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Gold nanoparticles of diameter 1.4 nm trigger necrosis by oxidative stress and mitochondrial damage

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641	Particle size affects the cellular response in macrophages. 2010 , 41, 650-7		117
640	The promotion of human malignant melanoma growth by mesoporous silica nanoparticles through decreased reactive oxygen species. 2010 , 31, 6142-53		93
639	Carbon black and titanium dioxide nanoparticles elicit distinct apoptotic pathways in bronchial epithelial cells. 2010 , 7, 10		170
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637	The role of surface functionality on acute cytotoxicity, ROS generation and DNA damage by cationic gold nanoparticles. <i>Small</i> , 2010 , 6, 2246-9	11	203
636	Shape-dependent cytotoxicity and proinflammatory response of poly(3,4-ethylenedioxythiophene) nanomaterials. <i>Small</i> , 2010 , 6, 872-9	11	63
635	Current studies into the genotoxic effects of nanomaterials. 2010 , 2010,		66
634	Nanomaterials as Emerging Environmental Threats. 2010 , 4, 151-160		
633	Photothermal release of single-stranded DNA from the surface of gold nanoparticles through controlled denaturing and Au-S bond breaking. 2010 , 4, 6395-403		117
632	Evaluation of cytotoxicity and radiation enhancement using 1.9 nm gold particles: potential application for cancer therapy. 2010 , 21, 295101		164
631	DNA binding and aggregation by carbon nanoparticles. 2010 , 393, 571-6		54
630	Oxidative stress and toxicity of gold nanoparticles in <i>Mytilus edulis</i> . 2010 , 100, 178-86		230
629	On the application potential of gold nanoparticles in nanoelectronics and biomedicine. 2010 , 368, 1405-53		208

628 Carbon Nanopowder Binds with DNA and May Induce DNA Aggregation. **2010,**

627	Gold nanoparticles: dispersibility in biological media and cell-biological effect. 2010, 20, 6176	63
626	Hollow nanoparticles from zein for potential medical applications. 2011, 21, 18227	106
625	CYTOTOXICITY AND DIFFERENTIATION EFFECTS OF GOLD NANOPARTICLES TO HUMAN BONE MARROW MESENCHYMAL STEM CELLS. 2011, 23, 141-152	22
624	Fluorescent gold nanoclusters as a biocompatible marker for in vitro and in vivo tracking of endothelial cells. 2011, 5, 4337-44	146
623	Effect of gold nanorod surface chemistry on cellular response. 2011, 5, 2870-9	156
622	Surface modified electrospun poly(vinyl alcohol) membranes for extracting nanoparticles from water. 2011, 3, 4625-31	65
621	Surface charge affects cellular uptake and intracellular trafficking of chitosan-based nanoparticles. 2011, 12, 2440-6	406
620	Health impact and safety of engineered nanomaterials. 2011, 47, 7025-38	195
619	Gold nanoparticles in cancer therapy. 2011, 32, 983-90	191
618	Association of Glutathione Level and Cytotoxicity of Gold Nanoparticles in Lung Cancer Cells. 2011, 115, 12797-12802	27
617	Particle size-dependent and surface charge-dependent biodistribution of gold nanoparticles after intravenous administration. 2011, 77, 407-16	424
616	Toxicology of engineered nanomaterials: focus on biocompatibility, biodistribution and biodegradation. 2011, 1810, 361-73	359
615	Effect of gold nanoparticles on glutathione depletion-induced hydrogen peroxide generation and apoptosis in HL7702 cells. 2011, 205, 86-95	88
614	Cytotoxicity of naphthoquinones and their capacity to generate reactive oxygen species is quenched when conjugated with gold nanoparticles. 2011, 6, 2113-22	19
613	Cellular uptake, cytotoxicity, and ROS generation with silica/conducting polymer core/shell nanospheres. 2011, 32, 7217-25	55
612	Magnetite (Fe ₃ O ₄) nanocrystals affect the expression of genes involved in the TGF-beta signalling pathway. 2011, 7, 1481-6	7
611	Artificial Nanoparticle Antioxidants. 2011, 235-253	20

610	Dendrimers as encapsulating, stabilizing, or directing agents for inorganic nanoparticles. 2011 , 111, 5301-44	244
609	Light-induced release of DNA from gold nanoparticles: nanoshells and nanorods. 2011 , 133, 12247-55	299
608	Systematic evaluation of nanomaterial toxicity: utility of standardized materials and rapid assays. 2011 , 5, 4688-97	144
607	Review on gold nanoparticles and their applications. 2011 , 3, 193-205	118
606	Cytotoxicity and mitochondrial damage caused by silica nanoparticles. 2011 , 25, 1619-29	196
605	Effect of gold nanoparticles on adipogenic differentiation of human mesenchymal stem cells. 2011 , 13, 6789-6803	20
604	Toxicity of citrate-capped AuNPs: an in vitro and in vivo assessment. 2011 , 13, 6821-6835	39
603	Nanoparticles: molecular targets and cell signalling. 2011 , 85, 733-41	168
602	Genomic instability of gold nanoparticle treated human lung fibroblast cells. 2011 , 32, 5515-23	62
601	Gold nanoparticles administration induced prominent inflammatory, central vein intima disruption, fatty change and Kupffer cells hyperplasia. 2011 , 10, 133	48
600	Exposure to gold nanoparticles produces cardiac tissue damage that depends on the size and duration of exposure. 2011 , 10, 205	37
599	Gold nanoparticles administration induces disarray of heart muscle, hemorrhagic, chronic inflammatory cells infiltrated by small lymphocytes, cytoplasmic vacuolization and congested and dilated blood vessels. 2011 , 10, 233	29
598	Oxidative stress mediates the effects of Raman-active gold nanoparticles in human cells. <i>Small</i> , 2011 , 7, 126-36	11 69
597	Receptor-mediated cellular uptake of nanoparticles: a switchable delivery system. <i>Small</i> , 2011 , 7, 1538-41	26
596	Cell-specific radiosensitization by gold nanoparticles at megavoltage radiation energies. 2011 , 79, 531-9	321
595	Biological response of hydrogels embedding gold nanoparticles. 2011 , 83, 331-9	55
594	Nanoparticles used in medical applications for the lung: hopes for nanomedicine and fears for nanotoxicity. 2011 , 304, 012031	4
593	Cell type-dependent uptake, localization, and cytotoxicity of 1.9 nm gold nanoparticles. 2012 , 7, 2673-85	130

592	Metal Nanoparticles: Electronic Properties, Bioresponse, and Synthesis Update based on the original article by Güter Schmid, Encyclopedia of Inorganic Chemistry Second Edition, 2005, John Wiley & Sons, Ltd. 2012 ,		3
591	Nanomaterials toxicity and cell death modalities. 2012 , 2012, 167896		73
590	Interaction of gold nanoglycodendrimers with algal cells (<i>Chlamydomonas reinhardtii</i>) and their effect on physiological processes. 2012 , 6, 109-20		54
589	Physical basis and biological mechanisms of gold nanoparticle radiosensitization. 2012 , 4, 4830-8		293
588	Isolation and characterization of cellulose-based nanofibers for nanoparticle extraction from an aqueous environment. 2012 , 22, 1985-1993		47
587	Cyclodextrin cavity size induced formation of superstructures with embedded gold nanoclusters. 2012 , 2, 12210		4
586	Impact of gold nanoparticle coating on redox homeostasis. 2012 , 438, 107-16		37
585	Cyto and genotoxicity of gold nanoparticles in human hepatocellular carcinoma and peripheral blood mononuclear cells. 2012 , 215, 119-25		114
584	Cellular uptake and cytotoxicity of positively charged chitosan gold nanoparticles in human lung adenocarcinoma cells. 2012 , 14, 1		24
583	Development of screening assays for nanoparticle toxicity assessment in human blood: preliminary studies with charged Au nanoparticles. <i>Nanomedicine</i> , 2012 , 7, 1355-64	5.6	37
582	The influence of the surface chemistry of silver nanoparticles on cell death. 2012 , 23, 375102		45
581	Silver, gold, and alloyed silver-gold nanoparticles: characterization and comparative cell-biologic action. 2012 , 14, 1		59
580	In vitro genotoxicity testing strategy for nanomaterials and the adaptation of current OECD guidelines. 2012 , 745, 104-11		174
579	Total flavonoids from <i>Rosa Laevigata</i> Michx fruit attenuates hydrogen peroxide induced injury in human umbilical vein endothelial cells. 2012 , 50, 3133-41		41
578	Uptake and cytotoxicity of citrate-coated gold nanospheres: Comparative studies on human endothelial and epithelial cells. 2012 , 9, 23		113
577	Analysis of changes in gene expression and metabolic profiles induced by silica-coated magnetic nanoparticles. 2012 , 6, 7665-80		63
576	An effective strategy for the synthesis of biocompatible gold nanoparticles using danshensu antioxidant: prevention of cytotoxicity via attenuation of free radical formation. 2013 , 7, 294-300		8
575	The orchestration of cellular and humoral responses is facilitated by divergent intracellular antigen trafficking in nanoparticle-based therapeutic vaccine. 2012 , 65, 189-97		31

574	Size and surface charge of gold nanoparticles determine absorption across intestinal barriers and accumulation in secondary target organs after oral administration. 2012 , 6, 36-46		270
573	Gold nanoparticles as computerized tomography (CT) contrast agents. 2012 , 2, 12515		106
572	Gold nanoparticles as novel agents for cancer therapy. 2012 , 85, 101-13		698
571	Nanomedicine and Nanobiotechnology. 2012 ,		8
570	Cytotoxicity of gold nanoparticles. 2012 , 509, 225-42		16
569	Au nanostructures: an emerging prospect in cancer theranostics. 2012 , 55, 872-83		11
568	Effect of Gold Nanoparticles in the Treatment of Established Collagen Arthritis in Rats. 2012 , 48, 16		19
567	The rheological properties of different GNPs. 2012 , 11, 14		6
566	Structural effect and mechanism of C70-carboxyfullerenes as efficient sensitizers against cancer cells. <i>Small</i> , 2012 , 8, 2070-7	11	36
565	Gold nanoparticles in biomedical applications: recent advances and perspectives. 2012 , 41, 2256-82		1419
564	Intrinsic therapeutic applications of noble metal nanoparticles: past, present and future. 2012 , 41, 2943-70		619
563	The golden age: gold nanoparticles for biomedicine. 2012 , 41, 2740-79		2437
562	Gold nanoclusters as novel optical probes for in vitro and in vivo fluorescence imaging. 2012 , 4, 313-322		74
561	Gold nanoparticles uptake and cytotoxicity assessed on rat liver precision-cut slices. 2012 , 128, 186-97		32
560	Nanomedicine Pillars and Monitoring NanoBiointeractions. 2012 , 27-56		4
559	Biomedical applications and safety issues of gold nanoparticles. 2012 , 4, 1-8		10
558	Potential of plant as a biological factory to synthesize gold and silver nanoparticles and their applications. 2012 , 11, 169-206		135
557	Baicalein protects human melanocytes from H ₂ O ₂ induced apoptosis via inhibiting mitochondria-dependent caspase activation and the p38 MAPK pathway. 2012 , 53, 183-93		79

