Alan Casey

List of Publications by Year
in descending order

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54 papers	3,266 citations	212478 28 h-index	198040 52 g-index
55 all docs	55 docs citations	55 times ranked	5690 citing authors

#	Article	IF	Citations
1	In vitro cytotoxicity, cellular uptake, reactive oxygen species and cell cycle arrest studies of novel ruthenium(II) polypyridyl complexes towards A549 lung cancer cell line. Drug and Chemical Toxicology, 2021, 44, 319-329.	1.2	3
2	Monitoring the biochemical changes occurring to human keratinocytes exposed to solar radiation by Raman spectroscopy. Journal of Biophotonics, 2021, 14, e202000337.	1.1	4
3	Biochemical impact of solar radiation exposure on human keratinocytes monitored by Raman spectroscopy; effects of cell culture environment. Journal of Biophotonics, 2021, 14, e202100058.	1.1	0
4	Evaluation of silver nanoparticle encapsulation in DPPC-based liposome by different methods for enhanced cytotoxicity. International Journal of Polymeric Materials and Polymeric Biomaterials, 2020, 69, 860-871.	1.8	6
5	Liposomal encapsulation of silver nanoparticles (AgNP) improved nanoparticle uptake and induced redox imbalance to activate caspase-dependent apoptosis. Apoptosis: an International Journal on Programmed Cell Death, 2020, 25, 120-134.	2.2	17
6	Cold atmospheric plasma induces silver nanoparticle uptake, oxidative dissolution and enhanced cytotoxicity in glioblastoma multiforme cells. Archives of Biochemistry and Biophysics, 2020, 689, 108462.	1.4	17
7	Surface modification of silver nanoparticle (AgNP) by liposomal encapsulation mitigates AgNP-induced inflammation. Toxicology in Vitro, 2019, 61, 104641.	1.1	15
8	In vitro comparative cytotoxicity study of aminated polystyrene, zinc oxide and silver nanoparticles on a cervical cancer cell line. Drug and Chemical Toxicology, 2019, 42, 9-23.	1.2	20
9	Synthesis, characterisation and DNA intercalation studies of regioisomers of ruthenium (II) polypyridyl complexes. Journal of Inorganic Biochemistry, 2018, 182, 71-82.	1.5	13
10	Toxicological assessment of nanomaterials: the role of in vitro Raman microspectroscopic analysis. Analytical and Bioanalytical Chemistry, 2018, 410, 1631-1646.	1.9	21
11	Cold Atmospheric Plasma Induces ATP-Dependent Endocytosis of Nanoparticles and Synergistic U373MG Cancer Cell Death. Scientific Reports, 2018, 8, 5298.	1.6	62
12	Doxorubicin kinetics and effects on lung cancer cell lines using in vitro Raman microâ€spectroscopy: binding signatures, drug resistance and DNA repair. Journal of Biophotonics, 2018, 11, e201700060.	1.1	29
13	Liposomal encapsulation of silver nanoparticles enhances cytotoxicity and causes induction of reactive oxygen speciesâ€independent apoptosis. Journal of Applied Toxicology, 2018, 38, 616-627.	1.4	24
14	Raman spectroscopy detects biochemical changes due to different cell culture environments in live cells in vitro. Analytical and Bioanalytical Chemistry, 2018, 410, 7537-7550.	1.9	9
15	Comparative studies of cellular viability levels on 2D and 3D in vitro culture matrices. Cytotechnology, 2018, 70, 261-273.	0.7	33
16	Advancing Raman microspectroscopy for cellular and subcellular analysis: towards in vitro high-content spectralomic analysis. Applied Optics, 2018, 57, E11.	0.9	22
17	Differentiating responses of lung cancer cell lines to Doxorubicin exposure: in vitro Raman micro spectroscopy, oxidative stress and bclâ€2 protein expression. Journal of Biophotonics, 2017, 10, 151-165.	1.1	42
18	Determination of spectral markers of cytotoxicity and genotoxicity using in vitro Raman microspectroscopy: cellular responses to polyamidoamine dendrimer exposure. Analyst, The, 2017, 142, 3848-3856.	1.7	13

