

Ian James Stratford

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141
papers

6,996
citations

43
h-index

79
g-index

148
ext. papers

7,650
ext. citations

5.3
avg, IF

5.13
L-index

#	Paper	IF	Citations
141	Acquired resistance to fractionated radiotherapy can be overcome by concurrent PD-L1 blockade. <i>Cancer Research</i> , 2014 , 74, 5458-68	10.1	704
140	Anticancer chemosensitization and radiosensitization by the novel poly(ADP-ribose) polymerase-1 inhibitor AG14361. <i>Journal of the National Cancer Institute</i> , 2004 , 96, 56-67	9.7	399
139	Targeting gene expression to hypoxic tumor cells. <i>Nature Medicine</i> , 1997 , 3, 515-20	50.5	332
138	Hypoxia-mediated down-regulation of Bid and Bax in tumors occurs via hypoxia-inducible factor 1-dependent and -independent mechanisms and contributes to drug resistance. <i>Molecular and Cellular Biology</i> , 2004 , 24, 2875-89	4.8	317
137	GLUT-1 and CAIX as intrinsic markers of hypoxia in carcinoma of the cervix: relationship to pimonidazole binding. <i>International Journal of Cancer</i> , 2003 , 104, 85-91	7.5	191
136	Tumour oxygenation levels correlate with dynamic contrast-enhanced magnetic resonance imaging parameters in carcinoma of the cervix. <i>Radiotherapy and Oncology</i> , 2000 , 57, 53-9	5.3	190
135	Clinical development of new drug-radiotherapy combinations. <i>Nature Reviews Clinical Oncology</i> , 2016 , 13, 627-42	19.4	162
134	Site and strain-specific variation in gut microbiota profiles and metabolism in experimental mice. <i>PLoS ONE</i> , 2010 , 5, e8584	3.7	153
133	Inhibition of PARP-1 by olaparib (AZD2281) increases the radiosensitivity of a lung tumor xenograft. <i>Molecular Cancer Therapeutics</i> , 2011 , 10, 1949-58	6.1	140
132	Utilizing the adjuvant properties of CD1d-dependent NK T cells in T cell-mediated immunotherapy. <i>Journal of Clinical Investigation</i> , 2004 , 114, 1800-1811	15.9	131
131	ZD6474, a potent inhibitor of vascular endothelial growth factor signaling, combined with radiotherapy: schedule-dependent enhancement of antitumor activity. <i>Clinical Cancer Research</i> , 2004 , 10, 8587-93	12.9	129
130	Enhanced response to radiotherapy in tumours deficient in the function of hypoxia-inducible factor-1. <i>Radiotherapy and Oncology</i> , 2005 , 75, 89-98	5.3	114
129	Hypoxia-inducible factor 1alpha expression as an intrinsic marker of hypoxia: correlation with tumor oxygen, pimonidazole measurements, and outcome in locally advanced carcinoma of the cervix. <i>Clinical Cancer Research</i> , 2004 , 10, 8405-12	12.9	112
128	Systemic delivery of a TLR7 agonist in combination with radiation primes durable antitumor immune responses in mouse models of lymphoma. <i>Blood</i> , 2013 , 121, 251-9	2.2	109
127	Reversing hypoxic cell chemoresistance in vitro using genetic and small molecule approaches targeting hypoxia inducible factor-1. <i>Molecular Pharmacology</i> , 2006 , 69, 411-8	4.3	104
126	RSU 1069, a nitroimidazole containing an aziridine group. Bioreduction greatly increases cytotoxicity under hypoxic conditions. <i>Biochemical Pharmacology</i> , 1986 , 35, 105-9	6	100
125	Mammalian cell toxicity of nitro compounds: dependence upon reduction potential. <i>Biochemical and Biophysical Research Communications</i> , 1976 , 72, 824-9	3.4	97