556	Size dependent bioaccumulation and ecotoxicity of gold nanoparticles in an endobenthic invertebrate: the Tellinid clam <i>Scrobicularia plana</i> . 2012 , 168, 37-43	86
555	In vivo renal clearance, biodistribution, toxicity of gold nanoclusters. 2012 , 33, 4628-38	315
554	Size-dependent radiosensitization of PEG-coated gold nanoparticles for cancer radiation therapy. 2012 , 33, 6408-19	357
553	Effects of aggregation and the surface properties of gold nanoparticles on cytotoxicity and cell growth. 2012 , 8, 46-53	107
552	Nanoecotoxicity effects of engineered silver and gold nanoparticles in aquatic organisms. 2012 , 32, 40-59	149
551	Deciphering an underlying mechanism of differential cellular effects of nanoparticles: an example of Bach-1 dependent induction of HO-1 expression by gold nanorod. 2012 , 7, 10	8
550	Gold nanoparticles trigger apoptosis and necrosis in lung cancer cells with low intracellular glutathione. 2013 , 15, 1	20
549	Multi-parametric reference nanomaterials for toxicology: state of the art, future challenges and potential candidates. 2013 , 3, 18202	25
548	THE CHEMISTRY AND BIOLOGY OF GOLD NANOPARTICLE-MEDIATED PHOTOTHERMAL THERAPY: PROMISES AND CHALLENGES. 2013 , 03, 1330001	19
547	In Vivo Nanotoxicity Testing using the Zebrafish Embryo Assay. 2013 , 1,	89
546	Influence of structure and properties of colloidal biomaterials on cellular uptake and cell functions. 2013 , 1, 896-911	59
545	Gold nanoparticles attenuates antimycin A-induced mitochondrial dysfunction in MC3T3-E1 osteoblastic cells. 2013 , 153, 428-36	21
544	Enhanced Thermographic Detection of Skin Cancer Through Combining Laser Scanning and Biodegradable Nanoparticles. 2013 , 4,	2
543	Peptide-biphenyl hybrid-capped AuNPs: stability and biocompatibility under cell culture conditions. 2013 , 8, 315	2
542	Transplacental clastogenic and epigenetic effects of gold nanoparticles in mice. 2013 , 751-752, 42-8	72
541	Toxicological profile of small airway epithelial cells exposed to gold nanoparticles. 2013 , 238, 1355-61	27
540	An improved 3D tetra-culture system mimicking the cellular organisation at the alveolar barrier to study the potential toxic effects of particles on the lung. 2013 , 10, 31	123
539	Gold nanoparticles: recent aspects for human toxicology. 2013 , 8, 32	105

538	Biodistribution of inhaled gold nanoparticles in mice and the influence of surfactant protein D. 2013 , 26, 24-30	32
537	Nanooncology: the future of cancer diagnosis and therapy. 2013 , 63, 395-418	384
536	Cellular dose of partly soluble Cu particle aerosols at the air-liquid interface using an in vitro lung cell exposure system. 2013 , 26, 84-93	18
535	The gold standard: gold nanoparticle libraries to understand the nano-bio interface. 2013 , 46, 650-61	251
534	The improvement of anti-proliferation activity against breast cancer cell line of thioguanine by gold nanoparticles. 2013 , 22, 303-311	4
533	Mechanistic aspects of fluorescent gold nanocluster internalization by live HeLa cells. 2013 , 5, 1537-43	105
532	"Nanogold detoxifying machine" to remove idle nanogold particles from blood stream of cancer patients treated with antibody-nanogold therapeutics. 2013 , 80, 601-5	10
531	Size- and Ligand-Specific Bioresponse of Gold Clusters and Nanoparticles: Challenges and Perspectives. 2013 , 189-241	6
530	Effects of gold and silver nanoparticles in cultured human osteoarthritic chondrocytes. 2013 , 33, 1506-13	24
529	Toxicity evaluation of chromium picolinate nanoparticles in vivo and in vitro in rat. 2013 , 151, 247-55	5
528	Neoplastic cell response to tiopronin-coated gold nanoparticles. 2013 , 9, 264-73	13
527	Big signals from small particles: regulation of cell signaling pathways by nanoparticles. 2013 , 113, 3391-406	126
526	Surface charge-specific cytotoxicity and cellular uptake of tri-block copolymer nanoparticles. 2013 , 7, 71-84	51
525	High-sensitivity real-time analysis of nanoparticle toxicity in green fluorescent protein-expressing zebrafish. <i>Small</i> , 2013 , 9, 863-9	11 41
524	Influence of the surface coating on the cytotoxicity, genotoxicity and uptake of gold nanoparticles in human HepG2 cells. 2013 , 33, 1111-9	76
523	Photogeneration of reactive oxygen species on uncoated silver, gold, nickel, and silicon nanoparticles and their antibacterial effects. 2013 , 29, 4647-51	194
522	Polymer-coated nanoparticles interacting with proteins and cells: focusing on the sign of the net charge. 2013 , 7, 3253-63	390
521	Cadmium-based quantum dot induced autophagy formation for cell survival via oxidative stress. 2013 , 26, 662-73	105

520	Preparation of gold nanocluster bioconjugates for electron microscopy. 2013 , 950, 293-311		15
519	Biosensing approaches for rapid genotoxicity and cytotoxicity assays upon nanomaterial exposure. <i>Small</i> , 2013 , 9, 1821-30	11	72
518	Nanoparticles and the blood coagulation system. Part II: safety concerns. <i>Nanomedicine</i> , 2013 , 8, 969-81	5.6	132
517	Nanoparticles: toxicity, radicals, electron transfer, and antioxidants. 2013 , 1028, 15-35		17
516	Light-induced generation of singlet oxygen by naked gold nanoparticles and its implications to cancer cell phototherapy. <i>Small</i> , 2013 , 9, 4130-4	11	74
515	Disruption of biomolecule function by nanoparticles: how do gold nanoparticles affect Phase I biotransformation of persistent organic pollutants?. 2013 , 93, 123-32		6
514	Discriminating the states of matter in metallic nanoparticle transformations: what are we missing?. 2013 , 7, 2491-9		50
513	Cooperative effect of 5-aminolevulinic acid and gold nanoparticles for photodynamic therapy of cancer. 2013 , 102, 2760-9		22
512	Molecularly stabilised ultrasmall gold nanoparticles: synthesis, characterization and bioactivity. 2013 , 5, 6224-42		72
511	Gene delivery platforms. 2013 , 18, 637-647		8
510	Structure-activity relationships for biodistribution, pharmacokinetics, and excretion of atomically precise nanoclusters in a murine model. 2013 , 5, 10525-33		48
509	Phagocytic uptake and ROS-mediated cytotoxicity in human hepatic cell line of amphiphilic polyphosphazene nanoparticles. 2013 , 101, 285-97		7
508	Differential hERG ion channel activity of ultrasmall gold nanoparticles. 2013 , 110, 8004-9		53
507	Gold nanoparticles disrupt zebrafish eye development and pigmentation. 2013 , 133, 275-88		121
506	Comparative in vivo assessment of some adverse bioeffects of equidimensional gold and silver nanoparticles and the attenuation of nanosilver's effects with a complex of innocuous bioprotectors. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 2449-83	6.3	56
505	Identification of gold nanoparticle-resistant mutants of <i>Saccharomyces cerevisiae</i> suggests a role for respiratory metabolism in mediating toxicity. 2013 , 79, 728-33		20
504	Gold Nanoparticle-Biological Molecule Interactions and Catalysis. 2013 , 3, 683-708		20
503	NIST gold nanoparticle reference materials do not induce oxidative DNA damage. 2013 , 7, 21-9		41

502	Nanoimaging. 2013 ,		3
501	Current state of laser synthesis of metal and alloy nanoparticles as ligand-free reference materials for nano-toxicological assays. 2014 , 5, 1523-41		111
500	Application of Nanotechnology in Drug Delivery. 2014 ,		10
499	Effects of internalized gold nanoparticles with respect to cytotoxicity and invasion activity in lung cancer cells. 2014 , 9, e99175		44
498	Effects of intraperitoneally injected silver nanoparticles on histological structures and blood parameters in the albino rat. 2014 , 9, 1505-17		66
497	Mechanistic understanding of toxicity from nanocatalysts. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 13967-92	6.3	15
496	Overendocytosis of gold nanoparticles increases autophagy and apoptosis in hypoxic human renal proximal tubular cells. 2014 , 9, 4317-30		40
495	The Risk Evaluation of Tungsten Oxide Nanoparticles in Cultured Rat Liver Cells for Its Safe Applications in Nanotechnology. 2014 , 57, 532-541		15
494	In vitro nanoparticle toxicity to rat alveolar cells and coelomocytes from the earthworm <i>Lumbricus rubellus</i> . 2014 , 8, 28-37		25
493	Rational design of gold nanoparticle toxicology assays: a question of exposure scenario, dose and experimental setup. <i>Nanomedicine</i> , 2014 , 9, 1971-89	5.6	31
492	The role of mitochondrial function in gold nanoparticle mediated radiosensitisation. 2014 , 5, 5		67
491	Size dependent translocation and fetal accumulation of gold nanoparticles from maternal blood in the rat. 2014 , 11, 33		84
490	MULTIFUNCTIONALIZED SPIONs FOR NUCLEAR TARGETING: CELL UPTAKE AND GENE EXPRESSION. 2014 , 09, 1450009		2
489	Intracellular signal modulation by nanomaterials. 2014 , 811, 111-34		34
488	Targeted radiotherapy with gold nanoparticles: current status and future perspectives. <i>Nanomedicine</i> , 2014 , 9, 1063-82	5.6	124
487	High-Z Nanostructured Ceramics in Radiotherapy: First Evidence of Ta2O5-Induced Dose Enhancement on Radioresistant Cancer Cells in an MV Photon Field. 2014 , 31, 500-505		33
486	Influence of reducing agents on biosafety and biocompatibility of gold nanoparticles. 2014 , 174, 2458-70		23
485	Facile synthesis, pharmacokinetic and systemic clearance evaluation, and positron emission tomography cancer imaging of ¹⁹⁷ Au-Au alloy nanoclusters. 2014 , 6, 13501-9		64

484	Can gold nanoparticles affect the histological structure of the pulmonary alveoli in adult albino rats?. 2014 , 37, 132-145		
483	The Impact of Surface Ligands and Synthesis Method on the Toxicity of Glutathione-Coated Gold Nanoparticles. 2014 , 4, 355-371		28
482	Health hazards associated with nanomaterials. 2014 , 30, 499-519		32
481	Radiosensitization of tumor cells through endoplasmic reticulum stress induced by PEGylated nanogel containing gold nanoparticles. 2014 , 347, 151-8		52
480	Physical and Chemical Consequences of Size-Reduction of Gold: Bioresponse and Biodistribution. 2014 , 25, 29-49		11
479	Oxidative stress contributes to gold nanoparticle-induced cytotoxicity in human tumor cells. 2014 , 24, 161-72		67
478	Electron spin resonance spectroscopy for the study of nanomaterial-mediated generation of reactive oxygen species. 2014 , 22, 49-63		120
477	Evaluation of cytotoxic, oxidative stress and genotoxic responses of hydroxyapatite nanoparticles on human blood cells. 2014 , 34, 373-9		43
476	Externally addressable hydrogel nanocomposites for biomedical applications. 2014 , 4, 1-10		35
475	Nanomaterials for Drug Delivery. 2014 , 221-268		11
474	Long-term effects of nanoparticles on nutrition and metabolism. <i>Small</i> , 2014 , 10, 3603-11	11	44
473	Nanotechnology-based intelligent drug design for cancer metastasis treatment. 2014 , 32, 761-77		131
472	Air-blood barrier translocation of tracheally instilled gold nanoparticles inversely depends on particle size. 2014 , 8, 222-33		167
471	Biofabrication of gold nanoparticles and its biocompatibility in human breast adenocarcinoma cells (MCF-7). 2014 , 20, 1713-1719		22
470	Toxicity of Gold Nanoparticles. 2014 , 207-254		9
469	Derivatization of Colloidal Gold Nanoparticles Toward Their Application in Life Sciences. 2014 , 66, 153-206		
468	Multicolor computed tomographic molecular imaging with noncrystalline high-metal-density nanobeacons. 2014 , 9, 13-25		22
467	The unexpected effect of PEGylated gold nanoparticles on the primary function of erythrocytes. 2014 , 6, 9017-24		42

