

Jonathan B Coulter

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,812
citations

430754

18
h-index

414303

32
g-index

33
all docs

33
docs citations

33
times ranked

2470
citing authors

#	ARTICLE	IF	CITATIONS
1	Cell-Specific Radiosensitization by Gold Nanoparticles at Megavoltage Radiation Energies. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011, 79, 531-539.	0.4	388
2	Biological consequences of nanoscale energy deposition near irradiated heavy atom nanoparticles. <i>Scientific Reports</i> , 2011, 1, 18.	1.6	335
3	Nanodosimetric effects of gold nanoparticles in megavoltage radiation therapy. <i>Radiotherapy and Oncology</i> , 2011, 100, 412-416.	0.3	174
4	Cell type-dependent uptake, localization, and cytotoxicity of 1.9 nm gold nanoparticles. <i>International Journal of Nanomedicine</i> , 2012, 7, 2673.	3.3	150
5	Imaging and radiation effects of gold nanoparticles in tumour cells. <i>Scientific Reports</i> , 2016, 6, 19442.	1.6	111
6	Gold nanoparticle surface functionalization: a necessary requirement in the development of novel nanotherapeutics. <i>Nanomedicine</i> , 2015, 10, 1315-1326.	1.7	91
7	Gold nanoparticle cellular uptake, toxicity and radiosensitisation in hypoxic conditions. <i>Radiotherapy and Oncology</i> , 2014, 110, 342-347.	0.3	72
8	DNA vaccination via RALA nanoparticles in a microneedle delivery system induces a potent immune response against the endogenous prostate cancer stem cell antigen. <i>Acta Biomaterialia</i> , 2019, 96, 480-490.	4.1	64
9	Transcending epithelial and intracellular biological barriers; a prototype DNA delivery device. <i>Journal of Controlled Release</i> , 2016, 226, 238-247.	4.8	51
10	Preclinical evaluation of gold-DTDTPA nanoparticles as theranostic agents in prostate cancer radiotherapy. <i>Nanomedicine</i> , 2016, 11, 2035-2047.	1.7	40
11	Novel tip-loaded dissolving and implantable microneedle array patches for sustained release of finasteride. <i>International Journal of Pharmaceutics</i> , 2021, 606, 120885.	2.6	39
12	A comparison of gold nanoparticle surface co-functionalization approaches using Polyethylene Glycol (PEG) and the effect on stability, non-specific protein adsorption and internalization. <i>Materials Science and Engineering C</i> , 2016, 62, 710-718.	3.8	37
13	Enhanced nanoparticle delivery exploiting tumour-responsive formulations. <i>Cancer Nanotechnology</i> , 2018, 9, 10.	1.9	30
14	Transcriptional regulation of inducible nitric oxide synthase gene therapy: targeting early stage and advanced prostate cancer. <i>Journal of Gene Medicine</i> , 2010, 12, 755-765.	1.4	28
15	Gene therapy with RALA/iNOS composite nanoparticles significantly enhances survival in a model of metastatic prostate cancer. <i>Cancer Nanotechnology</i> , 2018, 9, 5.	1.9	25
16	Erythropoietin drives breast cancer progression by activation of its receptor EPOR. <i>Oncotarget</i> , 2017, 8, 38251-38263.	0.8	24
17	Systemic RALA/iNOS Nanoparticles: A Potent Gene Therapy for Metastatic Breast Cancer Coupled as a Biomarker of Treatment. <i>Molecular Therapy - Nucleic Acids</i> , 2017, 6, 249-258.	2.3	20
18	The contribution of N2O3 to the cytotoxicity of the nitric oxide donor DETA/NO: an emerging role for S-nitrosylation. <i>Bioscience Reports</i> , 2013, 33, .	1.1	19

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19	Exploiting Current Understanding of Hypoxia Mediated Tumour Progression for Nanotherapeutic Development. <i>Cancers</i> , 2019, 11, 1989.	1.7	18
20	Radiation Response in the Tumour Microenvironment: Predictive Biomarkers and Future Perspectives. <i>Journal of Personalized Medicine</i> , 2021, 11, 53.	1.1	17
21	Unraveling the cell-type dependent radiosensitizing effects of gold through the development of a multifunctional gold nanoparticle. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 439-449.	1.7	13
22	Development of TMTP-1 targeted designer biopolymers for gene delivery to prostate cancer. <i>International Journal of Pharmaceutics</i> , 2016, 500, 144-153.	2.6	10
23	Multifunctional and robust composite materials comprising gold nanoparticles at a spherical polystyrene particle surface. <i>Chemical Communications</i> , 2016, 52, 14388-14391.	2.2	9
24	Polymer-Supported Gold Nanoparticle Radiosensitizers with Enhanced Cellular Uptake Efficiency and Increased Cell Death in Human Prostate Cancer Cells. <i>ACS Applied Nano Materials</i> , 2020, 3, 3157-3162.	2.4	9
25	Clinical and functional characterization of CXCR1/CXCR2 biology in the relapse and radiotherapy resistance of primary PTEN-deficient prostate carcinoma. <i>NAR Cancer</i> , 2020, 2, zcaa012.	1.6	8
26	Nuclear Uptake of Gold Nanoparticles Deduced Using Dual-Angle X-ray Fluorescence Mapping. <i>Particle and Particle Systems Characterization</i> , 2019, 36, 1900140.	1.2	7
27	Cell-Penetrating Peptides as a Tool for the Cellular Uptake of a Genetically Modified Nitroreductase for use in Directed Enzyme Prodrug Therapy. <i>Journal of Functional Biomaterials</i> , 2019, 10, 45.	1.8	6
28	Formulating RALA/Au nanocomplexes to enhance nanoparticle internalisation efficiency, sensitising prostate tumour models to radiation treatment. <i>Journal of Nanobiotechnology</i> , 2021, 19, 279.	4.2	6
29	Exploiting the anticancer effects of a nitrogen bisphosphonate nanomedicine for glioblastoma multiforme. <i>Journal of Nanobiotechnology</i> , 2021, 19, 127.	4.2	5
30	Towards photon radiotherapy treatment planning with high Z nanoparticle radiosensitisation agents: the Relative Biological Effective Dose (RBED) framework. <i>Cancer Nanotechnology</i> , 2018, 9, 9.	1.9	3
31	A hierarchical Bayesian approach to calibrating the linear-quadratic model from clonogenic survival assay data. <i>Radiotherapy and Oncology</i> , 2017, 124, 541-546.	0.3	2
32	Process Algebra with Layers: Multi-scale Integration Modelling Applied to Cancer Therapy. <i>Lecture Notes in Computer Science</i> , 2017, , 118-133.	1.0	1