124	Inhibition of monocarboxylate transporter-1 (MCT1) by AZD3965 enhances radiosensitivity by reducing lactate transport. <i>Molecular Cancer Therapeutics</i> , 2014 , 13, 2805-16	6.1	91
123	Chitosan/Hyaluronic Acid Nanoparticles: Rational Design Revisited for RNA Delivery. <i>Molecular Pharmaceutics</i> , 2017 , 14, 2422-2436	5.6	88
122	Synthesis and evaluation of alpha-[[2-haloethyl]amino]methyl]-2-nitro-1H-imidazole-1-ethanols as prodrugs of alpha-[(1-aziridinyl)methyl]-2-nitro-1H-imidazole-1-ethanol (RSU-1069) and its analogues which are radiosensitizers and bioreductively activated cytotoxins. <i>Journal of Medicinal Chemistry</i> , 1990 , 33, 2603-10	8.3	76
121	Hypoxia targeted gene therapy to increase the efficacy of tirapazamine as an adjuvant to radiotherapy: reversing tumor radioresistance and effecting cure. <i>Cancer Research</i> , 2004 , 64, 1396-402	10.1	75
120	Metabolic changes detected by in vivo magnetic resonance studies of HEPA-1 wild-type tumors and tumors deficient in hypoxia-inducible factor-1beta (HIF-1beta): evidence of an anabolic role for the HIF-1 pathway. <i>Cancer Research</i> , 2002 , 62, 688-95	10.1	75
119	Inhibition of carbonic anhydrase activity modifies the toxicity of doxorubicin and melphalan in tumour cells in vitro. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2013 , 28, 360-9	5.6	72
118	Bioreductive drugs for cancer therapy: the search for tumor specificity. <i>International Journal of Radiation Oncology Biology Physics</i> , 1994 , 29, 231-8	4	72
117	A protective role for HIF-1 in response to redox manipulation and glucose deprivation: implications for tumorigenesis. <i>Oncogene</i> , 2002 , 21, 282-90	9.2	71
116	The differential hypoxic cytotoxicity of bioreductive agents determined in vitro by the MTT assay. <i>International Journal of Radiation Oncology Biology Physics</i> , 1989 , 16, 973-6	4	71
115	The CD44-Mediated Uptake of Hyaluronic Acid-Based Carriers in Macrophages. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601012	10.1	70
114	Synthesis and biological evaluation of coumarin-based inhibitors of NAD(P)H:quinone oxidoreductase-1 (NQO1). <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 7142-56	8.3	70
113	Expression of vascular endothelial growth factor (VEGF) in locally invasive prostate cancer is prognostic for radiotherapy outcome. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007 , 67, 84-90	4	67
112	iNOS as a therapeutic target for treatment of human tumors. <i>Nitric Oxide - Biology and Chemistry</i> , 2008 , 19, 217-24	5	65
111	Indolequinone antitumor agents: reductive activation and elimination from (5-methoxy-1-methyl-4,7-dioxoindol-3-yl)methyl derivatives and hypoxia-selective cytotoxicity in vitro. <i>Journal of Medicinal Chemistry</i> , 1998 , 41, 2720-31	8.3	61
110	Bioreductive activation of a series of indolequinones by human DT-diaphorase: structure-activity relationships. <i>Journal of Medicinal Chemistry</i> , 1999 , 42, 4071-80	8.3	58
109	Coumarin-based inhibitors of human NAD(P)H:quinone oxidoreductase-1. Identification, structure-activity, off-target effects and in vitro human pancreatic cancer toxicity. <i>Journal of Medicinal Chemistry</i> , 2007 , 50, 6316-25	8.3	56
108	Identification and functional analysis of SKA2 interaction with the glucocorticoid receptor. <i>Journal of Endocrinology</i> , 2008 , 198, 499-509	4.7	55
107	Comparison of doxycycline delivery methods for Tet-inducible gene expression in a subcutaneous xenograft model. <i>Journal of Biomolecular Techniques</i> , 2007 , 18, 120-3	1.1	52

