

Amit Kunwar

List of Publications by Year in descending order

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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	Quantitative cellular uptake, localization and cytotoxicity of curcumin in normal and tumor cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2008, 1780, 673-679.	2.4	298
2	Transport of liposomal and albumin loaded curcumin to living cells: An absorption and fluorescence spectroscopic study. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2006, 1760, 1513-1520.	2.4	244
3	Concentration dependent antioxidant/pro-oxidant activity of curcumin. <i>Chemico-Biological Interactions</i> , 2008, 174, 134-139.	4.0	164
4	Comparative study of copper(II)-curcumin complexes as superoxide dismutase mimics and free radical scavengers. <i>European Journal of Medicinal Chemistry</i> , 2007, 42, 431-439.	5.5	151
5	Interaction of curcumin with human serum albumin: Thermodynamic properties, fluorescence energy transfer and denaturation effects. <i>Chemical Physics Letters</i> , 2007, 436, 239-243.	2.6	101
6	Differential response of DU145 and PC3 prostate cancer cells to ionizing radiation: Role of reactive oxygen species, GSH and Nrf2 in radiosensitivity. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 485-494.	2.4	97
7	3,3'-Diselenodipropionic Acid, an Efficient Peroxyl Radical Scavenger and a GPx Mimic, Protects Erythrocytes (RBCs) from AAPH-Induced Hemolysis. <i>Chemical Research in Toxicology</i> , 2007, 20, 1482-1487.	3.3	87
8	Melanin, a promising radioprotector: Mechanisms of actions in a mice model. <i>Toxicology and Applied Pharmacology</i> , 2012, 264, 202-211.	2.8	84
9	In vivo radioprotection studies of 3,3'-diselenodipropionic acid, a selenocystine derivative. <i>Free Radical Biology and Medicine</i> , 2010, 48, 399-410.	2.9	75
10	Dimethoxycurcumin-induced cell death in human breast carcinoma MCF7 cells: evidence for pro-oxidant activity, mitochondrial dysfunction, and apoptosis. <i>Archives of Toxicology</i> , 2012, 86, 603-614.	4.2	51
11	Structural and therapeutic properties of curcumin solubilized pluronic F127 micellar solutions and hydrogels. <i>Journal of Molecular Liquids</i> , 2020, 314, 113591.	4.9	50
12	Curcumin mediates time and concentration dependent regulation of redox homeostasis leading to cytotoxicity in macrophage cells. <i>European Journal of Pharmacology</i> , 2009, 611, 8-16.	3.5	49
13	Acute adaptive immune response correlates with late radiation-induced pulmonary fibrosis in mice. <i>Radiation Oncology</i> , 2015, 10, 45.	2.7	49
14	Stimuli-Responsive Cucurbit[7]uril-Mediated BSA Nanoassembly for Uptake and Release of Doxorubicin. <i>Chemistry - an Asian Journal</i> , 2017, 12, 122-129.	3.3	49
15	Differential antioxidant/pro-oxidant activity of dimethoxycurcumin, a synthetic analogue of curcumin. <i>Free Radical Research</i> , 2011, 45, 959-965.	3.3	44
16	Interaction of a Curcumin Analogue Dimethoxycurcumin with DNA. <i>Chemical Biology and Drug Design</i> , 2011, 77, 281-287.	3.2	43
17	Passive and Active Drug Targeting: Role of Nanocarriers in Rational Design of Anticancer Formulations. <i>Current Pharmaceutical Design</i> , 2019, 25, 3034-3056.	1.9	43
18	Tuning the binding, release and cytotoxicity of hydrophobic drug by Bovine Serum Albumin nanoparticles: Influence of particle size. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 158, 682-688.	5.0	42

