

Premkumar Kumpati

List of Publications by Year in descending order

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62
papers

2,858
citations

218381

26
h-index

174990

52
g-index

62
all docs

62
docs citations

62
times ranked

4634
citing authors

#	ARTICLE	IF	CITATIONS
1	Biogenic silver nanoparticles for cancer treatment: An experimental report. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 106, 86-92.	2.5	352
2	Photocatalytic degradation of methyl orange dye using silver (Ag) nanoparticles synthesized from <i>Ulva lactuca</i> . <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 103, 658-661.	2.5	247
3	An investigation on the cytotoxicity and caspase-mediated apoptotic effect of biologically synthesized silver nanoparticles using <i>Podophyllum hexandrum</i> on human cervical carcinoma cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 102, 708-717.	2.5	245
4	The extra cellular synthesis of gold and silver nanoparticles and their free radical scavenging and antibacterial properties. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 102, 808-815.	2.5	199
5	Phyto-synthesis of silver nanoscale particles using <i>Morinda citrifolia</i> L. and its inhibitory activity against human pathogens. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 95, 235-240.	2.5	140
6	Protective effects of saffron (<i>Crocus sativus</i> Linn.) on genotoxins-induced oxidative stress in Swiss albino mice. <i>Phytotherapy Research</i> , 2003, 17, 614-617.	2.8	103
7	Doxorubicin loaded polymeric gold nanoparticles targeted to human folate receptor upon laser photothermal therapy potentiates chemotherapy in breast cancer cell lines. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015, 149, 116-128.	1.7	97
8	Doxorubicin conjugated gold nanorods: a sustained drug delivery carrier for improved anticancer therapy. <i>Journal of Materials Chemistry B</i> , 2013, 1, 1010-1018.	2.9	91
9	Somatic Bi-allelic Loss of TSC Genes in Eosinophilic Solid and Cystic Renal Cell Carcinoma. <i>European Urology</i> , 2018, 74, 483-486.	0.9	86
10	Protective effect of saffron (<i>Crocus sativus</i> L.) aqueous extract against genetic damage induced by anti-tumor agents in mice. <i>Human and Experimental Toxicology</i> , 2006, 25, 79-84.	1.1	76
11	Effect of <i>Spirulina fusiformis</i> on cyclophosphamide and mitomycin-C induced genotoxicity and oxidative stress in mice. <i>FÄ-toterapÄ-Äç</i> , 2001, 72, 906-911.	1.1	74
12	INHIBITION OF GENOTOXICITY BY SAFFRON (<i>CROCUS SATIVUS</i> L.) IN MICE. <i>Drug and Chemical Toxicology</i> , 2001, 24, 421-428.	1.2	68
13	Biallelic Alteration and Dysregulation of the Hippo Pathway in Mucinous Tubular and Spindle Cell Carcinoma of the Kidney. <i>Cancer Discovery</i> , 2016, 6, 1258-1266.	7.7	66
14	Rhodamine based "on" molecular switch FRET sensor for cadmium and sulfide ions and live cell imaging study. <i>Sensors and Actuators B: Chemical</i> , 2017, 238, 565-577.	4.0	61
15	Gold and Silver Nanoparticles Biomimetically Synthesized Using Date Palm Pollen Extract-Induce Apoptosis and Regulate p53 and Bcl-2 Expression in Human Breast Adenocarcinoma Cells. <i>Biological Trace Element Research</i> , 2018, 186, 122-134.	1.9	60
16	Role of <i>Syzygium cumini</i> seed extract in the chemoprevention of in vivo genomic damage and oxidative stress. <i>Journal of Ethnopharmacology</i> , 2011, 134, 329-333.	2.0	59
17	Protective effect of <i>Spirulina fusiformis</i> on chemical-induced genotoxicity in mice. <i>FÄ-toterapÄ-Äç</i> , 2004, 75, 24-31.	1.1	51
18	Synthesis, nucleic acid binding, anticancer and antimicrobial activities of polymer-copper(ii) complexes containing intercalative phenanthroline ligand(DPQ). <i>RSC Advances</i> , 2013, 3, 16456.	1.7	42