106	Combining radiotherapy with AZD2171, a potent inhibitor of vascular endothelial growth factor signaling: pathophysiologic effects and therapeutic benefit. <i>Molecular Cancer Therapeutics</i> , 2007 , 6, 599-606	6.1	50
105	2-Cyclopropylindoloquinones and their analogues as bioreductively activated antitumor agents: structure-activity in vitro and efficacy in vivo. <i>Journal of Medicinal Chemistry</i> , 1997 , 40, 2335-46	8.3	49
104	A novel design strategy for stable metal complexes of nitrogen mustards as bioreductive prodrugs. <i>Journal of Medicinal Chemistry</i> , 2004 , 47, 5683-9	8.3	48
103	Breast cancer angiogenesis--new approaches to therapy via antiangiogenesis, hypoxic activated drugs, and vascular targeting. <i>Breast Cancer Research and Treatment</i> , 1996 , 38, 97-108	4.4	46
102	Induction of hypoxia in normal and malignant tissues by changing the oxygen affinity of hemoglobin--implications for therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 1986 , 12, 1299-302	4	46
101	Hypoxia and oxidative stress. Tumour hypoxia--therapeutic considerations. <i>Breast Cancer Research</i> , 2001 , 3, 328-31	8.3	44
100	Potential tumor-selective nitroimidazolylmethyluracil prodrug derivatives: inhibitors of the angiogenic enzyme thymidine phosphorylase. <i>Journal of Medicinal Chemistry</i> , 2003 , 46, 207-9	8.3	43
99	The role of hypoxia-inducible factor-1 in three-dimensional tumor growth, apoptosis, and regulation by the insulin-signaling pathway. <i>Cancer Research</i> , 2005 , 65, 4147-52	10.1	43
98	The mitogen-activated protein/extracellular signal-regulated kinase kinase 1/2 inhibitor AZD6244 (ARRY-142886) enhances the radiation responsiveness of lung and colorectal tumor xenografts. <i>Clinical Cancer Research</i> , 2009 , 15, 6619-29	12.9	42
97	Aminoimidazolylmethyluracil analogues as potent inhibitors of thymidine phosphorylase and their bioreductive nitroimidazolyl prodrugs. <i>Journal of Medicinal Chemistry</i> , 2005 , 48, 392-402	8.3	42
96	Reversal of P-glycoprotein-mediated multidrug resistance by pure anti-oestrogens and novel tamoxifen derivatives. <i>Biochemical Pharmacology</i> , 1994 , 48, 277-85	6	41
95	Inhibitors of NQO1: identification of compounds more potent than dicoumarol without associated off-target effects. <i>Biochemical Pharmacology</i> , 2011 , 81, 355-63	6	39
94	Bioreductive and gene therapy approaches to hypoxic diseases. <i>Advanced Drug Delivery Reviews</i> , 2001 , 53, 217-28	18.5	39
93	Evaluating the Efficiency of Hyaluronic Acid for Tumor Targeting via CD44. <i>Molecular Pharmaceutics</i> , 2019 , 16, 2481-2493	5.6	38
92	Mechanisms of hypoxic cell radiosensitization and the development of new sensitizers. <i>International Journal of Radiation Oncology Biology Physics</i> , 1982 , 8, 391-8	4	38
91	Preclinical anti-cancer activity and multiple mechanisms of action of a cationic silver complex bearing N-heterocyclic carbene ligands. <i>Cancer Letters</i> , 2017 , 403, 98-107	9.9	37
90	Pharmacological and biological evaluation of a series of substituted 1,4-naphthoquinone bioreductive drugs. <i>Biochemical Pharmacology</i> , 2004 , 68, 2107-16	6	37
89	Rescue of hypoxia-inducible factor-1alpha-deficient tumor growth by wild-type cells is independent of vascular endothelial growth factor. <i>Cancer Research</i> , 2002 , 62, 2962-70	10.1	37

