicity and ROS Generation in Human Breast Cancer (MCF-7) Cells. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 4106-4116.	3.7	11
138	Anticancer efficacies of persicogenin and homoeriodictyol isolated from Rhus retinorrhoea. Process Biochemistry, 2020, 95, 186-196.	3.7	11
139	Organophosphorus Flame Retardant TDCPP Displays Genotoxic and Carcinogenic Risks in Human Liver Cells. Cells, 2022, 11, 195.	4.1	11
140	Microbially Synthesized Nanoparticles: Scope and Applications. , 2011, , 101-126.		10
141	Optical Analysis of Zinc Oxide Quantum Dots with Bovine Serum Albumin and Bovine Hemoglobin. Journal of Pharmaceutical Innovation, 2014, 9, 48-52.	2.4	10
142	Petroselinum sativum protects HepG2 cells from cytotoxicity and oxidative stress induced by hydrogen peroxide. Molecular Biology Reports, 2020, 47, 2771-2780.	2.3	10
143	Carbofuran cytotoxicity, DNA damage, oxidative stress, and cell death in human umbilical vein endothelial cells: Evidence of vascular toxicity. Journal of Applied Toxicology, 2021, 41, 847-860.	2.8	10
144	Hydrogen Storage Properties of Heterostructured Zinc Oxide Nanostructures. Journal of Nanoengineering and Nanomanufacturing, 2011, 1, 188-195.	0.3	10

#	Article	IF	Citations
145	Verbesina encelioides: cytotoxicity, cell cycle arrest, and oxidative DNA damage in human liver cancer (HepG2) cell line. BMC Complementary and Alternative Medicine, 2016, 16, 126.	3.7	9
146	MWCNTs functionalization and immobilization with anti-Brucella antibody; towards the development of a nanosensor. Vacuum, 2017, 146, 623-632.	3.5	9
147	Multiple evaluation of the potential toxic effects of sediments and biota collected from an oil-polluted area around Abu Ali Island, Saudi Arabia, Arabian Gulf. Ecotoxicology and Environmental Safety, 2019, 183, 109547.	6.0	9
148	Evolutionary relationship and species separation of four morphologically similar stichotrichous ciliates (Protozoa, Ciliophora). Progress in Natural Science: Materials International, 2009, 19, 581-586.	4.4	8
149	Comparative cytotoxicity of dolomite nanoparticles in human larynx HEp2 and liver HepG2 cells. Journal of Applied Toxicology, 2015, 35, 640-650.	2.8	8
150	Toxicity response of highly colloidal, bioactive, monodisperse SiO2@ Pr(OH)3 hollow microspheres. Colloids and Surfaces B: Biointerfaces, 2019, 182, 110390.	5.0	8
151	CoO Thin Nanosheets Exhibit Higher Antimicrobial Activity Against Tested Gram-positive Bacteria Than Gram-negative Bacteria. Korean Chemical Engineering Research, 2015, 53, 565-569.	0.2	8
152	Anti-cancer efficacy of Aloe vera capped hematite nanoparticles in human breast cancer (MCF-7) cells. Journal of Drug Delivery Science and Technology, 2020, 60, 102052.	3.0	8
153	Size-Dependent Cytotoxic and Molecular Study of the Use of Gold Nanoparticles against Liver Cancer Cells. Applied Sciences (Switzerland), 2022, 12, 901.	2.5	8
154	Bioimaging of transcriptional activity of microRNA124a during neurogenesis. Biotechnology Letters, 2015, 37, 2333-2340.	2.2	7
155	Metals and Metal Oxides: Important Nanomaterials With Antimicrobial Activity. , 2017, , 195-222.		7
156	Photocatalytic activity and statistical determination of ball-shaped zinc oxide NPs with methylene blue dye. Inorganic and Nano-Metal Chemistry, 2017, 47, 536-542.	1.6	7
157	Functional genomics assessment of narcotic and specific acting chemical pollutants using E.Âcoli. Environmental Pollution, 2018, 232, 146-153.	7.5	7
158	A validation study comparing the sensitivity and specificity of the new Dr. KSU H1N1 RT-PCR kit with real-time RT-PCR for diagnosing influenza A (H1N1). Annals of Saudi Medicine, 2011, 31, 351-355.	1.1	7
159	Association of dopamine DA-D₂ receptor in rotenone-induced cytotoxicity in PC12 cells. Toxicology and Industrial Health, 2010, 26, 533-542.	1.4	6
160	Protective potential of 17Î²-estradiol against co-exposure of 4-hydroxynonenal and 6-hydroxydopamine in PC12 cells. Human and Experimental Toxicology, 2011, 30, 860-869.	2.2	6
161	Dexrazoxane mitigates epirubicin-induced genotoxicity in mice bone marrow cells. Mutagenesis, 2016, 31, 137-145.	2.6	6
162	Strontium-Doped Nickel Oxide Nanoparticles: Synthesis, Characterization, and Cytotoxicity Study in Human Lung Cancer A549 Cells. Biological Trace Element Research, 2022, 200, 1598-1607.	3.5	6