466	Metabolomic profiles delineate the potential role of glycine in gold nanorod-induced disruption of mitochondria and blood-testis barrier factors in TM-4 cells. 2014 , 6, 8265-73	27
465	The shape effect of mesoporous silica nanoparticles on intracellular reactive oxygen species in A375 cells. 2014 , 38, 4258	44
464	Chip based single cell analysis for nanotoxicity assessment. 2014 , 139, 2088-98	36
463	Cationic Au Nanoparticle Binding with Plasma Membrane-like Lipid Bilayers: Potential Mechanism for Spontaneous Permeation to Cells Revealed by Atomistic Simulations. 2014 , 118, 11131-11141	60
462	An easy synthesis of autofluorescent alloyed silver-gold nanoparticles. 2014 , 2, 7887-7895	41
461	Gold nanoparticles and gold nanoparticle-conjugates for delivery of therapeutic molecules. Progress and challenges. 2014 , 2, 4204-4220	79
460	Gold nanostructures for bioimaging, drug delivery and therapeutics. 2014 , 163-176	5
459	Atomistic simulations of anionic Au ₁₄₄ (SR) ₆₀ nanoparticles interacting with asymmetric model lipid membranes. 2014 , 1838, 2852-60	40
458	Molecular responses of cells to 2-mercapto-1-methylimidazole gold nanoparticles (AuNPs)-mmi: investigations of histone methylation changes. 2014 , 16, 1	6
457	Numerical simulations on conformable laser-induced interstitial thermotherapy through combined use of multi-beam heating and biodegradable nanoparticles. 2014 , 29, 1505-16	3
456	Engineered nanomaterials: an emerging class of novel endocrine disruptors. 2014 , 91, 20	24
455	Gold nanoparticles interfere with sperm functionality by membrane adsorption without penetration. 2014 , 8 Suppl 1, 118-27	47
454	Presentation matters: Identity of gold nanocluster capping agent governs intracellular uptake and cell metabolism. 2014 , 7, 805-815	75
453	A green chemistry approach for synthesizing biocompatible gold nanoparticles. 2014 , 9, 248	103
452	Recent toxicological investigations of metal or metal oxide nanoparticles in mammalian models in vitro and in vivo: DNA damaging potential, and relevant physicochemical characteristics. 2014 , 10, 107-126	12
451	Transport across the cell-membrane dictates nanoparticle fate and toxicity: a new paradigm in nanotoxicology. 2014 , 6, 10264-73	66
450	Comparative cytotoxicity studies of carbon-encapsulated iron nanoparticles in murine glioma cells. 2014 , 117, 135-43	17
449	Study on the interaction between histidine-capped Au nanoclusters and bovine serum albumin with spectroscopic techniques. 2014 , 118, 897-902	23

448	Lack of genotoxic potential of ZnO nanoparticles in in vitro and in vivo tests. 2014 , 761, 1-9	39
447	Using a holistic approach to assess the impact of engineered nanomaterials inducing toxicity in aquatic systems. 2014 , 22, 128-146	43
446	Chemical basis of interactions between engineered nanoparticles and biological systems. 2014 , 114, 7740-81	398
445	Ligand and Solvation Effects on the Structural and Electronic Properties of Small Gold Clusters. 2014 , 118, 4362-4376	33
444	Acute and chronic administration of gold nanoparticles cause DNA damage in the cerebral cortex of adult rats. 2014 , 766-767, 25-30	34
443	Effects of mesoporous SiO ₂ , Fe ₃ O ₄ , and TiO ₂ nanoparticles on the biological functions of endothelial cells in vitro. 2014 , 102, 1726-36	24
442	Undetectable levels of genotoxicity of SiO ₂ nanoparticles in in vitro and in vivo tests. 2014 , 9 Suppl 2, 173-81	11
441	Measurement of Nanoparticle Uptake by Alveolar Macrophages: A New Approach Based on Quantitative Image Analysis. 2014 , 166-187	
440	Physicochemical Characterization-Dependent Toxicity of Nanoparticles. 2014 , 73-102	2
439	Metallic Nanoparticulate Drug Delivery Systems. 2014 , 249-289	
438	Small-sized gold nanoparticles inhibit the proliferation and invasion of SW579 cells. 2015 , 12, 8313-9	8
437	Normal Pregnancy and Lactation in a Cat after Treatment of Mammary Gland Tumor When Using Photothermal Therapy with Gold Nanorods: A Case Report. 2015 , 06,	1
436	Some inferences from in vivo experiments with metal and metal oxide nanoparticles: the pulmonary phagocytosis response, subchronic systemic toxicity and genotoxicity, regulatory proposals, searching for bioprotectors (a self-overview). 2015 , 10, 3013-29	23
435	Insights into the distinguishing stress-induced cytotoxicity of chiral gold nanoclusters and the relationship with GSTP1. 2015 , 5, 134-49	40
434	Enhancing anti-tumor efficacy of Doxorubicin by non-covalent conjugation to gold nanoparticles - in vitro studies on feline fibrosarcoma cell lines. 2015 , 10, e0124955	27
433	Cytotoxicity of various types of gold-mesoporous silica nanoparticles in human breast cancer cells. 2015 , 10, 6075-87	22
432	Gold Nanoparticles Promote Oxidant-Mediated Activation of NF- κ B and 53BP1 Recruitment-Based Adaptive Response in Human Astrocytes. <i>BioMed Research International</i> , 2015 , 2015, 304575	3 26
431	The interaction of QDs with RAW264.7 cells: nanoparticle quantification, uptake kinetics and immune responses study. 2015 , 5, 42250-42258	4

430	Glucagon-like peptide-1 regulates mitochondrial biogenesis and tau phosphorylation against advanced glycation end product-induced neuronal insult: Studies in vivo and in vitro. 2015 , 300, 75-84		28
429	Nanotoxicology: Determining Nano-Bio Interactions and Evaluating Toxicity Using In vitro Models. 2015 , 85-110		3
428	Cytotoxicity of Ultrasmall Gold Nanoparticles on Planktonic and Biofilm Encapsulated Gram-Positive Staphylococci. <i>Small</i> , 2015 , 11, 3183-93	11	61
427	Biomedical applications of gold nanomaterials: opportunities and challenges. 2015 , 7, 779-96		48
426	Citrate gold nanoparticle exposure in the marine bivalve <i>Ruditapes philippinarum</i> : uptake, elimination and oxidative stress response. 2015 , 22, 17414-24		46
425	Nanoparticle pollution and associated increasing potential risks on environment and human health: a case study of China. 2015 , 22, 19297-306		28
424	Delivery aspects of antioxidants in diabetes management. 2015 , 12, 827-44		7
423	Enhanced NIR radiation-triggered hyperthermia by mitochondrial targeting. 2015 , 137, 3017-23		151
422	Gold nanoparticles as contrast agents in x-ray imaging and computed tomography. <i>Nanomedicine</i> , 2015 , 10, 321-41	5.6	207
421	Advances in studies of nanoparticle-biomembrane interactions. <i>Nanomedicine</i> , 2015 , 10, 121-41	5.6	26
420	Fluorescent dye incorporation causes weakened gene association and intracellular aggregate formation in nonviral carriers. 2015 , 17, 69-79		1
419	Assessment of the geno- and cytotoxic action of colloidal gold nanoparticles on the bone marrow erythroid cell lines and tumors in animals with Ehrlich ascites carcinoma. 2015 , 49, 42-48		2
418	Monitoring of the Enzymatic Degradation of Protein Corona and Evaluating the Accompanying Cytotoxicity of Nanoparticles. 2015 , 7, 17614-22		36
417	An overview of nanotoxicity and nanomedicine research: principles, progress and implications for cancer therapy. 2015 , 3, 7153-7172		89
416	Interaction of gold nanoparticles with proteins and cells. 2015 , 16, 034610		122
415	Room Temperature Synthesis of Highly Monodisperse and Sers-Active Glucose-Reduced Gold Nanoparticles. 2015 , 82, 415-419		4
414	Gold nanoparticles alter parameters of oxidative stress and energy metabolism in organs of adult rats. 2015 , 93, 548-57		27
413	In vivo integrity of polymer-coated gold nanoparticles. 2015 , 10, 619-23		269

4 ¹²	Dynamic imaging of a single gold nanoparticle in liquid irradiated by off-resonance femtosecond laser. 2015 , 7, 11758-65	15
4 ¹¹	Comparison between ultrafine and fine particulate matter collected in Lebanon: Chemical characterization, in vitro cytotoxic effects and metabolizing enzymes gene expression in human bronchial epithelial cells. 2015 , 205, 250-60	28
4 ¹⁰	Surface-engineered graphene navigate divergent biological outcomes toward macrophages. 2015 , 7, 5239-47	40
4 ⁰⁹	Absence of systemic toxicity in mouse model towards BaTiO ₃ nanoparticulate based eluate treatment. 2015 , 26, 103	20
4 ⁰⁸	Cyto- and genotoxicity assessment of Gold nanoparticles obtained by laser ablation in A549 lung adenocarcinoma cells. 2015 , 17, 1	6
4 ⁰⁷	Gold nanoparticles do not induce myotube cytotoxicity but increase the susceptibility to cell death. 2015 , 29, 819-27	32
4 ⁰⁶	An in vitro study on the cytotoxicity of bismuth oxychloride nanosheets in human HaCaT keratinocytes. 2015 , 80, 52-61	18
4 ⁰⁵	Effects of Size, Shape, Surface Charge and Functionalization on Cytotoxicity of Gold Nanoparticles. 2015 , 05, 1540003	5
4 ⁰⁴	Toxicity of particulate matter from incineration of nanowaste. 2015 , 2, 143-154	32
4 ⁰³	Study of the nucleation and growth of antibiotic labeled Au NPs and blue luminescent Au ₈ quantum clusters for Hg(2+) ion sensing, cellular imaging and antibacterial applications. 2015 , 7, 19985-20002	33
4 ⁰²	Polymeric micro/nanoparticles: Particle design and potential vaccine delivery applications. 2015 , 33, 5927-36	60
4 ⁰¹	Comparative cytotoxicity evaluation of different size gold nanoparticles in human dermal fibroblasts. 2015 , 10, 1401-1417	26
4 ⁰⁰	Mycofabrication of common plasmonic colloids, theoretical considerations, mechanism and potential applications. 2015 , 225, 37-52	6
3 ⁹⁹	Synthesis, characterization and biological evaluation of mixed-ligand ruthenium(II) complexes for photodynamic therapy. 2015 , 44, 17335-45	42
3 ⁹⁸	Effect of ultrasmall gold nanoparticles on the murine native sperm chromatin. 2015 , 42, 479-485	2
3 ⁹⁷	Enhanced cytotoxic activity of cetuximab in EGFR-positive lung cancer by conjugating with gold nanoparticles. <i>Scientific Reports</i> , 2014 , 4, 7490	4.9 58
3 ⁹⁶	Synergism through combination of chemotherapy and oxidative stress-induced autophagy in A549 lung cancer cells using redox-responsive nanohybrids: a new strategy for cancer therapy. 2015 , 42, 30-41	40
3 ⁹⁵	A high yield, one-pot dialysis-based process for self-assembly of near infrared absorbing gold nanoparticles. 2015 , 441, 10-6	11

