Amit Kunwar

List of Publications by Year
in descending order

89 papers	2,754 citations	201674 27 h-index	197818 49 g-index
92 all docs	92 docs citations	92 times ranked	3998 citing authors

#	Article	IF	Citations
1	Balancing loading, cellular uptake, and toxicity of gelatinâ€pluronic nanocomposite for drug delivery: Influence of <scp>HLB</scp> of pluronic. Journal of Biomedical Materials Research - Part A, 2022, 110, 304-315.	4.0	9
2	3,3'-Diselenodipropionic acid (DSePA) forms 1:1 complex with Hg (II) and prevents oxidative stress in cultured cells and mice model. Journal of Inorganic Biochemistry, 2022, 226, 111638.	3.5	1
3	La(<scp>iii</scp>)â€"curcumin-functionalized gold nanocomposite as a red light-activatable mitochondria-targeting PDT agent. Inorganic Chemistry Frontiers, 2022, 9, 686-701.	6.0	8
4	PEGylated silicon oxide nanocomposites with blue photoluminescence prepared by a rapid electron-beam irradiation approach: Applications in IFE-based Cr (VI) sensing and cell-imaging. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 640, 128483.	4.7	7
5	Highly stable spherical shaped and blue photoluminescent cyclodextrin-coated tellurium nanocomposites prepared by in situ generated solvated electrons: a rapid green method and mechanistic and anticancer studies. Dalton Transactions, 2022, 51, 6366-6377.	3.3	2
6	Efficacy of Propyl Selenoethers Against Peroxyl Radical Induced Protein Damage: Effect of Functional Group Substitution. Current Chemical Biology, 2022, 16, 54-60.	0.5	0
7	Gelatin-lecithin-F127 gel mediated self-assembly of curcumin vesicles for enhanced wound healing. International Journal of Biological Macromolecules, 2022, 210, 403-414.	7.5	11
8	3,3â€²-Diselenodipropionic acid (DSePA): A redox active multifunctional molecule of biological relevance. Biochimica Et Biophysica Acta - General Subjects, 2021, 1865, 129768.	2.4	20
9	A pH-controlled one-pot synthesis of gold nanostars by using a zwitterionic protein hydrolysate (gelatin): an enhanced radiosensitization of cancer cells. New Journal of Chemistry, 2021, 45, 13271-13279.	2.8	4
10	Redox reactions of organoselenium compounds: Implication in their biological activity. Free Radical Research, 2021, 55, 873-886.	3.3	12
11	Iron(III) Complex-Functionalized Gold Nanocomposite as a Strategic Tool for Targeted Photochemotherapy in Red Light. Inorganic Chemistry, 2021, 60, 6283-6297.	4.0	6
12	Electron beam mediated synthesis of photoluminescent organosilicon nanoparticles in TX-100 micellar medium and their prospective applications. Journal of Molecular Liquids, 2021, 334, 116072.	4.9	7
13	Micellar solubilization of Lavender oil in aqueous P85/P123 systems: Investigating the associated micellar structural transitions, therapeutic properties and existence of double cloud points. Journal of Molecular Liquids, 2021, 338, 116643.	4.9	4
14	3,3â€²-Diselenodipropionic acid (DSePA) induces reductive stress in A549Âcells triggering p53-independent apoptosis: A novel mechanism for diselenides. Free Radical Biology and Medicine, 2021, 175, 1-17.	2.9	15
15	Nontoxic photoluminescent tin oxide nanoparticles for cell imaging: deep eutectic solvent mediated synthesis, tuning and mechanism. Materials Advances, 2021, 2, 4303-4315.	5.4	6
16	Electrostatically bound lanreotide peptide - gold nanoparticle conjugates for enhanced uptake in SSTR2-positive cancer cells. Materials Science and Engineering C, 2020, 117, 111272.	7.3	5
17	Glutathione-Functionalized Organosilicon Oxide Nanoparticles for Bioimaging and Forensics. ACS Applied Nano Materials, 2020, 3, 5123-5138.	5.0	14
18	2,2â€²-Dipyridyl diselenide (Py2Se2) induces G1 arrest and apoptosis in human lung carcinoma (A549) cells through ROS scavenging and reductive stress. Metallomics, 2020, 12, 1253-1266.	2.4	12