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19	Green biosynthesis of gold nanoparticles using <i>Croton sparsiflorus</i> leaves extract and evaluation of UV protection, antibacterial and anticancer applications. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5574.	1.7	42
20	Biogenic metal nanoformulations induce Bax/Bcl2 and caspase mediated mitochondrial dysfunction in human breast cancer cells (MCF 7). <i>RSC Advances</i> , 2015, 5, 2159-2166.	1.7	35
21	Anticancer potential of ZnO nanoparticle-ferulic acid conjugate on Huh-7 and HepG2 cells and diethyl nitrosamine induced hepatocellular cancer on Wistar albino rat. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 415-428.	1.7	35
22	The remarkable role of emulsifier and chitosan, dextran and PEG as capping agents in the enhanced delivery of curcumin by nanoparticles in breast cancer cells. <i>International Journal of Biological Macromolecules</i> , 2020, 162, 748-761.	3.6	34
23	Thermal Chemosensitization of Breast Cancer Cells to Cyclophosphamide Treatment Using Folate Receptor Targeted Gold Nanoparticles. <i>Plasmonics</i> , 2014, 9, 1341-1349.	1.8	30
24	One-step biological synthesis of cauliflower-like Ag/MgO nanocomposite with antibacterial, anticancer, and catalytic activity towards anthropogenic pollutants. <i>Research on Chemical Intermediates</i> , 2020, 46, 1771-1788.	1.3	30
25	Surface engineered <i>Amphora subtropica</i> frustules using chitosan as a drug delivery platform for anticancer therapy. <i>Materials Science and Engineering C</i> , 2019, 94, 56-64.	3.8	29
26	Mineralization of bioactive marine sponge and electrophoretic deposition on Ti-6Al-4V implant for osteointegration. <i>Surface and Coatings Technology</i> , 2020, 392, 125727.	2.2	29
27	Mitochondrial DNA variations associated with hypertrophic cardiomyopathy. <i>Mitochondrion</i> , 2014, 16, 65-72.	1.6	28
28	<i>In vitro</i> and <i>in vivo</i> evaluation of antioxidant and antigenotoxic potential of <i>Punica granatum</i> leaf extract. <i>Pharmaceutical Biology</i> , 2012, 50, 1523-1530.	1.3	24
29	Near infra-red laser mediated photothermal and antitumor efficacy of doxorubicin conjugated gold nanorods with reduced cardiotoxicity in swiss albino mice. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 1435-1444.	1.7	23
30	<i>Micrococcus luteus</i> mediated dual mode synthesis of gold nanoparticles: Involvement of extracellular α -amylase and cell wall teichuronic acid. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 103, 517-522.	2.5	22
31	Nannochloropsis Extract-Mediated Synthesis of Biogenic Silver Nanoparticles, Characterization and In Vitro Assessment of Antimicrobial, Antioxidant and Cytotoxic Activities. <i>Asian Pacific Journal of Cancer Prevention</i> , 2019, 20, 2353-2364.	0.5	21
32	Ascorbic acid reduces the frequency of iron induced micronuclei in bone marrow cells of mice. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2003, 542, 99-103.	0.9	20
33	Ascorbic Acid Does Not Increase the Oxidative Stress Induced by Dietary Iron in C3H Mice. <i>Journal of Nutrition</i> , 2004, 134, 435-438.	1.3	19
34	Ligand-based pharmacophore mapping and virtual screening for identification of potential discoidin domain receptor 1 inhibitors. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 2800-2808.	2.0	19
35	Surviving apoptosis: A possible mechanism of benzene-induced leukemia. <i>Chemico-Biological Interactions</i> , 2005, 153-154, 179-185.	1.7	18
36	Polymer-cobalt(III) complexes: structural analysis of metal chelates on DNA interaction and comparative cytotoxic activity. <i>Journal of Biomolecular Structure and Dynamics</i> , 2014, 32, 1876-1888.	2.0	18

