Periasamy Vaiyapuri Subbarayan

List of Publications by Year
in descending order

64 papers	3,250 citations	172457 29 h-index	149698 56 g-index
64 all docs	64 docs citations	64 times ranked	4527 citing authors

#	Article	IF	Citations
1	Phoenix dactylifera lignocellulosic biomass as precursor for nanostructure fabrication using integrated process. International Journal of Biological Macromolecules, 2019, 134, 1179-1186.	7.5	20
2	Sulforaphane alleviates cadmium-induced toxicity in human mesenchymal stem cells through POR and TNFSF10 genes expression. Biomedicine and Pharmacotherapy, 2019, 115, 108896.	5.6	8
3	Synthesis of SiO2 nanostructures from Pennisetum glaucum and their effect on osteogenic differentiation for bone tissue engineering applications. Journal of Materials Science: Materials in Medicine, 2019, 30, 23.	3.6	9
4	Antimicrobial activity of nanoemulsion on drug-resistant bacterial pathogens. Microbial Pathogenesis, 2018, 120, 85-96.	2.9	48
5	Regio- and diastereoselective synthesis of anticancer spirooxindoles derived from tryptophan and histidine via three-component 1,3-dipolar cycloadditions in an ionic liquid. Tetrahedron, 2018, 74, 5358-5366.	1.9	44
6	Assessment of sulforaphane-induced protective mechanisms against cadmium toxicity in human mesenchymal stem cells. Environmental Science and Pollution Research, 2018, 25, 10080-10089.	5.3	16
7	Extraction and biocompatibility analysis of silica phytoliths from sorghum husk for three-dimensional cell culture. Process Biochemistry, 2018, 70, 153-159.	3.7	10
8	Borassus flabellifer biomass lignin: Isolation and characterization of its antioxidant and cytotoxic properties. Sustainable Chemistry and Pharmacy, 2018, 10, 89-96.	3.3	22
9	Regio and stereoselective synthesis of anticancer spirooxindolopyrrolidine embedded piperidone heterocyclic hybrids derived from one-pot cascade protocol. Chemistry Central Journal, 2018, 12, 95.	2.6	15
10	Fabrication and cytotoxicity assessment of cellulose nanofibrils using Bassia eriophora biomass. International Journal of Biological Macromolecules, 2018, 117, 911-918.	7.5	23
11	Evaluation of antibacterial and cytotoxic properties of green synthesized Cu2O/Graphene nanosheets. Materials Science and Engineering C, 2018, 93, 242-253.	7.3	37
12	Multicomponent Domino Synthesis, Anticancer Activity and Molecular Modeling Simulation of Complex Dispirooxindolopyrrolidines. Molecules, 2018, 23, 1094.	3.8	12
13	Synthesis and biocompatibility assessment of sugarcane bagasseâ€derived biogenic silica nanoparticles for biomedical applications. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2017, 105, 340-349.	3.4	34
14	Green Fabrication of Co3O4 Nanoparticle-Decorated Reduced Graphene Oxide Sheets: Evaluation of Biocompatibility on Human Mesenchymal Stem Cells for Biomedical Applications. Journal of Inorganic and Organometallic Polymers and Materials, 2017, 27, 1110-1116.	3.7	10
15	Synthesis of Polyphenon-60 Functionalized Bimetallic Agâ€“Pt Nanostructures that Inhibit Proliferation of SiHa Cells. Journal of Cluster Science, 2017, 28, 1307-1318.	3.3	1
16	Sulforaphane mitigates cadmium-induced toxicity pattern in human peripheral blood lymphocytes and monocytes. Environmental Toxicology and Pharmacology, 2017, 55, 223-239.	4.0	15
17	Date Fruits-Assisted Synthesis and Biocompatibility Assessment of Nickel Oxide Nanoparticles Anchored onto Graphene Sheets for Biomedical Applications. Applied Biochemistry and Biotechnology, 2017, 181, 725-734.	2.9	11
18	Extraction of ultrafine carbon nanoparticles from samooli Bread and evaluation of their in vitro cytotoxicity in human mesenchymal stem cells. Process Biochemistry, 2017, 52, 250-258.	3.7	14