394	Effects of iron oxide nanoparticles: cytotoxicity, genotoxicity, developmental toxicity, and neurotoxicity. 2015 , 56, 125-48		97
393	The energy blocker inside the power house: Mitochondria targeted delivery of 3-bromopyruvate. 2015 , 6, 1832-1845		68
392	Nanoparticle-cored dendrimers: functional hybrid nanocomposites as a new platform for drug delivery systems. 2015 , 7, 3808-16		42
391	Uniform-sized particles in biomedical field prepared by membrane emulsification technique. 2015 , 125, 85-97		24
390	Nanocomposites, Nanophotonics, Nanobiotechnology, and Applications. 2015 ,		3
389	Cytotoxicity and Genotoxicity of Biosynthesized Gold and Silver Nanoparticles on Human Cancer Cell Lines. 2015 , 26, 775-788		47
388	A multifunctional nanoplatform for imaging, radiotherapy, and the prediction of therapeutic response. <i>Small</i> , 2015 , 11, 834-43	11	48
387	Health risk assessments of lithium titanate nanoparticles in rat liver cell model for its safe applications in nanopharmacology and nanomedicine. 2016 , 68, 291-302		7
386	Evaluation of oxidative response and tissular damage in rat lungs exposed to silica-coated gold nanoparticles under static magnetic fields. 2016 , 11, 2711-9		8
385	. 2016 ,		20
384	Phytochemicals and Biogenic Metallic Nanoparticles as Anticancer Agents. 2016 , 2016, 3685671		77
383	The Chemotherapeutic Potential of Gold Nanoparticles Against Human Carcinomas: A Review. 2016 , 783-811		
382	Effects of nanoparticle size on antitumor activity of 10-hydroxycamptothecin-conjugated gold nanoparticles: in vitro and in vivo studies. 2016 , 11, 929-40		27
381	Size-Dependent Toxicity of Gold Nanoparticles on Human Embryonic Stem Cells and Their Neural Derivatives. <i>Small</i> , 2016 , 12, 631-46	11	95
380	PEGylated gold nanorods as optical trackers for biomedical applications: an in vivo and in vitro comparative study. 2016 , 27, 255101		26
379	Protein disulphide isomerase as a target for nanoparticle-mediated sensitisation of cancer cells to radiation. 2016 , 27, 215101		26
378	Gold Nanoparticles for Imaging and Drug Transport to the CNS. 2016 , 130, 155-98		21
377	Cytotoxic effects of gold nanoparticles exposure employing in vitro animal cell culture system as part of nanobiosafety. 2016 ,		2

376	Effect of Modification Protocols on the Effectiveness of Gold Nanoparticles as Drug Delivery Vehicles for Killing of Breast Cancer Cells. 2016 , 69, 1402	9
375	Gold Nanoparticles of Diameter 13 nm Induce Apoptosis in Rabbit Articular Chondrocytes. 2016 , 11, 249	21
374	Acid-Base Properties and Surface Charge Distribution of the Water-Soluble Au ₁₀₂ (pMBA) ₄₄ Nanocluster. 2016 , 120, 10041-10050	36
373	Nanoparticles and the Blood Coagulation System. 2016 , 261-302	10
372	Engineering PEEK Bioactivity: Effect of Plasma and Gold Sputtered Interface. 2016 , 3, 115-124	0
371	Size, shape and surface chemistry of nano-gold dictate its cellular interactions, uptake and toxicity. 2016 , 83, 152-190	108
370	Effects of morphology and surface hydroxyl on the toxicity of BiOCl in human HaCaT cells. 2016 , 163, 438-445	6
369	Spatial distributions of dose enhancement around a gold nanoparticle at several depths of proton Bragg peak. 2016 , 384, 113-120	5
368	Mass Spectrometric Methods for Investigating the Influence of Surface Chemistry on the Fate of Core-Shell Nanoparticles in Biological and Environmental Samples. 2016 , 31-52	
367	Histological and genotoxic evaluation of gold nanoparticles in ovarian cells of zebrafish (<i>Danio rerio</i>). 2016 , 18, 1	10
366	OMICs Techniques for Nanosafety. 2016 , 287-318	0
365	Nanoparticles and intracellular applications of surface-enhanced Raman spectroscopy. 2016 , 141, 5037-55	76
364	Dose enhancement and cytotoxicity of gold nanoparticles in colon cancer cells when irradiated with kilo- and mega-voltage radiation. 2016 , 1, 94-102	18
363	Selenium-Containing Amphiphiles Reduced and Stabilized Gold Nanoparticles: Kill Cancer Cells via Reactive Oxygen Species. 2016 , 8, 22106-12	60
362	Photothermal therapy mediated by gum Arabic-conjugated gold nanoparticles suppresses liver preneoplastic lesions in mice. 2016 , 163, 47-56	24
361	Coexposure to silver nanoparticles and ultraviolet A synergistically enhances the phosphorylation of histone H2AX. 2016 , 162, 213-222	24
360	Dual Action Enhancement of Gold Nanoparticle Radiosensitization by Pentamidine in Triple Negative Breast Cancer. 2016 , 185, 549-62	21
359	In one harness: the interplay of cellular responses and subsequent cell fate after quantum dot uptake. <i>Nanomedicine</i> , 2016 , 11, 2603-15	5.6 3

358	Photothermal therapeutic effect of PEGylated gold nano-semicubes in chemically-induced skin cancer in mice. 2016 , 164, 21-29		15
357	Comparative analysis of metallic nanoparticles as exogenous soft tissue contrast for live in vivo micro-computed tomography imaging of avian embryonic morphogenesis. 2016 , 245, 1001-10		2
356	Assessing the Intracellular Integrity of Phosphine-Stabilized Ultrasmall Cytotoxic Gold Nanoparticles Enabled by Fluorescence Labeling. 2016 , 5, 3118-3128		5
355	Gold nanoparticles for cancer radiotherapy: a review. 2016 , 7, 8		238
354	Inhibition of gold nanoparticles (AuNPs) on pathogenic biofilm formation and invasion to host cells. <i>Scientific Reports</i> , 2016 , 6, 26667	4-9	95
353	Camphor-mediated synthesis of carbon nanoparticles, graphitic shell encapsulated carbon nanocubes and carbon dots for bioimaging. <i>Scientific Reports</i> , 2016 , 6, 21286	4-9	42
352	Analytical Nanotoxicology. 2016 , 1-28		
351	Gold (III) bioreduction by cyanobacteria with special reference to in vitro biosafety assay of gold nanoparticles. 2016 , 28, 3395-3406		21
350	Effects of titanium dioxide nanoparticles on β -synuclein aggregation and the ubiquitin-proteasome system in dopaminergic neurons. 2016 , 44, 690-4		22
349	Ameliorative effect of <i>Allolobophora caliginosa</i> extract on hepatotoxicity induced by silicon dioxide nanoparticles. 2016 , 32, 1358-1372		5
348	Genotoxicity in primary human peripheral lymphocytes after exposure to lithium titanate nanoparticles in vitro. 2016 , 32, 1423-1429		3
347	Fabrication and characterization of gold nanoparticle-loaded TiO ₂ nanotube arrays for medical implants. 2016 , 27, 31		17
346	Ligand-lipid and ligand-core affinity control the interaction of gold nanoparticles with artificial lipid bilayers and cell membranes. 2016 , 12, 1409-19		15
345	Optimising element choice for nanoparticle radiosensitisers. 2016 , 8, 581-9		64
344	Smart Nanopreparations for Cancer. 2016 , 449-478		
343	Nanoparticles in radiation oncology: From bench-side to bedside. 2016 , 375, 256-262		60
342	Ultrasmall inorganic nanoparticles: State-of-the-art and perspectives for biomedical applications. 2016 , 12, 1663-701		178
341	Multivalency of PEG-thiol ligands affects the stability of NIR-absorbing hollow gold nanospheres and gold nanorods. 2016 , 4, 2828-2841		22

340	Design of nanomaterial based systems for novel vaccine development. 2016 , 4, 785-802	43
339	Cellular Uptake and Intra-Organ Biodistribution of Functionalized Silica-Coated Gold Nanorods. 2016 , 18, 667-76	14
338	Intrinsic effects of gold nanoparticles on proliferation and invasion activity in SGC-7901 cells. 2016 , 35, 1457-62	11
337	Toxicity assessment of hydroxyapatite nanoparticles in rat liver cell model in vitro. 2016 , 35, 1073-83	16
336	Gold nanoparticles and ions [Friends or foes? As they are seen by human cells U-937 and HL-60. 2016 , 11, 564-580	9
335	Gold nanoparticles for applications in cancer radiotherapy: Mechanisms and recent advancements. 2017 , 109, 84-101	454
334	Biocompatibility and nanostructured materials: applications in nanomedicine. 2017 , 45, 833-842	106
333	Spectroscopic analysis of the interaction between NiO nanoparticles and bovine trypsin. 2017 , 35, 1381-1388	15
332	Ultrasmall Silica-Based Bismuth Gadolinium Nanoparticles for Dual Magnetic Resonance-Computed Tomography Image Guided Radiation Therapy. 2017 , 17, 1733-1740	88
331	Significant Radiation Enhancement Effects by Gold Nanoparticles in Combination with Cisplatin in Triple Negative Breast Cancer Cells and Tumor Xenografts. 2017 , 187, 147-160	33
330	The in vitro and in vivo toxicity of gold nanoparticles. 2017 , 28, 691-702	158
329	Immunological effects of graphene family nanomaterials. 2017 , 5, 109-118	11
328	Targeted dose enhancement in radiotherapy for breast cancer using gold nanoparticles, part 1: A radiobiological model study. 2017 , 44, 1983-1992	17
327	Targeted dose enhancement in radiotherapy for breast cancer using gold nanoparticles, part 2: A treatment planning study. 2017 , 44, 1993-2001	6
326	Biological mechanisms of gold nanoparticle radiosensitization. 2017 , 8, 2	117
325	Vitis vinifera peel polyphenols stabilized gold nanoparticles induce cytotoxicity and apoptotic cell death in A431 skin cancer cell lines. 2017 , 28, 1170-1184	29
324	A novel fluorescent turn-on biosensor based on QDs@GSH-GO fluorescence resonance energy transfer for sensitive glutathione S-transferase sensing and cellular imaging. 2017 , 9, 3881-3888	39
323	Nanoparticle-Protein Interactions: Therapeutic Approaches and Supramolecular Chemistry. 2017 , 50, 1383-1390	103