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19	Structural and therapeutic properties of curcumin solubilized pluronic F127 micellar solutions and hydrogels. Journal of Molecular Liquids, 2020, 314, 113591.	4.9	50
20	Tuning the pharmacokinetics and efficacy of irinotecan (IRI) loaded gelatin nanoparticles through folate conjugation. International Journal of Pharmaceutics, 2020, 586, 119522.	5.2	13
21	Preparation of a size selective nanocomposite through temperature assisted co-assembly of gelatin and pluronic F127 for passive targeting of doxorubicin. Biomaterials Science, 2020, 8, 4251-4265.	5.4	14
22	Synthesis and anti-proliferative activities of amine capped Pd and Pt macrocycles of 4,4â€²-dipyridylselenides. New Journal of Chemistry, 2020, 44, 7329-7337.	2.8	12
23	Oneâ€Pot, Rapid and Facile Synthesis of Thioglycolic Acid capped CdSe quantum dots: Tuning of Properties, Mechanistic Investigations by Cyclic Voltammetry and Cytotoxicity Studies. ChemistrySelect, 2020, 5, 7743-7752.	1.5	1
24	Supramolecular Nanorods of (N-Methylpyridyl) Porphyrin With Captisol: Effective Photosensitizer for Anti-bacterial and Anti-tumor Activities. Frontiers in Chemistry, 2019, 7, 452.	3.6	38
25	Clinical scale synthesis of intrinsically radiolabeled and cyclic RGD peptide functionalized 198Au nanoparticles for targeted cancer therapy. Nuclear Medicine and Biology, 2019, 72-73, 1-10.	0.6	31
26	Interaction of a Model Hydrophobic Drug Dimethylcurcumin with Albumin Nanoparticles. Protein Journal, 2019, 38, 649-657.	1.6	6
27	Oral administration of 3,3â€²-diselenodipropionic acid prevents thoracic radiation induced pneumonitis in mice by suppressing NF-kB/IL-17/G-CSF/neutrophil axis. Free Radical Biology and Medicine, 2019, 145, 8-19.	2.9	19
28	Protein: a versatile biopolymer for the fabrication of smart materials for drug delivery. Journal of Chemical Sciences, 2019, 131, 1.	1.5	10
29	Preparation of albumin nanoparticles: Optimum size for cellular uptake of entrapped drug (Curcumin). Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 567, 86-95.	4.7	34
30	Highly facile and rapid one-pot synthetic protocol for the formation of Se nanoparticles at ambient conditions with controlled phase and morphology: role of starch and cytotoxic studies. Materials Research Express, 2019, 6, 015029.	1.6	4
31	Passive and Active Drug Targeting: Role of Nanocarriers in Rational Design of Anticancer Formulations. Current Pharmaceutical Design, 2019, 25, 3034-3056.	1.9	43
32	Micellar structural transitions and therapeutic properties in tea tree oil solubilized pluronic P123 solution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 537, 478-484.	4.7	12
33	Mechanism of radioprotection by dihydroxy-1-selenolane (DHS): Effect of fatty acid conjugation and role of glutathione peroxidase (GPx). Biochimie, 2018, 144, 122-133.	2.6	9
34	L-Cysteine Capped CdSe Quantum Dots Synthesized by Photochemical Route. Journal of Nanoscience and Nanotechnology, 2018, 18, 3419-3426.	0.9	7
35	Toxicological safety evaluation of 3,3â€²-diselenodipropionic acid (DSePA), a pharmacologically important derivative of selenocystine. Regulatory Toxicology and Pharmacology, 2018, 99, 159-167.	2.7	11
36	Toxicity and Antigenotoxic Effect of Hispolon Derivatives: Role of Structure in Modulating Cellular Redox State and Thioredoxin Reductase. ACS Omega, 2018, 3, 5958-5970.	3.5	12