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37	Unravelling the distinct strains of Tharu ancestry. <i>European Journal of Human Genetics</i> , 2014, 22, 1404-1412.	1.4	17
38	Sighting of tankyrase inhibitors by structure- and ligand-based screening and in vitro approach. <i>Molecular BioSystems</i> , 2014, 10, 2699.	2.9	17
39	Fluorescence Sensor for Hg ²⁺ and Fe ³⁺ ions using 3,3'-Dihydroxybenzidine-Cyclodextrin Supramolecular Complex: Characterization, in-silico and Cell Imaging Study. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 1227-1238.	4.0	17
40	Mitochondrial genome variations in idiopathic dilated cardiomyopathy. <i>Mitochondrion</i> , 2019, 48, 51-59.	1.6	17
41	Acridine orange tethered chitosan reduced gold nanoparticles: a dual functional probe for combined photodynamic and photothermal therapy. <i>RSC Advances</i> , 2013, 3, 20471.	1.7	16
42	Enzyme Immobilization on Nanomaterials for Biosensor and Biocatalyst in Food and Biomedical Industry. <i>Current Pharmaceutical Design</i> , 2019, 25, 2661-2676.	0.9	16
43	Sodium selenite enhances glutathione peroxidase activity and DNA strand breaks in hepatoma induced by N-nitrosodiethylamine and promoted by phenobarbital. <i>Molecular and Cellular Biochemistry</i> , 2008, 310, 129-139.	1.4	15
44	Rapid bioreduction of trivalent aurum using banana stem powder and its cytotoxicity against MCF-7 and HEK-293 cell lines. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	13
45	In silico structural and functional analysis of the human TOPK protein by structure modeling and molecular dynamics studies. <i>Journal of Molecular Modeling</i> , 2013, 19, 407-419.	0.8	13
46	Comparative Bioactive Studies Between Wild Plant and Callus Culture of <i>Tephrosia tinctoria</i> Pers.. <i>Applied Biochemistry and Biotechnology</i> , 2013, 171, 2105-2120.	1.4	12
47	Photochemotherapeutic effects of UV-C on acridine orange in human breast cancer cells: potential application in anticancer therapy. <i>RSC Advances</i> , 2014, 4, 22123.	1.7	12
48	Hypoxia stimulates microenvironment in human embryonic stem cell through inflammatory signalling: An integrative analysis. <i>Biochemical and Biophysical Research Communications</i> , 2018, 498, 437-444.	1.0	12
49	Oxystressed tumor microenvironment potentiates epithelial to mesenchymal transition and alters cellular bioenergetics towards cancer progression. <i>Tumor Biology</i> , 2016, 37, 13307-13322.	0.8	11
50	The inhibitory effect of sodium selenite on N-nitrosodiethylamine-induced and phenobarbital promoted liver tumourigenesis in rats based on the modulation of polyamine levels. <i>Molecular and Cellular Biochemistry</i> , 2005, 280, 165-172.	1.4	9
51	The potentiating and protective effects of ascorbate on oxidative stress depend upon the concentration of dietary iron fed C3H mice. <i>Journal of Nutritional Biochemistry</i> , 2007, 18, 272-278.	1.9	9
52	Integrative miRNA-mRNA functional analysis identifies miR-182 as a potential prognostic biomarker in breast cancer. <i>Molecular Omics</i> , 2021, 17, 533-543.	1.4	9
53	Impact of Anthocyanidins on Mitoxantrone-Induced Cytotoxicity and Genotoxicity. <i>Integrative Cancer Therapies</i> , 2016, 15, 525-534.	0.8	8
54	Chitosan Tethered Colloidal Gold Nanospheres for Drug Delivery Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 229-241.	0.9	7

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55	Low-dose chemotherapeutic drugs induce reactive oxygen species and initiate apoptosis-mediated genomic instability. <i>Toxicology Research</i> , 2016, 5, 547-556.	0.9	6
56	Systemic Multi-Omics Analysis Reveals Amplified P4HA1 Gene Associated With Prognostic and Hypoxic Regulation in Breast Cancer. <i>Frontiers in Genetics</i> , 2021, 12, 632626.	1.1	6
57	IDENTIFICATION OF NOVEL GENES RELATED TO DIABETIC RETINOPATHY USING PROTEIN-PROTEIN INTERACTION NETWORK AND GENE ONTOLOGIES. <i>Journal of Biological Systems</i> , 2016, 24, 117-127.	0.5	5
58	Inhibitory potential of Hydroxychavicol on Ehrlich ascites carcinoma model and in silico interaction on cancer targets. <i>Natural Product Research</i> , 2020, 34, 1591-1596.	1.0	5
59	Pharmacophore based virtual screening, molecular docking and molecular dynamic simulation studies for finding ROS1 kinase inhibitors as potential drug molecules. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, , 1-15.	2.0	5
60	Nomadic genetic elements contribute to oncogenic translocations: Implications in carcinogenesis. <i>Critical Reviews in Oncology/Hematology</i> , 2016, 98, 81-93.	2.0	3
61	HPV-mediated Cervical Cancer: A Systematic Review on Immunological Basis, Molecular Biology, and Immune Evasion Mechanisms. <i>Current Drug Targets</i> , 2022, 23, 782-801.	1.0	3
62	Response to Letter to the Editor "Mitochondrial haplogroups are associated with hypertrophic cardiomyopathy in the Indian population". <i>Mitochondrion</i> , 2015, 20, 103-104.	1.6	2