322	Elettaria cardamomum seed mediated rapid synthesis of gold nanoparticles and its biological activities. 2017 , 2, 1-8	55
321	Effect of acute and long-term administration of gold nanoparticles on biochemical parameters in rat brain. 2017 , 79, 748-755	12
320	Colloidal Gold Nanoparticles Induce Changes in Cellular and Subcellular Morphology. 2017 , 11, 7807-7820	60
319	Gold nanoparticles, radiations and the immune system: Current insights into the physical mechanisms and the biological interactions of this new alliance towards cancer therapy. 2017 , 178, 1-17	40
318	Gum Arabic-encapsulated gold nanoparticles for a non-invasive photothermal ablation of lung tumor in mice. 2017 , 89, 1045-1054	25
317	New Research in Ionizing Radiation and Nanoparticles: The ARGENT Project. 2017 , 379-434	1
316	Nanoscale Insights into Ion-Beam Cancer Therapy. 2017 ,	33
315	Controllably Switched Drug Release from Successively Dual-Targeted Nanoreservoirs. 2017 , 6, 1600919	15
314	The Molecular Imprinted Nanotrappor for Catalase: A Chemical-Free Inhibition Way to Trigger Tumor Cells Apoptosis. 2017 , 34, 1600260	2
313	New Advances in Nanotechnology-Based Diagnosis and Therapeutics for Breast Cancer: An Assessment of Active-Targeting Inorganic Nanoplatforms. 2017 , 28, 135-152	70
312	Histological effects of gold nanoparticles on lung tissue of adult male albino rats. 2017 ,	0
311	Experimental Research into Metallic and Metal Oxide Nanoparticle Toxicity In Vivo. 2017 , 259-319	19
310	Multivalent gold nanoparticle-peptide conjugates for targeting intracellular bacterial infections. 2017 , 9, 14074-14093	42
309	Recent Developments in Antimicrobial-Peptide-Conjugated Gold Nanoparticles. 2017 , 28, 2673-2686	96
308	A mussel-inspired hybrid copolymer adhered to chitosan-coated micro-sized carbon fiber aerogels for highly efficient nanoparticle scavenging. 2017 , 4, 2164-2174	15
307	Mitochondrial impairment and oxidative stress mediated apoptosis induced by FeO nanoparticles in. 2017 , 6, 719-728	12
306	Nanostructures, concentrations and energies: an ideal equation to extend therapeutic efficiency on radioresistant 9L tumor cells using Ta_2O_5 ceramic nanostructured particles. 2017 , 3, 015018	7
305	Challenges on the toxicological predictions of engineered nanoparticles. 2017 , 8, 59-72	41

304	Toxic effects and biodistribution of ultrasmall gold nanoparticles. 2017 , 91, 3011-3037		58
303	Engineering gold-based radiosensitizers for cancer radiotherapy. 2017 , 4, 817-831		132
302	Radiosensitization by gold nanoparticles: Will they ever make it to the clinic?. 2017 , 124, 344-356		93
301	One-dimensional nanomaterial-assembled macroscopic membranes for water treatment. 2017 , 17, 79-95		56
300	Antioxidant nanomaterials in advanced diagnoses and treatments of ischemia reperfusion injuries. 2017 , 5, 9452-9476		110
299	Residual weakly bound ligands influence biological compatibility of mixed ligand shell, thiol-stabilized gold nanoparticles. 2017 , 4, 1634-1646		4
298	Titanium dioxide food additive (E171) induces ROS formation and genotoxicity: contribution of micro and nano-sized fractions. 2017 , 32, 139-149		103
297	Structural damage of <i>Bacillus subtilis</i> biofilms using pulsed laser interaction with gold thin films. 2017 , 10, 1043-1052		1
296	Nanogold-Gallate Chitosan-Targeted Pulmonary Delivery for Treatment of Lung Cancer. 2017 , 18, 1104-1115	14	
295	Current Status and Future Direction of Nanomedicine: Focus on Advanced Biological and Medical Applications. 2017 , 51, 106-117		16
294	Speciation of gold nanoparticles and low-molecular gold species in Wistar rat tissues by HPLC coupled to ICP-MS. 2017 , 32, 193-199		20
293	In vitro and in vivo toxicity assessment of nanoparticles. 2017 , 7, 243-256		151
292	Inhaled Pollutants: The Molecular Scene behind Respiratory and Systemic Diseases Associated with Ultrafine Particulate Matter. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	84
291	Effects of Gold Nanoparticles and Gold Anti-Arthritic Compounds on Inflammation Marker Expression in Macrophages. 2017 , 70, 1057		6
290	In Vitro Study of Influence of Au Nanoparticles on HT29 and SPEV Cell Lines. 2017 , 12, 494		12
289	Green Synthesis of Selenium Nanoparticles from Broccoli, Characterization, Application and Toxicity. 2017 , 05,		25
288	Tannic acid modification of metal nanoparticles: possibility for new antiviral applications. 2017 , 335-363		14
287	Photoluminescent Gold Nanoclusters in Cancer Cells: Cellular Uptake, Toxicity, and Generation of Reactive Oxygen Species. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	20

286	Cellular localization and biological effects of 20nm-gold nanoparticles. 2018 , 106, 1708-1721	17
285	Nanoparticle-cell interactions induced apoptosis: a case study with nanoconjugated epidermal growth factor. 2018 , 10, 6712-6723	8
284	Rutin and rutin-conjugated gold nanoparticles ameliorate collagen-induced arthritis in rats through inhibition of NF- κ B and iNOS activation. 2018 , 59, 310-317	54
283	Gold nanoparticles functionalized with angiogenin-mimicking peptides modulate cell membrane interactions. 2018 , 13, 03C401	6
282	Molecular and Cellular Toxicology of Nanomaterials with Related to Aquatic Organisms. 2018 , 1048, 263-284	2
281	Effect of nanoparticles of silver on redox status and the accumulation of Ag in chicken tissues. 2018 , 98, 4085-4096	6
280	Multifunctional Serine Protease Inhibitor-Coated Water-Soluble Gold Nanoparticles as a Novel Targeted Approach for the Treatment of Inflammatory Skin Diseases. 2018 , 29, 1060-1072	8
279	Inhibiting Effect of Zinc Oxide Nanoparticles on Advanced Glycation Products and Oxidative Modifications: a Potential Tool to Counteract Oxidative Stress in Neurodegenerative Diseases. 2018 , 55, 7438-7452	20
278	Separation of PEGylated Gold Nanoparticles by Micellar Enhanced Electrospun Fiber Based Ultrathin Layer Chromatography. 2018 , 90, 2662-2670	5
277	Self-Assembled Coumarin Nanoparticle in Aqueous Solution as Selective Mitochondrial-Targeting Drug Delivery System. 2018 , 10, 3380-3391	30
276	Biocompatibility assessment of single-walled carbon nanotubes using <i>Saccharomyces cerevisiae</i> as a model organism. 2018 , 16, 44	21
275	The most important inferences from the Ekaterinburg nanotoxicology team's animal experiments assessing adverse health effects of metallic and metal oxide nanoparticles. 2018 , 5, 363-376	21
274	Mitochondria-targeting self-assembled nanoparticles derived from triphenylphosphonium-conjugated cyanostilbene enable site-specific imaging and anticancer drug delivery. 2018 , 11, 1082-1098	26
273	Modifying the mechanical properties of gold nanorods by copper doping and triggering their cytotoxicity with ultrasonic wave. 2018 , 163, 47-54	4
272	Balancing nanotoxicity and returns in health applications: The Prisoner's Dilemma. 2018 , 393, 83-89	5
271	Anti-tumor effects of cold atmospheric pressure plasma on vestibular schwannoma demonstrate its feasibility as an intra-operative adjuvant treatment. 2018 , 115, 43-56	11
270	Nanoparticles induce apoptosis via mediating diverse cellular pathways. <i>Nanomedicine</i> , 2018 , 13, 2939-2955	15
269	Comparative biological effects of spherical noble metal nanoparticles (Rh, Pd, Ag, Pt, Au) with 4-8 nm diameter. 2018 , 9, 2763-2774	13

268	Manufactured silver and gold nanoparticles-induced apoptosis by caspase-pathway in human cell lines. 2018 , 100, 629-643	4
267	Application of Plasmonic Gold Nanoparticle for Drug Delivery System. 2018 , 19, 271-278	11
266	Cellular Uptake and Radio-sensitization Effect of Small Gold Nanoparticles in MCF-7 Breast Cancer Cells. 2018 , 09,	4
265	A self-adjuvanted nanoparticle based vaccine against infectious bronchitis virus. 2018 , 13, e0203771	18
264	Review of In vitro Toxicity of Nanoparticles and Nanorods: Part 1. 2018 ,	
263	Hierarchical Multiplexing Nanodroplets for Imaging-Guided Cancer Radiotherapy via DNA Damage Enhancement and Concomitant DNA Repair Prevention. 2018 , 12, 5684-5698	58
262	Gold Nanoparticles for Tissue Engineering. 2018 , 343-390	6
261	Syntheses of gold nanoparticles and their impact on the cell cycle in breast cancer cells subjected to megavoltage X-ray irradiation. 2018 , 91, 486-495	8
260	Facile and green synthesis of pullulan derivative-stabilized Au nanoparticles as drug carriers for enhancing anticancer activity. 2018 , 198, 495-508	26
259	Biosynthesis, characterization, and evaluation of bioactivities of leaf extract-mediated biocompatible gold nanoparticles from. 2018 , 19, e00268	25
258	Age-Dependent Rat Lung Deposition Patterns of Inhaled 20 Nanometer Gold Nanoparticles and their Quantitative Biokinetics in Adult Rats. 2018 , 12, 7771-7790	34
257	Toxicity of nanomaterials to biomedical applications[A review. 2018 , 439-473	2
256	Peptide-based vaccines. 2018 , 327-358	17
255	Biogenesis of metal nanoparticles and their pharmacological applications: present status and application prospects. 2018 , 8, 217-254	169
254	Metal-based for Future Radiotherapy: Radiosensitizing and Synergistic Effects on Tumor Cells. 2018 , 8, 1824-1849	153
253	Novel method for rapid toxicity screening of magnetic nanoparticles. <i>Scientific Reports</i> , 2018 , 8, 7462	4.9 39
252	Gold nanoparticles-induced cytotoxicity in triple negative breast cancer involves different epigenetic alterations depending upon the surface charge. <i>Scientific Reports</i> , 2018 , 8, 12295	4.9 51
251	Chitosan gold nanoparticles induce cell death in HeLa and MCF-7 cells through reactive oxygen species production. 2018 , 13, 3235-3250	46

250	Effect of matrix-nanoparticle interactions on recognition of aryldiazonium nanoparticle-imprinted matrices. 2019 , 12, 265-271	4
249	Comparison of the effects of MnO-NPs and MnO-MPs on mitochondrial complexes in different organs. 2019 , 29, 86-94	7
248	Radio-enhancement by gold nanoparticles and their impact on water radiolysis for x-ray, proton and carbon-ion beams. 2019 , 64, 175005	15
247	Inactivation of HeLa cells on nanoporous gold. 2019 , 7, 100370	2
246	Gold nanoparticles affect the antioxidant status in selected normal human cells. 2019 , 14, 4991-5015	18
245	The Influence of Available Cu and Au Nanoparticles (NPs) on the Survival of Water Fleas. 2019 , 16,	5
244	[Use of nanoparticles as radiosensitizing agents in radiotherapy: State of play]. 2019 , 23, 917-921	6
243	Small Gold Quantum Probes for Drug-Free Cancer Theranostics. 2019 , 2, 1900051	2
242	Would Colloidal Gold Nanocarriers Present An Effective Diagnosis Or Treatment For Ischemic Stroke?. 2019 , 14, 8013-8031	89
241	Treating Polymicrobial Infections in Chronic Diabetic Wounds. 2019 , 32,	31
240	A redox-sensitive polymer-drug conjugate for tumor therapy: synthesis, properties and performance. 2019 , 6, 105413	
239	Targeting and non-targeting effects of nanomaterials on DNA: challenges and perspectives. 2019 , 18, 617-634	3
238	Overcoming the stability, toxicity, and biodegradation challenges of tumor stimuli-responsive inorganic nanoparticles for delivery of cancer therapeutics. 2019 , 16, 1095-1112	38
237	Toxicological Behavior of Gold Nanoparticles on Various Models: Influence of Physicochemical Properties and Other Factors. 2019 , 38, 357-384	55
236	Engineered nanomaterials: From their properties and applications, to their toxicity towards marine bivalves in a changing environment. 2019 , 178, 108683	32
235	Chitosan gold nanoparticles induce different ROS-dependent cell death modalities in leukemic cells. 2019 , 14, 7173-7190	20
234	Galactose:PEGamine coated gold nanoparticles adhere to filopodia and cause extrinsic apoptosis. 2019 , 1, 807-816	3
233	Organotypic and primary neural cultures as models to assess effects of different gold nanostructures on glia and neurons. 2019 , 13, 285-304	11