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19	Delayed activation of PKC $\hat{\gamma}$ and NF $\hat{\kappa}$ B 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
20	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
21	InÂvitro radioprotection studies of organoselenium compounds: differences between mono- and diselenides. Radiation and Environmental Biophysics, 2009, 48, 379-384.	1.4	39
22	Pluronic stabilized Fe ₃ O ₄ magnetic nanoparticles for intracellular delivery of curcumin. RSC Advances, 2016, 6, 98674-98681.	3.6	39
23	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
24	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
25	Anti-apoptotic, anti-inflammatory, and immunomodulatory activities of 3,3â€²-diselenodipropionic acid in mice exposed to whole body $\hat{\gamma}$ -radiation. Archives of Toxicology, 2011, 85, 1395-1405.	4.2	31
26	Clinical scale synthesis of intrinsically radiolabeled and cyclic RGD peptide functionalized ^{198}Au nanoparticles for targeted cancer therapy. Nuclear Medicine and Biology, 2019, 72-73, 1-10.	0.6	31
27	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
28	Protective effects of selenocystine against $\hat{\gamma}$ -radiation-induced genotoxicity in Swiss albino mice. Radiation and Environmental Biophysics, 2011, 50, 271-280.	1.4	28
29	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
30	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
31	Inactivation of <i>A. ochraceus</i> Spores and Detoxification of Ochratoxin A in Coffee Beans by Gamma Irradiation. Journal of Food Science, 2012, 77, T44-51.	3.1	23
32	Cellular evaluation of diselenonicotinamide (DSNA) as a radioprotector against cell death and DNA damage. Metallomics, 2017, 9, 715-725.	2.4	23
33	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
34	Curcumin and Its Role in Chronic Diseases. Advances in Experimental Medicine and Biology, 2016, 928, 1-25.	1.6	22
35	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
36	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

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37	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
38	Anti-ulcer 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
39	Industrial-Scale Synthesis of Intrinsically Radiolabeled ⁶⁴ CuS Nanoparticles for Use in Positron Emission Tomography (PET) Imaging of Cancer. Industrial & Engineering Chemistry Research, 2016, 55, 12407-12419.	3.7	19
40	Oral administration of 3,3'-diselenodipropionic acid prevents thoracic radiation induced pneumonitis in mice by suppressing NF- κ B/IL-17/G-CSF/neutrophil axis. Free Radical Biology and Medicine, 2019, 145, 8-19.	2.9	19
41	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
42	Alkyl chain modulated cytotoxicity and antioxidant activity of bioinspired amphiphilic selenolanes. Toxicology Research, 2016, 5, 434-445.	2.1	17
43	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
44	Fatty Acid Conjugates of Water-Soluble (±)-trans-Selenolane-3,4'-diol: Effects of Alkyl Chain Length on the Antioxidant Capacity. ChemBioChem, 2015, 16, 1226-1234.	2.6	15
45	3,3'-Diselenodipropionic acid (DSePA) induces reductive stress in A549 cells triggering p53-independent apoptosis: A novel mechanism for diselenides. Free Radical Biology and Medicine, 2021, 175, 1-17.	2.9	15
46	Current Developments on Synthesis, Redox Reactions and Biochemical Studies of Selenium Antioxidants. Current Chemical Biology, 2013, 7, 37-46.	0.5	14
47	Glutathione-Functionalized Organosilicon Oxide Nanoparticles for Bioimaging and Forensics. ACS Applied Nano Materials, 2020, 3, 5123-5138.	5.0	14
48	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
49	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
50	Biodistribution and Pharmacokinetic Study of 3,3'-Diseleno Dipropionic Acid (DSePA), A Synthetic Radioprotector, in Mice. European Journal of Drug Metabolism and Pharmacokinetics, 2016, 41, 839-844.	1.6	13
51	Tuning the pharmacokinetics and efficacy of irinotecan (IRI) loaded gelatin nanoparticles through folate conjugation. International Journal of Pharmaceutics, 2020, 586, 119522.	5.2	13
52	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
53	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
54	2,2'-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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55	Synthesis and anti-proliferative activities of amine capped Pd and Pt macrocycles of 4,4'-dipyridylselenides. <i>New Journal of Chemistry</i> , 2020, 44, 7329-7337.	2.8	12
56	Redox reactions of organoselenium compounds: Implication in their biological activity. <i>Free Radical Research</i> , 2021, 55, 873-886.	3.3	12
57	Dihydroxyselenolane (DHS) supplementation improves survival following whole-body irradiation (WBI) by suppressing tissue-specific inflammatory responses. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2016, 807, 33-46.	1.7	11
58	Saccharide capped CdSe quantum dots grown via electron beam irradiation. <i>Materials Chemistry and Physics</i> , 2017, 199, 609-615.	4.0	11
59	Toxicological safety evaluation of 3,3'-diselenodipropionic acid (DSePA), a pharmacologically important derivative of selenocystine. <i>Regulatory Toxicology and Pharmacology</i> , 2018, 99, 159-167.	2.7	11
60	Fluorescence α -coff α - and α -on α -signalling of esculetin in the presence of copper and thiol: a possible implication in cellular thiol sensing. <i>Photochemical and Photobiological Sciences</i> , 2018, 17, 1197-1205.	2.9	11
61	Gelatin-lecithin-F127 gel mediated self-assembly of curcumin vesicles for enhanced wound healing. <i>International Journal of Biological Macromolecules</i> , 2022, 210, 403-414.	7.5	11
62	Basal levels of glutathione peroxidase correlate with onset of radiation induced lung disease in inbred mouse strains. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014, 307, L597-L604.	2.9	10
63	Effect of Low-Dose Selenium Supplementation on the Genotoxicity, Tissue Injury and Survival of Mice Exposed to Acute Whole-Body Irradiation. <i>Biological Trace Element Research</i> , 2017, 179, 130-139.	3.5	10
64	Protein: a versatile biopolymer for the fabrication of smart materials for drug delivery. <i>Journal of Chemical Sciences</i> , 2019, 131, 1.	1.5	10
65	DNA damage at respiratory distress, but not acute time-points, correlates with tissue fibrosis following thoracic radiation exposure in mice. <i>International Journal of Radiation Biology</i> , 2015, 91, 360-367.	1.8	9
66	Mechanism of radioprotection by dihydroxy-1-selenolane (DHS): Effect of fatty acid conjugation and role of glutathione peroxidase (GPx). <i>Biochimie</i> , 2018, 144, 122-133.	2.6	9
67	Balancing loading, cellular uptake, and toxicity of gelatin α pluronic nanocomposite for drug delivery: Influence of $\langle \text{sc} \rangle \text{HLB} \langle / \text{sc} \rangle$ of pluronic. <i>Journal of Biomedical Materials Research - Part A</i> , 2022, 110, 304-315.	4.0	9
68	Study of polymorphism in 2, 2'-diselenobis(3-pyridinol). <i>Journal of Organometallic Chemistry</i> , 2017, 852, 1-7.	1.8	8
69	La($\langle \text{sc} \rangle \text{iii} \langle / \text{sc} \rangle$) α curcumin-functionalized gold nanocomposite as a red light-activatable mitochondria-targeting PDT agent. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 686-701.	6.0	8
70	L-Cysteine Capped CdSe Quantum Dots Synthesized by Photochemical Route. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 3419-3426.	0.9	7
71	Electron beam mediated synthesis of photoluminescent organosilicon nanoparticles in TX-100 micellar medium and their prospective applications. <i>Journal of Molecular Liquids</i> , 2021, 334, 116072.	4.9	7
72	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. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 640, 128483.	4.7	7