88	The relative importance of NADPH: cytochrome c (P450) reductase for determining the sensitivity of human tumour cells to the indolequinone EO9 and related analogues lacking functionality at the C-2 and C-3 positions. <i>Biochemical Pharmacology</i> , 2000 , 59, 993-6	6	36
87	Cyclopropamitosenes, novel bioreductive anticancer agents. Synthesis, electrochemistry, and biological activity of 7-substituted cyclopropamitosenes and related indolequinones. <i>Journal of Medicinal Chemistry</i> , 1994 , 37, 3834-43	8.3	36
86	Chemical synthesis and biological evaluation of a NAD(P)H:quinone oxidoreductase-1 targeted tripartite quinone drug delivery system. <i>Molecular Cancer Therapeutics</i> , 2007 , 6, 3122-30	6.1	34
85	Synthesis of N-benzyl- and N-phenyl-2-amino-4,5-dihydrothiazoles and thioureas and evaluation as modulators of the isoforms of nitric oxide synthase. <i>Bioorganic and Medicinal Chemistry</i> , 2003 , 11, 4189-206	3.4	34
84	Investigation of radiosensitivity gene signatures in cancer cell lines. <i>PLoS ONE</i> , 2014 , 9, e86329	3.7	34
83	In vivo activation of the hypoxia-targeted cytotoxin AQ4N in human tumor xenografts. <i>Molecular Cancer Therapeutics</i> , 2009 , 8, 3266-75	6.1	32
82	A novel systemically administered Toll-like receptor 7 agonist potentiates the effect of ionizing radiation in murine solid tumor models. <i>International Journal of Cancer</i> , 2014 , 135, 820-9	7.5	30
81	Dissecting the role of multiple reductases in bioactivation and cytotoxicity of the antitumor agent 2,5-diaziridinyl-3-(hydroxymethyl)-6-methyl-1,4-benzoquinone (RH1). <i>Molecular Pharmacology</i> , 2008 , 74, 1657-65	4.3	30
80	In silico identification and biochemical characterization of novel inhibitors of NQO1. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006 , 16, 6246-54	2.9	29
79	Non-nuclear localized human NOSII enhances the bioactivation and toxicity of tirapazamine (SR4233) in vitro. <i>Molecular Pharmacology</i> , 2003 , 63, 1248-55	4.3	27
78	Combining bioreductive drugs and radiation for the treatment of solid tumors. <i>Seminars in Radiation Oncology</i> , 2003 , 13, 42-52	5.5	25
77	The response of spontaneous and transplantable murine tumors to vasoactive agents measured by ³¹ P magnetic resonance spectroscopy. <i>International Journal of Radiation Oncology Biology Physics</i> , 1992 , 22, 473-6	4	25
76	Pharmacological inhibitors of NAD(P)H quinone oxidoreductase, NQO1: structure/activity relationships and functional activity in tumour cells. <i>Biochemical Pharmacology</i> , 2010 , 80, 977-81	6	24
75	Synthesis and enzymatic evaluation of pyridinium-substituted uracil derivatives as novel inhibitors of thymidine phosphorylase. <i>Bioorganic and Medicinal Chemistry</i> , 2002 , 10, 525-30	3.4	24
74	Differentiation-associated staining with anti-pimonidazole antibodies in head and neck tumors. <i>Radiotherapy and Oncology</i> , 2004 , 70, 91-7	5.3	24
73	Monocarboxylate Transporter 1 (MCT1) is an independent prognostic biomarker in endometrial cancer. <i>BMC Clinical Pathology</i> , 2017 , 17, 27	3	23
72	The two common polymorphic forms of human NRH-quinone oxidoreductase 2 (NQO2) have different biochemical properties. <i>FEBS Letters</i> , 2014 , 588, 1666-72	3.8	23
71	Enzymology of the reduction of the novel fused pyrazine mono-n-oxide bioreductive drug, RB90740 roles for P450 reductase and cytochrome b5 reductase. <i>Biochemical Pharmacology</i> , 1996 , 51, 829-37	6	23