232	Interactions of gold and silica nanoparticles with plasma membranes get distinguished by the van der Waals forces: Implications for drug delivery, imaging, and theranostics. 2019 , 177, 433-439		9
231	Long-term biodistribution and toxicity of curcumin capped iron oxide nanoparticles after single-dose administration in mice. <i>Life Sciences</i> , 2019 , 230, 76-83	6.8	19
230	Safety and Toxicity Counts of Nanocosmetics. 2019 , 299-335		3
229	Biomedical applications of polyelectrolyte coated spherical gold nanoparticles. 2019 , 6, 11		27
228	Nanocosmetics. 2019 ,		4
227	A repertoire of biomedical applications of noble metal nanoparticles. 2019 , 55, 6964-6996		139
226	Gold-Nanoparticle-Assisted Plasmonic Photothermal Therapy Advances Toward Clinical Application. 2019 , 123, 15375-15393		154
225	Intrinsic Effects of Gold Nanoparticles on Oxygen-Glucose Deprivation/Reperfusion Injury in Rat Cortical Neurons. 2019 , 44, 1549-1566		10
224	Gold nanorods: from anisotropy to opportunity. An evolution update. <i>Nanomedicine</i> , 2019 , 14, 1203-1226	6.6	20
223	Cationic gold nanoparticles elicit mitochondrial dysfunction: a multi-omics study. <i>Scientific Reports</i> , 2019 , 9, 4366	4.9	31
222	Oxidation-Responsive Materials: Biological Rationale, State of the Art, Multiple Responsiveness, and Open Issues. 2019 , 40, e1800699		31
221	Gold Nanoparticles for Photothermal Cancer Therapy. <i>Frontiers in Chemistry</i> , 2019 , 7, 167	5	305
220	Sub lethal levels of platinum nanoparticle cures plasmid and in combination with carbapenem, curtails carbapenem resistant Escherichia coli. <i>Scientific Reports</i> , 2019 , 9, 5305	4.9	11
219	Tracing Size and Surface Chemistry-Dependent Endosomal Uptake of Gold Nanoparticles Using Surface-Enhanced Raman Scattering. 2019 , 35, 4020-4028		7
218	Femtosecond Spectroscopy of Au Hot-Electron Injection into TiO ₂ : Evidence for Au/TiO ₂ Plasmon Photocatalysis by Bactericidal Au Ions and Related Phenomena. 2019 , 9,		20
217	Antioxidant effects of gold nanoparticles on early stage of collagen-induced arthritis in rats. 2019 , 124, 32-37		17
216	A health concern regarding the protein corona, aggregation and disaggregation. 2019 , 1863, 971-991		48
215	Gold nanoparticles in combinatorial cancer therapy strategies. 2019 , 387, 299-324		110

214	Ultra-long silver nanowires induced mitotic abnormalities and cytokinetic failure in A549 cells. 2019 , 13, 543-557	5
213	Human primary macrophages scavenge AuNPs and eliminate it through exosomes. A natural shuttling for nanomaterials. 2019 , 137, 23-36	32
212	CYTOTOXICITY STUDY OF ULTRASMALL PHOSPHONIUM GOLD NANOPARTICLES USING PLANT AND ANIMAL CELL CULTURES. 2019 , 14, 165-175	4
211	Potential role of gold nanoparticles in cancer diagnosis and targeted drug delivery. 2019 , 267-286	
210	The Effect of Stabilisation Agents on the Immunomodulatory Properties of Gold Nanoparticles Obtained by Ultrasonic Spray Pyrolysis. 2019 , 12,	5
209	Epidermal Growth Factor Receptor and Its Role in Pancreatic Cancer Treatment Mediated by Nanoparticles. 2019 , 14, 9693-9706	17
208	A synchrotron-based infrared microspectroscopy study on the cellular response induced by gold nanoparticles combined with X-ray irradiations on F98 and U87-MG glioma cell lines. 2019 , 144, 6352-6364	2
207	Necrotic, apoptotic and autophagic cell fates triggered by nanoparticles. 2019 , 15, 4-33	150
206	Recent Advances in Subcellular Targeted Cancer Therapy Based on Functional Materials. 2019 , 31, e1802725	154
205	Engineered nanomaterials and oxidative stress: current understanding and future challenges. 2019 , 13, 74-80	17
204	Measurement of Oxidative Stress Using ESR Spectroscopy. 2019 , 73-81	4
203	Electron Spin Resonance Spectroscopy in Medicine. 2019 ,	1
202	Identifying Trends in Gold Nanoparticle Toxicity and Uptake: Size, Shape, Capping Ligand, and Biological Corona. 2019 , 4, 242-256	92
201	Comparison of the antioxidant property of acerola extracts with synthetic antioxidants using an in vivo method with yeasts. 2019 , 277, 698-705	37
200	Combination Strategies for Targeted Delivery of Nanoparticles for Cancer Therapy. 2019 , 191-219	5
199	Recent advances in the development of nanoparticles for multimodality imaging and therapy of cancer. 2020 , 40, 909-930	18
198	Toxicological assessment of nanoparticle interactions with the pulmonary system. 2020 , 14, 21-58	17
197	Nanomaterials in the Environment Acquire an "Eco-Corona" Impacting their Toxicity to Daphnia Magna-a Call for Updating Toxicity Testing Policies. 2020 , 20, e1800412	44

196	Understanding cellular interactions with nanomaterials: towards a rational design of medical nanodevices. 2020 , 31, 132002	42
195	Protein corona: Dr. Jekyll and Mr. Hyde of nanomedicine. 2020 ,	4
194	The Toxicity Phenomenon and the Related Occurrence in Metal and Metal Oxide Nanoparticles: A Brief Review From the Biomedical Perspective. 2020 , 8, 822	47
193	Molecular Mechanism of Cytotoxicity, Genotoxicity, and Anticancer Potential of Green Gold Nanoparticles on Human Liver Normal and Cancerous Cells. 2020 , 18, 1559325820912154	11
192	Mechanisms and pathogenesis underlying environmental chemical-induced necroptosis. 2020 , 27, 37488-37501	10
191	A concise review of metallic nanoparticles encapsulation methods and their potential use in anticancer therapy and medicine. 2020 , 154, 153-165	11
190	Gold Nanoparticle-Based Platforms for Diagnosis and Treatment of Myocardial Infarction. 2020 , 6, 6460-6477	9
189	Endoplasmic Reticulum Stress Provocation by Different Nanoparticles: An Innovative Approach to Manage the Cancer and Other Common Diseases. 2020 , 25,	12
188	Gold Nanoparticles as Radiosensitizers in Cancer Radiotherapy. 2020 , 15, 9407-9430	41
187	Effects of single and combined exposures of gold (nano versus ionic form) and gemfibrozil in a liver organ culture of <i>Sparus aurata</i> . 2020 , 160, 111665	2
186	Exposure to airborne gold nanoparticles: a review of current toxicological data on the respiratory tract. 2020 , 22, 1	4
185	Gold Nanoparticles as a Potent Radiosensitizer: A Transdisciplinary Approach from Physics to Patient. 2020 , 12,	42
184	Gold Nanoparticles Perturb Drug-Metabolizing Enzymes and Antioxidants in the Livers of Male Rats: Potential Impact on Drug Interactions. 2020 , 15, 5005-5016	3
183	Metal nanoparticles and medicinal plants: Present status and future prospects in cancer therapy. 2020 , 31, 662-673	3
182	Beyond gold nanoparticles cytotoxicity: Potential to impair metastasis hallmarks. 2020 , 157, 221-232	3
181	Small size gold nanoparticles enhance apoptosis-induced by cold atmospheric plasma via depletion of intracellular GSH and modification of oxidative stress. 2020 , 6, 83	24
180	Advances in Gold Nanoparticle-Based Combined Cancer Therapy. 2020 , 10,	26
179	Adaptive changes induced by noble-metal nanostructures and. 2020 , 10, 5649-5670	8


178	Molecular Mechanisms, Characterization Methods, and Utilities of Nanoparticle Biotransformation in Nanosafety Assessments. <i>Small</i> , 2020 , 16, e1907663	11	28
177	A Comparative Assessment of Mechanisms and Effectiveness of Radiosensitization by Titanium Peroxide and Gold Nanoparticles. 2020 , 10,		4
176	New organic/inorganic nano hybrids of targeted pullulan derivative/gold nanoparticles for effective drug delivery systems. 2020 , 162, 561-577		13
175	Gold nanoparticles in cancer diagnosis and therapy. 2020 , 43-58		3
174	The Rational Design and Biological Mechanisms of Nanoradiosensitizers. 2020 , 10,		15
173	Radiobiological Implications of Nanoparticles Following Radiation Treatment. 2020 , 37, 1900411		9
172	Targeting non-apoptotic cell death in cancer treatment by nanomaterials: Recent advances and future outlook. 2020 , 29, 102243		14
171	Study of the intracellular nanoparticle-based radiosensitization mechanisms in F98 glioma cells treated with charged particle therapy through synchrotron-based infrared microspectroscopy. 2020 , 145, 2345-2356		5
170	Montmorillonite, a natural biocompatible nanosheet with intrinsic antitumor activity. 2020 , 190, 110884		6
169	Systematic quantification of nanoscopic dose enhancement of gold nanoparticles in ion beams. 2020 , 65, 075008		6
168	Magnetic Nanoheterostructures. 2020 ,		3
167	Colorectal cancer stem cells: a review of targeted drug delivery by gold nanoparticles. 2020 , 10, 973-985		18
166	Inorganic Biomaterials for Regenerative Medicine. 2020 , 12, 5319-5344		69
165	Effects of Cetyltrimethylammonium Bromide on the Toxicity of Gold Nanorods Both In Vitro and In Vivo: Molecular Origin of Cytotoxicity and Inflammation. 2020 , 4, 1900799		28
164	Evidence for biological effects in the radiosensitization of leukemia cell lines by PEGylated gold nanoparticles. 2020 , 22, 1		2
163	15 Years of Small: Research Trends in Nanosafety. <i>Small</i> , 2020 , 16, e2000980	11	20
162	Spectroscopic analysis of the interaction between Co ₃ O ₄ nanoparticles and acid phosphatase. 2020 , 151, 637-647		3
161	Opportunities in the Synthesis and Design of Radioactive Thin Films and Nanoparticles. 2020 , 11, 4017-4028		1