#	Article	IF	Citations
19	Eco-friendly synthesis and characterization of platinum-copper alloy nanoparticles induce cell death in human cervical cancer cells. Process Biochemistry, 2016, 51, 925-932.	3.7	15
20	Aluminum oxide nanoparticles alter cell cycle progression through CCND1 and EGR1 gene expression in human mesenchymal stem cells. Biotechnology and Applied Biochemistry, 2016, 63, 320-327.	3.1	17
21	Fe₃O₄ nanoparticle redox system modulation via cellâ€cycle progression and gene expression in human mesenchymal stem cells. Environmental Toxicology, 2016, 31, 901-912.	4.0	27
22	Synergistic anticancer activity of dietary tea polyphenols and bleomycin hydrochloride in human cervical cancer cell: Caspase-dependent and independent apoptotic pathways. Chemico-Biological Interactions, 2016, 247, 1-10.	4.0	49
23	Anticancer activity of an ultrasonic nanoemulsion formulation of Nigella sativa L. essential oil on human breast cancer cells. Ultrasonics Sonochemistry, 2016, 31, 449-455.	8.2	162
24	The presence of carbon nanostructures in bakery products induces metabolic stress in human mesenchymal stem cells through CYP1A and p53 gene expression. Environmental Toxicology and Pharmacology, 2016, 41, 103-112.	4.0	34
25	Carbon nanoparticle induced cytotoxicity in human mesenchymal stem cells through upregulation of TNF3, NFKBIA and BCL2L1 genes. Chemosphere, 2016, 144, 275-284.	8.2	32
26	Effects of Titanium Dioxide Nanoparticles Isolated from Confectionery Products on the Metabolic Stress Pathway in Human Lung Fibroblast Cells. Archives of Environmental Contamination and Toxicology, 2015, 68, 521-533.	4.1	27
27	Identification of Nanoscale Ingredients in Commercial Food Products and their Induction of Mitochondrially Mediated Cytotoxic Effects on Human Mesenchymal Stem Cells. Journal of Food Science, 2015, 80, N459-64.	3.1	51
28	Green synthesis of platinum nanoparticles that induce cell death and G2/M-phase cell cycle arrest in human cervical cancer cells. Journal of Materials Science: Materials in Medicine, 2015, 26, 5330.	3.6	85
29	Synthesis, molecular docking and biological evaluation of novel 6-(4-(4-aminophenylsulfonyl)phenylamino)-5H-benzo[a]phenothiazin-5-one derivatives. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 139, 477-487.	3.9	16
30	Hepatotoxic effect of ochratoxin A and citrinin, alone and in combination, and protective effect of vitamin E: InÂvitro study in HepG2 cell. Food and Chemical Toxicology, 2015, 83, 151-163.	3.6	85
31	Green synthesis of bimetallic Au@Pt nanostructures and their application for proliferation inhibition and apoptosis induction in human cervical cancer cell. Journal of Materials Science: Materials in Medicine, 2015, 26, 148.	3.6	23
32	Identification of titanium dioxide nanoparticles in food products: Induce intracellular oxidative stress mediated by TNF and CYP1A genes in human lung fibroblast cells. Environmental Toxicology and Pharmacology, 2015, 39, 176-186.	4.0	52
33	Time lapse microscopy observation of cellular structural changes and image analysis of drug treated cancer cells to characterize the cellular heterogeneity. Environmental Toxicology, 2015, 30, 724-734.	4.0	12
34	Silica Nanoparticles Induced Metabolic Stress throughÂ EGR1, CCND, and E2F1 Genes in Human Mesenchymal Stem Cells. Applied Biochemistry and Biotechnology, 2015, 175, 1181-1192.	2.9	10
35	Biocompatibility assessment of rice husk-derived biogenic silica nanoparticles for biomedical applications. Materials Science and Engineering C, 2015, 47, 8-16.	7.3	111
36	Design, synthesis, molecular docking as histone deacetylase (HDAC8) inhibitors, cytotoxicity and antibacterial evaluation of novel 6-(4-(4-aminophenylsulfonyl)phenylamino)-5H-benzo[a]phenoxazin-5-one derivatives. Medicinal Chemistry Research, 2015, 24, 197-208.	2.4	19