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73	Interaction of a Model Hydrophobic Drug Dimethylcurcumin with Albumin Nanoparticles. Protein Journal, 2019, 38, 649-657.	1.6	6
74	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
75	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
76	POTENT RADICAL SCAVENGING ABILITY OF SUNPHENON: A GREEN TEA EXTRACT. Journal of Food Biochemistry, 2011, 35, 596-612.	2.9	5
77	Degradation of Peroxynitrite by Simple, Recyclable Selenolanes. Bulletin of the Chemical Society of Japan, 2016, 89, 490-497.	3.2	5
78	Facile One-Pot Synthesis of Intrinsically Radiolabeled ⁶⁴ Cu-Human Serum Albumin Nanocomposite for Cancer Targeting. ChemistrySelect, 2017, 2, 8043-8051.	1.5	5
79	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
80	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
81	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
82	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
83	Selenium compounds as antioxidants and radioprotectors. , 2013, , 37-38.		3
84	Highly stable spherical shaped and blue photoluminescent cyclodextrin-coated tellurium nanocomposites prepared by <i>in situ</i> generated solvated electrons: a rapid green method and mechanistic and anticancer studies. Dalton Transactions, 2022, 51, 6366-6377.	3.3	2
85	One-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
86	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
87	Diselenodipropionic acid as novel selenium compound for lung radiotherapy. , 2015, , 51-52.		0
88	Comparative cytotoxicity and antioxidant evaluation of biologically active fatty acid conjugates of water soluble selenolanes in cells. , 2015, , 49-50.		0
89	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