160	The Basic Properties of Gold Nanoparticles and their Applications in Tumor Diagnosis and Treatment. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	80
159	Ultrasml gold nanoparticles in cancer diagnosis and therapy. 2020 , 10, 4944-4957		61
158	Current development in toxicity, clinical trials guidelines for regulatory aspects of breast cancer nanomedicines. 2020 , 351-369		1
157	Cell Nanoparticle Interactions: Toxicity and Safety Issues. 2021 , 207-242		3
156	Laser-induced optothermal response of gold nanoparticles: From a physical viewpoint to cancer treatment application. 2021 , 14, e202000161		17
155	Mechanisms of nanoparticle radiosensitization. 2021 , 13, e1656		11
154	Gold nanoparticles to enhance ophthalmic imaging. 2021 , 9, 367-390		15
153	Observing antimicrobial process with traceable gold nanoclusters. 2021 , 14, 1026-1033		17
152	A new mechanism for reduced cell adhesion: Adsorption dynamics of collagen on a nanoporous gold surface. 2021 , 119, 111461		1
151	. 2021 ,		0
150	Gold Nanozymes: From Concept to Biomedical Applications. 2020 , 13, 10		46
149	Involvement of Mitophagy in Aluminum Oxide Nanoparticle-Induced Impairment of Learning and Memory in Mice. 2021 , 39, 378-391		6
148	Curcumin reduced gold nanoparticles synergistically induces ROS mediated apoptosis in MCF-7 cancer cells. 2021 , 51, 601-613		3
147	Induced pluripotent stem cell-derived vascular networks to screen nano-bio interactions. 2021 , 6, 245-259		0
146	Synthesis and solution isomerization of water-soluble Au nanoclusters prepared by nuclearity conversion of [Au(PPh)Cl]Cl. 2021 , 13, 16809-16817		0
145	Recent Advancement in Nanotechnology-Based Drug Delivery System Against Viral Infections. 2021 , 22, 47		12
144	Therapeutic enhancement of radiation and immunomodulation by gold nanoparticles in triple negative breast cancer. 2021 , 22, 124-135		7
143	Reactive oxygen species (ROS): utilizing injectable antioxidative hydrogels and ROS-producing therapies to manage the double-edged sword. 2021 , 9, 6326-6346		6

142	Recent advances in nanotechnology-based cell toxicity evaluation approaches relevant to biofuels and bioenergy applications. 2021 , 713-735	
141	Multifunctional gold nanostar conjugates for tumor imaging and combined photothermal and chemotherapy in cancer. 2021 , 233-249	
140	Electroactive nanomaterials in the peripheral nerve regeneration. 2021 , 9, 6958-6972	12
139	The Effect of 6-gingerol on Growth Factors and Apoptosis Indices in Rats Exposed to Gold Nanoparticles.. 2021 , 12, 301-307	
138	Biogenic synthesis of gold nanoparticles using <i>Argemone mexicana</i> L. and their cytotoxic and genotoxic effects on human colon cancer cell line (HCT-15). 2021 , 19, 9	9
137	Therapeutic nanostructures and nanotoxicity. 2021 , 41, 1494-1517	4
136	Functionalized Silica Star-Shaped Nanoparticles and Human Mesenchymal Stem Cells: An In Vitro Model. 2021 , 11,	5
135	Selective Oxidation of Transient Organic Radicals in the Presence of Gold Nanoparticles. 2021 , 11,	3
134	Effective Intratumoral Retention of [Pd]AuPd Alloy Nanoparticles Embedded in Gel-Forming Liquids Paves the Way for New Nanobrachytherapy. 2021 , 10, e2002009	4
133	Gold nanoparticles as a drug delivery system for standard chemotherapeutics: A new lead for targeted pharmacological cancer treatments. 2021 , 11, e00685	15
132	Ingestion of bivalve droppings by benthic invertebrates may lead to the transfer of nanomaterials in the aquatic food chain. 2021 , 33,	1
131	Nanofiltration Using Graphene-Epoxy Filter Media Actuated by Surface Acoustic Waves. 2021 , 15,	4
130	The Pro-Apoptotic Effect of Silica Nanoparticles Depends on Their Size and Dose, as Well as the Type of Glioblastoma Cells. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3 2
129	Toxicity Risks of Nanomaterials Used in the Building Construction Materials. 2021 , 1, 26-43	0
128	Biochemical assessment of the neurotoxicity of gold nanoparticles functionalized with colorectal cancer-targeting peptides in a rat model. 2021 , 40, 1962-1973	1
127	Influence of Physicochemical Characteristics and Stability of Gold and Silver Nanoparticles on Biological Effects and Translocation across an Intestinal Barrier-A Case Study from In Vitro to In Silico. 2021 , 11,	3
126	Theranostic Gold Nanoclusters for NIR-II Imaging and Photodynamic Therapy. 2021 , 37, 934-942	3
125	Gold nanoparticles: synthesis, physicochemical properties and therapeutic applications in cancer. 2021 , 26, 1284-1292	25

124	Synergistic integration of metal nanoclusters and biomolecules as hybrid systems for therapeutic applications. 2021 , 11, 1175-1199		7
123	Evaluation of the Anticancer Activity of Phytomolecules Conjugated Gold Nanoparticles Synthesized by Aqueous Extracts of (Ginger) and L. Seeds (Black Cumin). 2021 , 14,		4
122	Toxicological Profile of Plasmonic Nanoparticles in Zebrafish Model. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
121	The surface-dependent biological effect of protein-gold nanoclusters on human immune system mimetic cells. 2021 , 620, 126569		3
120	Recent advances in essential oils-based metal nanoparticles: A review on recent developments and biopharmaceutical applications. 2021 , 333, 115951		13
119	Design and Encapsulation of Immunomodulators onto Gold Nanoparticles in Cancer Immunotherapy. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	5
118	Toxicity of gold nanoparticles (AuNPs): A review. 2021 , 26, 100991		39
117	Emerging strategies in developing multifunctional nanomaterials for cancer nanotheranostics. 2021 , 178, 113907		10
116	Targeted and Non-Targeted Mechanisms for Killing Hypoxic Tumour Cells-Are There New Avenues for Treatment?. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	
115	Advances in Nanomaterials for Injured Heart Repair. 2021 , 9, 686684		
114	Nanotechnology in Tumor Biomarker Detection: The Potential of Liganded Nanoclusters as Nonlinear Optical Contrast Agents for Molecular Diagnostics of Cancer. 2021 , 13,		2
113	Gold Nanoparticles: Multifaceted Roles in the Management of Autoimmune Disorders. 2021 , 11,		4
112	Using Gold-Nanorod-Filled Mesoporous Silica Nanobeads for Enhanced Radiotherapy of Oral Squamous Carcinoma. 2021 , 11,		2
111	A Promising, Novel Radiosensitizer Nanodrug Complex for Oral Cavity Cancer: Cetuximab and Cisplatin-Conjugated Gold Nanoparticles. 2021 , 38, 278-286		1
110	The effects of surface functionality and size of gold nanoparticles on neuronal toxicity, apoptosis, ROS production and cellular/suborgan biodistribution. 2021 , 128, 112308		5
109	Gold nanoparticles produce transient reactive gliosis in the adult brain. 2021 , 170, 76-86		2
108	Gold nanoparticles meet medical radionuclides. 2021 , 100-101, 61-90		3
107	Formulating RALA/Au nanocomplexes to enhance nanoparticle internalisation efficiency, sensitising prostate tumour models to radiation treatment. 2021 , 19, 279		0

106	Red blood cells under externally induced stressors probed by micro-Raman spectroscopy. 2022 , 141-165	
105	Nanomaterial Interaction and Cellular Damage: Involvement of Various Signalling Pathways. <i>Nanotechnology in the Life Sciences</i> , 2021 , 431-448	1.1
104	The role of size and nature in nanoparticle binding to a model lung membrane: an atomistic study.	0
103	Health Effects of Nanoparticles.	1
102	Application of Nanoparticles in Cancer Treatment. 37-65	3
101	Nanomedicine: The Medicine of Tomorrow. 2012 , 1-26	4
100	Introduction to Nanoparticles and Nanotoxicology. 2016 , 1-18	4
99	The current perspectives of nanoparticles in cellular and organ-specific drug targeting in biological system. 2018 , 105-154	1
98	Emerging plant-based anti-cancer green nanomaterials in present scenario. 2019 , 87, 291-318	31
97	Reactive Oxygen Species-Related Nanoparticle Toxicity in the Biomedical Field. 2020 , 15, 115	132
96	Gold Nanoparticles as Targeted Delivery Systems and Theranostic Agents in Cancer Therapy. 2019 , 26, 6493-6513	26
95	Nanoparticle-assisted Therapeutic Strategies for Effective Cancer Management. 2020 , 16, 42-50	4
94	The Assessment of Toxicity Characteristics of Cellular Uptake of Paramagnetic Nanoparticles as a New Magnetic Resonance Imaging Contrast Agent. 2019 , 18, 2083-2092	1
93	Redox Status, Hematological Parameters as Well Liver and Kidney Function Indicators in Blood of Chickens Receiving Gold Nanoparticles. 2019 , 19, 453-468	1
92	Safety Evaluation Study of Nanomaterials Aimed at Promoting Their Acceptance by Society. 2011 , 33, 21-26	1
91	Applications of Gold Nanoparticles in Cancer. 2018 , 780-808	3
90	Histological Effects of Gold Nanoparticles on the Lung Tissue of Adult Male Albino Rats. 2018 , 6, 116-122	5
89	Looking for Biological Protectors against Adverse Health Effects of Some Nanoparticles that Can Pollute Workplace and Ambient Air (A Summary of Authors' Experimental Results). 2017 , 08, 844-866	7

88	Cytotoxic activity of biosynthesized gold nanoparticles with an extract of the red seaweed <i>Corallina officinalis</i> on the MCF-7 human breast cancer cell line. 2014 , 15, 4311-7		84
87	Multi-scale Monte Carlo simulations of gold nanoparticle-induced DNA damages for kilovoltage X-ray irradiation in a xenograft mouse model using TOPAS-nBio. 2021 , 12,		1
86	Advances in Colorimetric Assay Based on AuNPs Modified by Proteins and Nucleic Acid Aptamers. 2021 , 9, 281		4
85	Biocompatibility and Cytotoxicity of Gold Nanoparticles: Recent Advances in Methodologies and Regulations. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	11
84	A Review on Drug Delivery System for Tumor Therapy. <i>Frontiers in Pharmacology</i> , 2021 , 12, 735446	5.6	4
83	Cytotoxicity of Gold, Silver and Copper Nanoparticles and Their Applications. 2013 , 03, 24-34		
82	Nuclear Imaging with Nanoparticles. 2014 , 46-89		
81	Effect of Gold Nanoparticles on Proliferative Properties of SPEV Cells. 2015 , 207-214		
80	Introduction in Clinical Nanomedicine. 2014 , 1-37		
79	Infrared LASER mediated antibacterial activity and biocompatibility of PLA-tetracycline complexes coated gold nanorod-titania nanotubes. 2015 , 42, 307		1
78	Import and Export of Gold Nanoparticles: Exchange Rate in Cancer Cells and Fibroblasts.		
77	Microbial Nanotechnology. 2017 , 102-131		
76	Applications of Gold Nanoparticles in Cancer. 2017 , 194-229		
75	Understanding Toxicity of Nanomaterials in Biological Systems. 2017 , 1533-1557		
74	Understanding Toxicity of Nanomaterials in Biological Systems. 2017 , 1492-1516		
73	Titania nanotube template based synthesis of gold nanotubes and their antibacterial activity. 2018 , 45, 35-44		
72	The nervous system is the major target for Gold nanoparticles: Evidence from RNA sequencing data of <i>C. elegans</i> .		
71	 2019 , 14, 81-92		