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37	Fluorescence â€œoffâ€• and â€œonâ€• signalling of esculetin in the presence of copper and thiol: a possible implication in cellular thiol sensing. Photochemical and Photobiological Sciences, 2018, 17, 1197-1205.	2.9	11
38	Effect of Low-Dose Selenium Supplementation on the Genotoxicity, Tissue Injury and Survival of Mice Exposed to Acute Whole-Body Irradiation. Biological Trace Element Research, 2017, 179, 130-139.	3.5	10
39	Heat-induced solubilization of curcumin in kinetically stable pluronic P123 micelles and vesicles: An exploit of slow dynamics of the micellar restructuring processes in the aqueous pluronic system. Colloids and Surfaces B: Biointerfaces, 2017, 152, 176-182.	5.0	40
40	Cellular evaluation of diselenonicotinamide (DSNA) as a radioprotector against cell death and DNA damage. Metallomics, 2017, 9, 715-725.	2.4	23
41	Stimuliâ€Responsive Cucurbit[7]urilâ€Mediated BSA Nanoassembly for Uptake and Release of Doxorubicin. Chemistry - an Asian Journal, 2017, 12, 122-129.	3.3	49
42	Study of polymorphism in 2, 2â€²-diselenobis(3-pyridinol). Journal of Organometallic Chemistry, 2017, 852, 1-7.	1.8	8
43	Facile Oneâ€Pot Synthesis of Intrinsically Radiolabeled ⁶⁴Cuâ€Human Serum Albumin Nanocomposite for Cancer Targeting. ChemistrySelect, 2017, 2, 8043-8051.	1.5	5
44	Saccharide capped CdSe quantum dots grown via electron beam irradiation. Materials Chemistry and Physics, 2017, 199, 609-615.	4.0	11
45	Tuning the binding, release and cytotoxicity of hydrophobic drug by Bovine Serum Albumin nanoparticles: Influence of particle size. Colloids and Surfaces B: Biointerfaces, 2017, 158, 682-688.	5.0	42
46	Industrial-Scale Synthesis of Intrinsically Radiolabeled ⁶⁴CuS Nanoparticles for Use in Positron Emission Tomography (PET) Imaging of Cancer. Industrial & Engineering Chemistry Research, 2016, 55, 12407-12419.	3.7	19
47	Curcumin and Its Role in Chronic Diseases. Advances in Experimental Medicine and Biology, 2016, 928, 1-25.	1.6	22
48	Dihydroxyselenolane (DHS) supplementation improves survival following whole-body irradiation (WBI) by suppressing tissue-specific inflammatory responses. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2016, 807, 33-46.	1.7	11
49	Degradation of Peroxynitrite by Simple, Recyclable Selenolanes. Bulletin of the Chemical Society of Japan, 2016, 89, 490-497.	3.2	5
50	Pluronic stabilized Fe₃O₄ magnetic nanoparticles for intracellular delivery of curcumin. RSC Advances, 2016, 6, 98674-98681.	3.6	39
51	Biodistribution and Pharmacokinetic Study of 3,3â€² Diseleno Dipropionic Acid (DSePA), A Synthetic Radioprotector, in Mice. European Journal of Drug Metabolism and Pharmacokinetics, 2016, 41, 839-844.	1.6	13
52	Alkyl chain modulated cytotoxicity and antioxidant activity of bioinspired amphiphilic selenolanes. Toxicology Research, 2016, 5, 434-445.	2.1	17
53	Diselenodipropionic acid as novel selenium compound for lung radiotherapy. , 2015, , 51-52.		0
54	Mimicking the Lipid Peroxidation Inhibitory Activity of Phospholipid Hydroperoxide Glutathione Peroxidase (GPx4) by Using Fatty Acid Conjugates of a Water-Soluble Selenolane. Molecules, 2015, 20, 12364-12375.	3.8	13

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55	DNA damage at respiratory distress, but not acute time-points, correlates with tissue fibrosis following thoracic radiation exposure in mice. International Journal of Radiation Biology, 2015, 91, 360-367.	1.8	9
56	Fatty Acid Conjugates of Waterâ€Soluble (Â±)â€transâ€Selenolaneâ€3,4â€diol: Effects of Alkyl Chain Length on the Antioxidant Capacity. ChemBioChem, 2015, 16, 1226-1234.	2.6	15
57	Acute adaptive immune response correlates with late radiation-induced pulmonary fibrosis in mice. Radiation Oncology, 2015, 10, 45.	2.7	49
58	Comparative cytotoxicity and antioxidant evaluation of biologically active fatty acid conjugates of water soluble selenolanes in cells. , 2015, , 49-50.		0
59	Differential response of DU145 and PC3 prostate cancer cells to ionizing radiation: Role of reactive oxygen species, GSH and Nrf2 in radiosensitivity. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 485-494.	2.4	97
60	Cyto-genotoxicity assessment of potential radioprotector, 3,3â€²-diselenodipropionic acid (DSePA) in Chinese Hamster Ovary (CHO) cells and human peripheral blood lymphocytes. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2014, 774, 8-16.	1.7	22
61	Basal levels of glutathione peroxidase correlate with onset of radiation induced lung disease in inbred mouse strains. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2014, 307, L597-L604.	2.9	10
62	Current Developments on Synthesis, Redox Reactions and Biochemical Studies of Selenium Antioxidants. Current Chemical Biology, 2013, 7, 37-46.	0.5	14
63	A Selenocysteine Derivative Therapy Affects Radiation-Induced Pneumonitis in the Mouse. American Journal of Respiratory Cell and Molecular Biology, 2013, 49, 654-661.	2.9	21
64	Selenium compounds as antioxidants and radioprotectors. , 2013, , 37-38.		3
65	Melanin, a promising radioprotector: Mechanisms of actions in a mice model. Toxicology and Applied Pharmacology, 2012, 264, 202-211.	2.8	84
66	Radioprotection by quercetin-3-O-rutinoside, a flavonoid glycoside â€“ A cellular and mechanistic approach. Journal of Functional Foods, 2012, 4, 924-932.	3.4	23
67	Dimethoxycurcumin-induced cell death in human breast carcinoma MCF7 cells: evidence for pro-oxidant activity, mitochondrial dysfunction, and apoptosis. Archives of Toxicology, 2012, 86, 603-614.	4.2	51
68	Inactivation of A. ochraceus Spores and Detoxification of Ochratoxin A in Coffee Beans by Gamma Irradiation. Journal of Food Science, 2012, 77, T44-51.	3.1	23
69	Interaction of a Curcumin Analogue Dimethoxycurcumin with DNA. Chemical Biology and Drug Design, 2011, 77, 281-287.	3.2	43
70	POTENT RADICAL SCAVENGING ABILITY OF SUNPHENON: A GREEN TEA EXTRACT. Journal of Food Biochemistry, 2011, 35, 596-612.	2.9	5
71	Protective effects of selenocystine against Î³-radiation-induced genotoxicity in Swiss albino mice. Radiation and Environmental Biophysics, 2011, 50, 271-280.	1.4	28
72	Anti-apoptotic, anti-inflammatory, and immunomodulatory activities of 3,3â€²-diselenodipropionic acid in mice exposed to whole body Î³-radiation. Archives of Toxicology, 2011, 85, 1395-1405.	4.2	31