#	Article	IF	Citations
163	Cytotoxic assessment of liver cancer cells (HepG2) with raw, functionalized multiwalled carbon nanotubes and their comparison with nanohydroxyapatite. Journal of King Saud University - Science, 2021, 33, 101444.	3.5	6
164	Statistical Analytical Determination of Miniature Zinc Oxide Nanoclusters for Photodegradation of Methylene Red Dye. Nanoscience and Nanotechnology Letters, 2017, 9, 1-7.	0.4	6
165	Zinc Oxide Nanoparticles: Mechanism(s) of Cell Death Induced in Human Epidermoid Larynx Cell Line (HEp-2). Nanoscience and Nanotechnology Letters, 2017, 9, 573-582.	0.4	6
166	Apolipoprotein E polymorphism as a predictor for cognitive decline and dementia in the Saudi general population over 65 years. Genetics and Molecular Biology, 2004, 27, 331-334.	1.3	6
167	Regulatory elements in the 5â€™region of 16SrRNA gene of Bacillus sp. strain SJ-101. Bioinformation, 2009, 3, 375-380.	0.5	6
168	<i>Portulaca oleracea</i> Linn seed extract ameliorates hydrogen peroxide-induced cell death in human liver cells by inhibiting reactive oxygen species generation and oxidative stress. Tropical Journal of Pharmaceutical Research, 2016, 15, 1643.	0.3	5
169	An improved method of DNA preparation for PCRâ€based detection of Brucella in raw camel milk samples from Riyadh region and its comparison with immunological methods. Journal of Food Safety, 2018, 38, e12381.	2.3	5
170	Protective effects of<scp>Nigella sativa</scp>extract against H₂O₂â€induced cell death through the inhibition of DNA damage and cell cycle arrest in human umbilical vein endothelial cells (HUVECs). Journal of Applied Toxicology, 2021, 41, 820-831.	2.8	5
171	Aloe vera-induced apoptotic cell death through ROS generation, cell cycle arrest, and DNA damage in human breast cancer cells. , 0, , .		5
172	Optical spectroscopy studies of the interaction between thiophanate methyl and human serum albumin for biosensor applications. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 79, 1285-1290.	3.9	4
173	Bioimaging of microRNA124aâ€independent neuronal differentiation of human G2 neural stem cells. FEBS Open Bio, 2015, 5, 647-655.	2.3	3
174	Preliminary study of spectral features of normal and malignant cell cultures. Laser Physics, 2016, 26, 045601.	1.2	3
175	Bacterial isolates exhibiting multidrug resistance, hemolytic activity, and high 16S <scp>rRNA</scp> gene similarity with wellâ€known pathogens found in camel milk samples of Riyadh region. Apmis, 2018, 126, 215-226.	2.0	3
176	Quantization of SnO2 dots: Apoptosis and intrinsic effect of quantum dots for myoblast cancer cells with caspase 3/7 genes. Ceramics International, 2020, 46, 6383-6395.	4.8	3
177	Effect of Praseodymium on the Characteristics of Nano-ZnO Towards Organophosphate as a Nano-Electrochemical Device. Journal of Nanoelectronics and Optoelectronics, 2016, 11, 6-11.	0.5	3
178	Cytotoxic and molecular assessment with copper and iron nanocomposite, act as a soft eradicator against cancer cells. Journal of King Saud University - Science, 2022, 34, 101908.	3.5	3
179	Cyto-Genotoxic and Transcriptomic Alterations in Human Liver Cells by Tris (2-Ethylhexyl) Phosphate (TEHP): A Putative Hepatocarcinogen. International Journal of Molecular Sciences, 2022, 23, 3998.	4.1	3
180	Neodymium oxide nanostructures and their cytotoxic evaluation in human cancer cells. Journal of Trace Elements in Medicine and Biology, 2022, 73, 127029.	3.0	3

#	Article	IF	Citations
181	A bioinformatics approach for in vivo imaging of endogenous MicroRNA targets during neurogenesis. Tissue Engineering and Regenerative Medicine, 2012, 9, 157-169.	3.7	2
182	Cytotoxic, genetic and statistical analytical evaluation of functionalized CNTs with C2C12 cells. Vacuum, 2018, 152, 348-357.	3.5	2
183	Neuroprotective Effects of Withania somnifera on 4-Hydroxynonenal Induced Cell Death in Human Neuroblastoma SH-SY5Y Cells Through ROS Inhibition and Apoptotic Mitochondrial Pathway. Neurochemical Research, 2021, 46, 171-182.	3.3	2
184	Cytotoxic and molecular assessment against breast (MCF-7) cancer cells with cobalt oxide nanoballs. Journal of King Saud University - Science, 2021, 33, 101467.	3.5	2
185	Role of Solvent System in Green Synthesis of Nanoparticles. , 2020, , 53-74.		2
186	Cytotoxicity and mitochondrial-mediated apoptosis induced by Fenugreek seed oil in human hepatocellular carcinoma cells via reactive oxygen species generation. Pharmacognosy Magazine, 2019, 15, 12.	0.6	2
187	Effects of Follicular Fluid on Developmental Competence and Gene Expression of in vitro Fertilized Sheep Embryos. Pakistan Journal of Zoology, 2018, 50, .	0.2	2
188	Clinical response of carboplatin-based chemotherapy and its association to genetic polymorphism in lung cancer patients from North India â€“ A clinical pharmacogenomics study. Journal of Cancer Research and Therapeutics, 2022, 18, 109-118.	0.9	2
189	Saudi University Policy: King Saud Response. Science, 2012, 335, 1040-1040.	12.6	1
190	Sperm DNA-mediated reduction of nonspecific fluorescence during cellular imaging with quantum dots. Chemical Communications, 2015, 51, 11584-11586.	4.1	1
191	Phytotoxic Assessment of Nickel Oxide (NiO) Nanoparticles in Radish. , 2018, , 269-284.		1
192	General and facile purification of dye-labeled oligonucleotides by pH-controlled extraction. BioTechniques, 2018, 64, 21-23.	1.8	0
193	Surface Engineering Techniques Associated with Stability, Biocompatibility, and Toxicity of Nanoparticles. , 2020, , 75-101.		0