- 70 Toxicity of Colloidal Alloy Nanoparticles. **2020**, 433-449
- 69 Programmed cell death mechanisms and nanoparticle toxicity. **2020**, 229-264
- 68 Persistence, Toxicity, and Biodegradation of Gold- and Iron Oxide-Based Nanoparticles in the Living Systems. **2020**, 447-478
- 67 Nanopharmaceuticals: Healthcare Applications and Safety Evaluations. **2021**, 265-288 1
- 66 Microbial Gold Nanoparticles and Their Biomedical Applications. **2021**, 303-336
- 65 Understanding Toxicity of Nanomaterials in Biological Systems. 403-427
- 64 BIOACTIVE NANOPARTICULES SYNTHESIZED VIA BIOGENIC.
- 63 In Vitro Cytotoxicity of Folate-Silica-Gold Nanorods on Mouse Acute Lymphoblastic Leukemia and Spermatogonial Cells. **2019**, 21, 14-26 3
- 62 Familiar and novel reproductive endocrine disruptors: xenoestrogens, dioxins and nanoparticles. **2014**, 7, 111-122 4
- 61 Novel agents and treatment techniques to enhance radiotherapeutic outcomes in carcinoma of the uterine cervix. **2016**, 4, 49 1
- 60 Dosimetry and Radioenhancement Comparison of Gold Nanoparticles in Kilovoltage and Megavoltage Radiotherapy using MAGAT Polymer Gel Dosimeter. **2019**, 9, 199-210 3
- 59 Cytotoxic Effects of Coated Gold Nanoparticles on PC12 Cancer Cell. **2018**, 7, e1110
- 58 Growth-Promoting Gold Nanoparticles Decrease Stress Responses in Arabidopsis Seedlings.. **2021**, 11, 0
- 57 Osteoarthritis complications and the recent therapeutic approaches. **2021**, 29, 1653-1667 0
- 56 Nanotechnology for Drug Delivery and Cancer Therapy. **2022**, 338-362
- 55 Syntheses of metal oxide-gold nanocomposites for biological applications. **2022**, 4, 100288 1
- 54 A new discovery of polystyrene microplastics toxicity: The injury difference on bladder epithelium of mice is correlated with the size of exposed particles.. **2022**, 821, 153413 1
- 53 Advances in smart mesoporous carbon nanoplatfoms for photothermal-enhanced synergistic cancer therapy. **2022**, 435, 134886 9

52	Formulation of Polymeric Nanoparticles Loaded with Cetuximab Downregulate p21 & Stathmin-1 Gene Expression in Cancer Cell Lines.		
51	Intracellular reactive oxygen species trigger mitochondrial dysfunction and apoptosis in cadmium telluride quantum dots-induced liver damage.. 2022 , 25, 100392		0
50	Gold nanostructures: synthesis, properties, and neurological applications.. 2022 ,		7
49	Light-responsive nanomaterials with pro-oxidant and anti-oxidant activity. 1		1
48	Comparative In Vitro Cytotoxicity Study of Carbon Dot-Based Organometallic Nanoconjugates: Exploration of Their Cell Proliferation, Uptake, and Localization in Cancerous and Normal Cells.. 2022 , 2022, 3483073		0
47	Efficacy and Immune Response Elicited by Gold Nanoparticle- Based Nanovaccines against Infectious Diseases.. 2022 , 10,		2
46	Acid-Responsive Aggregated Gold Nanoparticles for Radiosensitization and Synergistic Chemoradiotherapy in the Treatment of Esophageal Cancer.. <i>Small</i> , 2022 , e2200115	11	5
45	PEG-4000 formed polymeric nanoparticles loaded with cetuximab downregulate p21 & stathmin-1 gene expression in cancer cell lines.. <i>Life Sciences</i> , 2022 , 120403	6.8	2
44	Re-directing nanomedicines to the spleen: A potential technology for peripheral immunomodulation.. <i>Journal of Controlled Release</i> , 2022 ,	11.7	1
43	Effects of the intranasal application of gold nanoparticles on the pulmonary tissue after acute exposure to industrial cigarette smoke. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021 ,	3.5	0
42	C-X-C Chemokine Receptor Type 4-Targeted Imaging in Glioblastoma Multiforme Using Cu-Radiolabeled Ultrasmall Gold Nanoclusters.. <i>ACS Applied Bio Materials</i> , 2021 ,	4.1	0
41	Nanogold-based materials in medicine: from their origins to their future. <i>Nanomedicine</i> , 2021 ,	5.6	3
40	Novel Organic and Inorganic Nanoparticles as a Targeted Drug Delivery Vehicle in Cancer Treatment. <i>Nanotechnology in the Life Sciences</i> , 2022 , 117-161	1.1	0
39	Surface Functionalization of Organosilica Nanoparticles With Au Nanoparticles Inhibits Cell Proliferation and Induces Cell Death in 4T1 Mouse Mammary Tumor Cells for DNA and Mitochondrial-Synergized Damage in Radiotherapy. <i>Frontiers in Chemistry</i> , 2022 , 10,	5	1
38	Biochar nanoparticles: interactions with and impacts on soil and water microorganisms. 2022 , 139-154		
37	Ecotoxicology and Toxicology of Metal-Based Nanoparticles. 2022 , 281-307		1
36	Gold Nanoparticle-Based Therapy for Muscle Inflammation and Oxidative Stress. <i>Journal of Inflammation Research</i> , Volume 15, 3219-3234	4.8	1
35	Nanotechnology-Based Diagnostic and Therapeutic Strategies for Neuroblastoma. <i>Frontiers in Pharmacology</i> , 13,	5.6	0

34	A Comprehensive Overview of Nanotechnology in Sustainable Agriculture. <i>Journal of Biotechnology</i> , 2022 ,	3.7	3
33	Intercomparison of radiosensitization induced by gold and iron oxide nanoparticles in human glioblastoma cells irradiated by 6 MV photons. <i>Scientific Reports</i> , 2022 , 12,	4.9	1
32	Oxidative Damage to Mitochondria Enhanced by Ionising Radiation and Gold Nanoparticles in Cancer Cells. <i>International Journal of Molecular Sciences</i> , 2022 , 23, 6887	6.3	2
31	Recent trends in the application of nanoparticles in cancer therapy: The involvement of oxidative stress. <i>Journal of Controlled Release</i> , 2022 , 348, 287-304	11.7	1
30	Multimodal Potentials of Gold Nanoparticles for Bone Tissue Engineering and Regenerative Medicine: Avenues and Prospects. <i>Small</i> , 2201462	11	1
29	Pre-clinical 2D and 3D toxicity response to a panel of nanomaterials; comparative assessment of NBM-induced liver toxicity. <i>Drug Delivery and Translational Research</i> ,	6.2	0
28	Genetic Diseases and Nanotechnology-Based Theranostics. 2022 , 277-302		
27	Gold Nanoparticles Contact with Cancer Cell: A Brief Update. <i>International Journal of Molecular Sciences</i> , 2022 , 23, 7683	6.3	2
26	Apoptotic and Antioxidant Activity of Gold Nanoparticles Synthesized Using Marine Brown Seaweed: An In Vitro Study. <i>BioMed Research International</i> , 2022 , 2022, 1-9	3	0
25	Nanoparticles in the diagnosis and treatment of vascular aging and related diseases. <i>Signal Transduction and Targeted Therapy</i> , 2022 , 7,	21	4
24	Metal nanoparticles: biomedical applications and their molecular mechanisms of toxicity. <i>Chemical Papers</i> ,	1.9	1
23	Differential Radiosensitizing Effect of 50 nm Gold Nanoparticles in Two Cancer Cell Lines. 2022 , 11, 1193		
22	Eradication of KRAS mutant colorectal adenocarcinoma by PEGylated gold nanoparticles-cetuximab conjugates through ROS-dependent apoptosis. 2022 , 653, 129890		
21	Nanozyme-based pollutant sensing and environmental treatment: Trends, challenges, and perspectives. 2023 , 854, 158771		0
20	Toxicology, Stability, and Recycling of Organic-Inorganic Nanohybrids. 2022 , 485-497		0
19	NANOCZĘTKI ŻŁOTA W DIAGNOSTYCE I TERAPII NOWOTWORÓW WYBRANE ZASTOSOWANIA. 2020 , 18, 1-9		0
18	Biological Response of Human Cancer Cells to Ionizing Radiation in Combination with Gold Nanoparticles. 2022 , 14, 5086		0
17	A Nanomedicine Structure-Activity Framework for Research, Development, and Regulation of Future Cancer Therapies.		1

16	Effect of different physical factors on the synthesis of spherical gold nanoparticles towards cost-effective biomedical applications.	0
15	Metallic nanoscale-knife application in cancer theranostics. 2023 , 4, 313-336	0
14	Novel Strategies for Tumor Radiosensitization Mediated by Multifunctional Gold-Based Nanomaterials.	0
13	Advanced theragnostics for the central nervous system (CNS) and neurological disorders using functional inorganic nanomaterials. 2023 , 192, 114636	0
12	Investigation of effects of transferrin-conjugated gold nanoparticles on hippocampal neuronal activity and anxiety behavior in mice.	0
11	Use, exposure and omics characterisation of potential hazard in nanomaterials. 2023 , 17, 100341	1
10	Gold nanoparticles inhibit tumor growth via targeting the Warburg effect in a c-Myc-dependent way. 2022 ,	0
9	Toxic risk assessment of engineered nanoparticles used in ink formulations. 2023 , 159-194	0
8	Gold Nanoparticles Induced Size Dependent Cytotoxicity on Human Alveolar Adenocarcinoma Cells by Inhibiting the Ubiquitin Proteasome System. 2023 , 15, 432	1
7	Review of Photoresponsive Plasmonic Nanoparticles That Produce Reactive Chemical Species for Photodynamic Therapy of Cancer and Bacterial Infections. 2023 , 6, 1508-1521	0
6	LHRH conjugated gold nanoparticles assisted efficient ovarian cancer targeting evaluated via spectral photon-counting CT imaging: a proof-of-concept research.	0
5	Polyethyleneimine/polyethylene glycol conjugated gold nanoparticles as nanoscale positive/negative controls in nanotoxicology: testing in frog embryo teratogenesis assay, <i>Xenopus</i> and mammalian tissue culture system. 2023 , 17, 94-115	0
4	Effects of Au States in Thiol-Organosilica Nanoparticles on Enzyme-like Activity for X-ray Sensitizer Application: Focus on Reactive Oxygen Species Generation in Radiotherapy. 2023 , 8, 9569-9582	0
3	A mechanistic study of gold nanoparticles catalysis of O ₂ reduction by ascorbate and hydroethidine, investigating reactive oxygen species reactivity. 2023 , 13, 8557-8563	0
2	Gold Nanoparticles Reduce Food Sensation in <i>Caenorhabditis elegans</i> via the Voltage-Gated Channel EGL-19. Volume 18, 1659-1676	0
1	Synthesis of single-walled carbon nanotubes functionalized with platinum nanoparticles to sense breast cancer cells in 4T1 model to X-ray radiation. 2023 , 190,	0