70	Dual-Function 2-Nitroimidazoles as Hypoxic Cell Radiosensitizers and Bioreductive Cytotoxins: In Vivo Evaluation in KHT Murine Sarcomas. <i>Radiation Research</i> , 1990 , 124, S38	3.1	23
69	Viral delivery of P450 reductase recapitulates the ability of constitutive overexpression of reductase enzymes to potentiate the activity of mitomycin C in human breast cancer xenografts. <i>Molecular Cancer Therapeutics</i> , 2003 , 2, 901-9	6.1	23
68	The role of DT-diaphorase in determining the sensitivity of human tumor cells to tirapazamine (SR 4233). <i>International Journal of Radiation Oncology Biology Physics</i> , 1994 , 29, 369-72	4	22
67	Glucocorticoid receptor over-expression promotes human small cell lung cancer apoptosis in vivo and thereby slows tumor growth. <i>Endocrine-Related Cancer</i> , 2010 , 17, 203-13	5.7	21
66	Overexpression of cytochrome P450 NADPH reductase sensitises MDA 231 breast carcinoma cells to 5-fluorouracil: possible mechanisms involved. <i>Toxicology in Vitro</i> , 2008 , 22, 582-8	3.6	21
65	Expression of xenobiotic-metabolizing enzymes by primary and secondary hepatic tumors in man. <i>International Journal of Radiation Oncology Biology Physics</i> , 1994 , 29, 277-83	4	21
64	Statin-induced metabolic reprogramming in head and neck cancer: a biomarker for targeting monocarboxylate transporters. <i>Scientific Reports</i> , 2018 , 8, 16804	4.9	21
63	Acetylation mediated by the p300/CBP-associated factor determines cellular energy metabolic pathways in cancer. <i>International Journal of Oncology</i> , 2013 , 42, 1961-72	4.4	20
62	Heterocyclic analogues of L-citrulline as inhibitors of the isoforms of nitric oxide synthase (NOS) and identification of N(delta)-(4,5-dihydrothiazol-2-yl)ornithine as a potent inhibitor. <i>Bioorganic and Medicinal Chemistry</i> , 1999 , 7, 1787-96	3.4	20
61	Non-symmetrical furan-amidines as novel leads for the treatment of cancer and malaria. <i>European Journal of Medicinal Chemistry</i> , 2016 , 111, 33-45	6.8	19
60	Effects of cytokine-induced macrophages on the response of tumor cells to banoxantrone (AQ4N). <i>Molecular Cancer Therapeutics</i> , 2009 , 8, 1261-9	6.1	19
59	Design, synthesis and enzymatic evaluation of 6-bridged imidazolyluracil derivatives as inhibitors of human thymidine phosphorylase. <i>Journal of Pharmacy and Pharmacology</i> , 2007 , 59, 537-47	4.8	19
58	The bioreductive agent RH1 and gamma-irradiation both cause G2/M cell cycle phase arrest and polyploidy in a p53-mutated human breast cancer cell line. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004 , 58, 376-85	4	19
57	Tirapazamine administered as a neoadjuvant to radiotherapy reduces metastatic dissemination. <i>Clinical Cancer Research</i> , 2005 , 11, 4212-6	12.9	19
56	Triazoloacridin-6-ones as novel inhibitors of the quinone oxidoreductases NQO1 and NQO2. <i>Bioorganic and Medicinal Chemistry</i> , 2010 , 18, 696-706	3.4	18
55	Analogues of 2-crotonyloxymethyl-(4R,5R,6R)-4,5,6-trihydroxycyclohex-2-enone (COTC) with anti-tumor properties. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 553-7	2.9	18
54	Dual responsive promoters to target therapeutic gene expression to radiation-resistant hypoxic tumor cells. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005 , 62, 213-22	4	18
53	Construction and characterization of multiple human colon cancer cell lines for inducibly regulated gene expression. <i>Journal of Cellular Biochemistry</i> , 2005 , 94, 1148-62	4.7	18