#	Article	IF	Citations
37	Synthesis of biogenic silica nanoparticles from rice husks for biomedical applications. Ceramics International, 2015, 41, 275-281.	4.8	165
38	Synthesis, molecular docking and cytotoxicity evaluation of novel 2-(4-amino-benzosulfonyl)-5H-benzo[b]carbazole-6,11-dione derivatives as histone deacetylase (HDAC8) inhibitors. Bioorganic Chemistry, 2014, 53, 24-36.	4.1	30
39	Presence of nanosilica (E551) in commercial food products: TNF-mediated oxidative stress and altered cell cycle progression in human lung fibroblast cells. Cell Biology and Toxicology, 2014, 30, 89-100.	5.3	136
40	Biogenic silicaâ€“metal phosphate (metalÂ=ÂCa, Fe or Zn) nanocomposites: fabrication from rice husk and their biomedical applications. Journal of Materials Science: Materials in Medicine, 2014, 25, 1637-1644.	3.6	22
41	Protein binding and biological evaluation of a polymer-anchored cobalt(<scp>iii</scp>) complex containing a 2,2â€²-bipyridine ligand. RSC Advances, 2014, 4, 57483-57492.	3.6	28
42	Antiproliferative and apoptosis-induction studies of a metallosurfactant in human breast cancer cell MCF-7. RSC Advances, 2014, 4, 49953-49959.	3.6	32
43	The apoptotic effect of hesperetin on human cervical cancer cells is mediated through cell cycle arrest, death receptor, and mitochondrial pathways. Fundamental and Clinical Pharmacology, 2013, 27, 581-592.	1.9	92
44	CYP1A and POR gene mediated mitochondrial membrane damage induced by carbon nanoparticle in human mesenchymal stem cells. Environmental Toxicology and Pharmacology, 2013, 36, 215-222.	4.0	11
45	Aluminium oxide nanoparticles induce mitochondrial-mediated oxidative stress and alter the expression of antioxidant enzymes in human mesenchymal stem cells. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2013, 30, 1-10.	2.3	35
46	Tea Polyphenols Modulate Antioxidant Redox System on Cisplatinâ€induced Reactive Oxygen Species Generation in a Human Breast Cancer Cell. Basic and Clinical Pharmacology and Toxicology, 2013, 112, 374-384.	2.5	21
47	Down-regulation of GST and CAT gene expression by methanolic extract of Nigella sativa seed in human peripheral blood mononuclear cells. African Journal of Biotechnology, 2013, 12, 4364-4367.	0.6	0
48	Chloroform Extract of Rasagenthi Mezhugu, a Siddha Formulation, as an Evidence-Based Complementary and Alternative Medicine for HPV-Positive Cervical Cancers. Evidence-based Complementary and Alternative Medicine, 2012, 2012, 1-10.	1.2	14
49	Antiproliferative property of n-hexane and chloroform extracts of Anisomeles malabarica (L). R. Br. in HPV16-positive human cervical cancer cells. Journal of Pharmacology and Pharmacotherapeutics, 2012, 3, 26-34.	0.4	18
50	Al₂O₃ Nanoparticles Induce Mitochondriaâ€Mediated Cell Death and Upregulate the Expression of Signaling Genes in Human Mesenchymal Stem Cells. Journal of Biochemical and Molecular Toxicology, 2012, 26, 469-476.	3.0	35
51	New [Ru(5,6-dmp/3,4,7,8-tmp)2(diimine)]2+ complexes: Non-covalent DNA and protein binding, anticancer activity and fluorescent probes for nuclear and protein components. Journal of Inorganic Biochemistry, 2012, 116, 151-162.	3.5	29
52	Formulation of cashew nut shell liquid (CSNL) nanoemulsion, a potent inhibitor of human MCF-7 breast cancer cell proliferation. Medicinal Chemistry Research, 2012, 21, 1384-1388.	2.4	16
53	In Vitro Cytotoxic Effect of Formulated Semecarpus Ghee Nanoemulsion on Human Cervical Cancer (SiHa) Cells. Advanced Science Letters, 2012, 6, 75-79.	0.2	0
54	Ternary Dinuclear Copper(II) Complexes of a Hydroxybenzamide Ligand with Diimine Coligands: the 5,6-dmp Ligand Enhances DNA Binding and Cleavage and Induces Apoptosis. Inorganic Chemistry, 2011, 50, 6458-6471.	4.0	184

#	Article	IF	Citations
55	Cytotoxic effect of a polymerâ€“copper(II) complex containing 2,2â€²-bipyridyl ligand on human lung cancer cells. Medicinal Chemistry Research, 2011, 20, 726-731.	2.4	15
56	[Ru(phen)2(dppz)]2+ as an efficient optical probe for staining nuclear components. Journal of Inorganic Biochemistry, 2010, 104, 217-220.	3.5	35
57	Surfactantâ€“cobalt(III) complexes: Synthesis, critical micelle concentration (CMC) determination, DNA binding, antimicrobial and cytotoxicity studies. Journal of Inorganic Biochemistry, 2009, 103, 117-127.	3.5	92
58	Micellization Behaviour, DNA Binding, Antimicrobial, and Cytotoxicity Studies of Surfactant - Cobalt(III) Complexes Containing Di- and Tetramine Ligands. Australian Journal of Chemistry, 2009, 62, 165.	0.9	11
59	Induction of Cell Death by Ternary Copper(II) Complexes of <scp>l</scp>-Tyrosine and Diimines: Role of Coligands on DNA Binding and Cleavage and Anticancer Activity. Inorganic Chemistry, 2009, 48, 1309-1322.	4.0	239
60	Synthesis, DNA binding and antitumor activities of some novel polymerâ€“cobalt(III) complexes containing 1,10-phenanthroline ligand. Polyhedron, 2008, 27, 1111-1120.	2.2	41
61	DNA binding and biological studies of some novel water-soluble polymerâ€“copper(II)â€“phenanthroline complexes. European Journal of Medicinal Chemistry, 2008, 43, 2082-2091.	5.5	52
62	Non-covalent DNA binding and cytotoxicity of certain mixed-ligand ruthenium(ii) complexes of 2,2â€²-dipyridylamine and diimines. Dalton Transactions, 2008, , 2157.	3.3	142
63	Spermatotoxic effect of aflatoxin B1 in rat: extrusion of outer dense fibres and associated axonemal microtubule doublets of sperm flagellum. Reproduction, 2008, 135, 303-310.	2.6	36
64	Mixed-Ligand Copper(II)-phenolate Complexes:â€‰ Effect of Coligand on Enhanced DNA and Protein Binding, DNA Cleavage, and Anticancer Activity. Inorganic Chemistry, 2007, 46, 8208-8221.	4.0	543