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19	Synthesis and characterization of a multifunctional gold-doxorubicin nanoparticle system for pH triggered intracellular anticancer drug release. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 119, 372-380.	2.0	72
20	Label-free, high content screening using Raman microspectroscopy: the toxicological response of different cell lines to amine-modified polystyrene nanoparticles (PS-NH₂). Analyst, The, 2017, 142, 3500-3513.	1.7	15
21	Silver nanoparticles induce proâ€inflammatory gene expression and inflammasome activation in human monocytes. Journal of Applied Toxicology, 2016, 36, 1311-1320.	1.4	62
22	In vitro monitoring of time and dose dependent cytotoxicity of aminated nanoparticles using Raman spectroscopy. Analyst, The, 2016, 141, 5417-5431.	1.7	26
23	Water-soluble and photo-stable silver(I) dicarboxylate complexes containing 1,10-phenanthroline ligands: Antimicrobial and anticancer chemotherapeutic potential, DNA interactions and antioxidant activity. Journal of Inorganic Biochemistry, 2016, 159, 120-132.	1.5	52
24	Evaluation of cytotoxicity profile and intracellular localisation of doxorubicin-loaded chitosan nanoparticles. Analytical and Bioanalytical Chemistry, 2016, 408, 5443-5455.	1.9	27
25	Chemotherapeutic efficiency of drugs in vitro: Comparison of doxorubicin exposure in 3D and 2D culture matrices. Toxicology in Vitro, 2016, 33, 99-104.	1.1	29
26	Non-thermal atmospheric plasma induces ROS-independent cell death in U373MG glioma cells and augments the cytotoxicity of temozolomide. British Journal of Cancer, 2016, 114, 435-443.	2.9	74
27	Potential of biofluid components to modify silver nanoparticle toxicity. Journal of Applied Toxicology, 2015, 35, 665-680.	1.4	11
28	The surfactant dipalmitoylphophatidylcholine modifies acute responses in alveolar carcinoma cells in response to lowâ€dose silver nanoparticle exposure. Journal of Applied Toxicology, 2015, 35, 1141-1149.	1.4	5
29	Cellular discrimination using in vitro Raman micro spectroscopy: the role of the nucleolus. Analyst, The, 2015, 140, 5908-5919.	1.7	38
30	Raman micro spectroscopy for in vitro drug screening: subcellular localisation and interactions of doxorubicin. Analyst, The, 2015, 140, 4212-4223.	1.7	80
31	Determination of nanoparticle localisation within subcellular organelles in vitro using Raman spectroscopy. Analytical Methods, 2015, 7, 10000-10017.	1.3	25
32	Investigating the role of shape on the biological impact of gold nanoparticles in vitro. Nanomedicine, 2015, 10, 2643-2657.	1.7	33
33	In vitro evaluation of the cytotoxicity of a folate-modified Î²-cyclodextrin as a new anti-cancer drug delivery system. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2015, 81, 85-94.	0.9	10
34	Antimicrobial properties of nano-silver: A cautionary approach to ionic interference. Journal of Colloid and Interface Science, 2015, 443, 56-64.	5.0	33
35	Surface enhanced Raman scattering with gold nanoparticles: effect of particle shape. Analytical Methods, 2014, 6, 9116-9123.	1.3	236
36	A Comparative Cytotoxic Evaluation of Acrylamide and Diacetone Acrylamide to Investigate Their Suitability for Holographic Photopolymer Formulations. International Journal of Polymer Science, 2013, 2013, 1-6.	1.2	12

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37	Potent oxidative DNA cleavage by the di-copper cytotoxin: [Cu2(Î¼-terephthalate)(1,10-phen)4]2+. Chemical Communications, 2012, 48, 6906.	2.2	54
38	Comparative in vitro cytotoxicity study of silver nanoparticle on two mammalian cell lines. Toxicology in Vitro, 2012, 26, 238-251.	1.1	160
39	Radical-induced DNA damage by cytotoxic square-planar copper(II) complexes incorporating o-phthalate and 1,10-phenanthroline or 2,2â€²-dipyridyl. Free Radical Biology and Medicine, 2012, 53, 564-576.	1.3	64
40	Identifying and localizing intracellular nanoparticles using Raman spectroscopy. Analyst, The, 2012, 137, 1111.	1.7	76
41	Water-soluble bis(1,10-phenanthroline) octanedioate Cu2+ and Mn2+ complexes with unprecedented nano and picomolar in vitro cytotoxicity: promising leads for chemotherapeutic drug development. MedChemComm, 2011, 2, 579.	3.5	73
42	Minimal analytical characterization of engineered nanomaterials needed for hazard assessment in biological matrices. Nanotoxicology, 2011, 5, 1-11.	1.6	141
43	Nano-enhanced food contact materials and the in vitro toxicity to human intestinal cells of nano-ZnO at low dose. Journal of Physics: Conference Series, 2011, 304, 012038.	0.3	2
44	SWCNT suppress inflammatory mediator responses in human lung epithelium in vitro. Toxicology and Applied Pharmacology, 2009, 234, 378-390.	1.3	89
45	Dispersion medium modulates oxidative stress response of human lung epithelial cells upon exposure to carbon nanomaterial samples. Toxicology and Applied Pharmacology, 2009, 236, 276-281.	1.3	90
46	Preparation, characterization of NIPAM and NIPAM/BAM copolymer nanoparticles and their acute toxicity testing using an aquatic test battery. Aquatic Toxicology, 2009, 92, 146-154.	1.9	55
47	An Ecotoxicological Study of Poly(amidoamine) Dendrimers-Toward Quantitative Structure Activity Relationships. Environmental Science & Technology, 2009, 43, 6864-6869.	4.6	60
48	Single walled carbon nanotubes induce indirect cytotoxicity by medium depletion in A549 lung cells. Toxicology Letters, 2008, 179, 78-84.	0.4	160
49	In vitro toxicity evaluation of single walled carbon nanotubes on human A549 lung cells. Toxicology in Vitro, 2007, 21, 438-448.	1.1	399
50	A new approach to the toxicity testing of carbon-based nanomaterialsâ€"The clonogenic assay. Toxicology Letters, 2007, 174, 49-60.	0.4	233
51	Probing the interaction of single walled carbon nanotubes within cell culture medium as a precursor to toxicity testing. Carbon, 2007, 45, 34-40.	5.4	111
52	Spectroscopic analysis confirms the interactions between single walled carbon nanotubes and various dyes commonly used to assess cytotoxicity. Carbon, 2007, 45, 1425-1432.	5.4	274
53	Interaction of single walled carbon nanotubes with starch-based systems. , 2005, , .		0
54	Interaction of Carbon Nanotubes with Sugar Complexes. Synthetic Metals, 2005, 153, 357-360.	2.1	34