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73	Anti-hemolytic and Peroxyl Radical Scavenging Activity of Organoselenium Compounds: An In Vitro Study. Biological Trace Element Research, 2011, 140, 127-138.	3.5	17
74	Differential antioxidant/pro-oxidant activity of dimethoxycurcumin, a synthetic analogue of curcumin. Free Radical Research, 2011, 45, 959-965.	3.3	44
75	In vivo radioprotection studies of 3,3â€²-diselenodipropionic acid, a selenocystine derivative. Free Radical Biology and Medicine, 2010, 48, 399-410.	2.9	75
76	Antibacterial and ulcer healing effects of organoselenium compounds in naproxen induced and Helicobacter pylori infected Wistar rat model. Journal of Trace Elements in Medicine and Biology, 2010, 24, 263-270.	3.0	16
77	Anti-unlcer and antimicrobial activities of sodium selenite against Helicobacter pylori: In vitro and in vivo evaluation. Scandinavian Journal of Infectious Diseases, 2010, 42, 266-274.	1.5	19
78	Curcumin mediates time and concentration dependent regulation of redox homeostasis leading to cytotoxicity in macrophage cells. European Journal of Pharmacology, 2009, 611, 8-16.	3.5	49
79	InÂvitro radioprotection studies of organoselenium compounds: differences between mono- and diselenides. Radiation and Environmental Biophysics, 2009, 48, 379-384.	1.4	39
80	Differential Free Radical Scavenging Activity and Radioprotection of Caesalpinia Digyna Extracts and its Active Constituent. Journal of Radiation Research, 2009, 50, 425-433.	1.6	25
81	Concentration dependent antioxidant/pro-oxidant activity of curcumin. Chemico-Biological Interactions, 2008, 174, 134-139.	4.0	164
82	Quantitative cellular uptake, localization and cytotoxicity of curcumin in normal and tumor cells. Biochimica Et Biophysica Acta - General Subjects, 2008, 1780, 673-679.	2.4	298
83	Correlating the GPx Activity of Selenocystine Derivatives with One-Electron Redox Reactions. Phosphorus, Sulfur and Silicon and the Related Elements, 2008, 183, 1018-1025.	1.6	19
84	Effect of Curcumin and Curcumin Copper Complex (1:1) on Radiation-induced Changes of Anti-oxidant Enzymes Levels in the Livers of Swiss Albino Mice. Journal of Radiation Research, 2007, 48, 241-245.	1.6	29
85	3,3â€²-Diselenodipropionic Acid, an Efficient Peroxyl Radical Scavenger and a GPx Mimic, Protects Erythrocytes (RBCs) from AAPH-Induced Hemolysis. Chemical Research in Toxicology, 2007, 20, 1482-1487.	3.3	87
86	Delayed activation of PKCÎ´ and NFÎºB and higher radioprotection in splenic lymphocytes by copper (II)â€“Curcumin (1:1) complex as compared to curcumin. Journal of Cellular Biochemistry, 2007, 102, 1214-1224.	2.6	40
87	Interaction of curcumin with human serum albumin: Thermodynamic properties, fluorescence energy transfer and denaturation effects. Chemical Physics Letters, 2007, 436, 239-243.	2.6	101
88	Comparative study of copper(II)â€“curcumin complexes as superoxide dismutase mimics and free radical scavengers. European Journal of Medicinal Chemistry, 2007, 42, 431-439.	5.5	151
89	Transport of liposomal and albumin loaded curcumin to living cells: An absorption and fluorescence spectroscopic study. Biochimica Et Biophysica Acta - General Subjects, 2006, 1760, 1513-1520.	2.4	244