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	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
2	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
3	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
4	Synthesis of biogenic silica nanoparticles from rice husks for biomedical applications. Ceramics International, 2015, 41, 275-281.	4.8	165
5	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
6	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
7	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
8	Biocompatibility assessment of rice husk-derived biogenic silica nanoparticles for biomedical applications. Materials Science and Engineering C, 2015, 47, 8-16.	7.3	111
9	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
10	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
11	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
12	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
13	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
14	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
15	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
16	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
17	Antimicrobial activity of nanoemulsion on drug-resistant bacterial pathogens. Microbial Pathogenesis, 2018, 120, 85-96.	2.9	48
18	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

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19	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
20	Evaluation of antibacterial and cytotoxic properties of green synthesized Cu2O/Graphene nanosheets. Materials Science and Engineering C, 2018, 93, 242-253.	7.3	37
21	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
22	[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
23	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
24	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
25	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
26	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
27	Antiproliferative and apoptosis-induction studies of a metallosurfactant in human breast cancer cell MCF-7. RSC Advances, 2014, 4, 49953-49959.	3.6	32
28	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
29	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
30	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
31	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
32	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
33	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
34	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
35	Fabrication and cytotoxicity assessment of cellulose nanofibrils using Bassia eriophora biomass. International Journal of Biological Macromolecules, 2018, 117, 911-918.	7.5	23
36	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

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37	Borassus flabellifer biomass lignin: Isolation and characterization of its antioxidant and cytotoxic properties. Sustainable Chemistry and Pharmacy, 2018, 10, 89-96.	3.3	22
38	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
39	Phoenix dactylifera lignocellulosic biomass as precursor for nanostructure fabrication using integrated process. International Journal of Biological Macromolecules, 2019, 134, 1179-1186.	7.5	20
40	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
41	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
42	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
43	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
44	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
45	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
46	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
47	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
48	Sulforaphane mitigates cadmium-induced toxicity pattern in human peripheral blood lymphocytes and monocytes. Environmental Toxicology and Pharmacology, 2017, 55, 223-239.	4.0	15
49	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
50	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
51	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
52	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
53	Multicomponent Domino Synthesis, Anticancer Activity and Molecular Modeling Simulation of Complex Dispirooxindolopyrrolidines. Molecules, 2018, 23, 1094.	3.8	12
54	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

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55	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
56	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
57	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
58	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
59	Extraction and biocompatibility analysis of silica phytoliths from sorghum husk for three-dimensional cell culture. Process Biochemistry, 2018, 70, 153-159.	3.7	10
60	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
61	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
62	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
63	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
64	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