52	Exogenous and endogenous markers of tumour oxygenation status: definitive markers of tumour hypoxia?. <i>Advances in Experimental Medicine and Biology</i> , 2005 , 566, 285-94	3.6	18
51	ROLE OF THYMIDINE PHOSPHORYLASE IN AN IN VITRO MODEL OF HUMAN BLADDER CANCER INVASION. <i>Journal of Urology</i> , 2002 , 167, 1482-1486	2.5	18
50	Intravenous administration of the selective toll-like receptor 7 agonist DSR-29133 leads to anti-tumor efficacy in murine solid tumor models which can be potentiated by combination with fractionated radiotherapy. <i>Oncotarget</i> , 2016 , 7, 17035-46	3.3	18
49	Binding and Internalization in Receptor-Targeted Carriers: The Complex Role of CD44 in the Uptake of Hyaluronic Acid-Based Nanoparticles (siRNA Delivery). <i>Advanced Healthcare Materials</i> , 2019 , 8, e1901182	10.1	18
48	In silico screening reveals structurally diverse, nanomolar inhibitors of NQO2 that are functionally active in cells and can modulate NF- κ B signaling. <i>Molecular Cancer Therapeutics</i> , 2012 , 11, 194-203	6.1	17
47	Hypoxia in tumors: molecular targets for anti-cancer therapeutics. <i>Advances in Enzyme Regulation</i> , 2004 , 44, 93-108		17
46	Evaluation of the alkaline comet assay and urinary 3-methyladenine excretion for monitoring DNA damage in melanoma patients treated with dacarbazine and tamoxifen. <i>Cancer Chemotherapy and Pharmacology</i> , 2000 , 45, 111-9	3.5	17
45	Cyclopropamitosenes. <i>Anti-Cancer Drugs</i> , 1994 , 5, 367-372	2.4	17
44	Synthesis, characterisation and radiosensitizing properties of some nitroimidazole adducts of rhodium(II) carboxylates; X-ray structure of {Rh(CH ₃ CO ₂) ₂ -[1-(2-hydroxy-3-methoxypropyl)-2-methyl-5-nitroimidazole]} ₂ . <i>Inorganica Chimica Acta</i> , 1986 , 125, 143-149	2.7	17
43	Synthesis and enzymatic evaluation of xanthine oxidase-activated prodrugs based on inhibitors of thymidine phosphorylase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 5247-50	2.9	16
42	3-substituted-5-aziridinyl-1-methylindole-4,7-diones as NQO1-directed antitumour agents: mechanism of activation and cytotoxicity in vitro. <i>Biochemical Pharmacology</i> , 2003 , 66, 1199-206	6	16
41	Modification of metabolism of transplantable and spontaneous murine tumors by the nitric oxide synthase inhibitor, nitro-L-arginine. <i>International Journal of Radiation Oncology Biology Physics</i> , 1994 , 29, 443-7	4	16
40	S-2-amino-5-azolylpentanoic acids related to L-ornithine as inhibitors of the isoforms of nitric oxide synthase (NOS). <i>Bioorganic and Medicinal Chemistry</i> , 1998 , 6, 2139-49	3.4	15
39	Xanthine oxidase-activated prodrugs of thymidine phosphorylase inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2008 , 43, 1248-60	6.8	15
38	2-Nitroimidazole dual-function bioreductive drugs: studies on the effects of regioisomerism and side-chain structural modifications on differential cytotoxicity and radiosensitization by aziridinyl and oxiranyl derivatives. <i>Journal of Medicinal Chemistry</i> , 1992 , 35, 3573-8	8.3	15
37	The synthesis of 2-oxyalkyl-cyclohex-2-enones, related to the bioactive natural products COTC and antheminone A, which possess anti-tumour properties. <i>Tetrahedron</i> , 2010 , 66, 9049-9060	2.4	14
36	Arene cis-dihydrodiols: useful precursors for the preparation of analogues of the anti-tumour agent, 2-crotonyloxymethyl-(4R,5R,6R)-4,5,6-trihydroxycyclohex-2-enone (COTC). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 5974-7	2.9	14
35	Metabolic profiling of hypoxia-inducible factor-1 deficient and wild type Hepa-1 cells: effects of hypoxia measured by ¹ H magnetic resonance spectroscopy. <i>Metabolomics</i> , 2006 , 1, 293-303	4.7	14

34	(1H)Quinic acid: a versatile precursor for the synthesis of analogues of 2-crotonyloxymethyl-(4R,5R,6R)-4,5,6-trihydroxycyclohex-2-enone (COTC) which possess anti-tumour properties. <i>Tetrahedron Letters</i> , 2008 , 49, 2410-2413	2	13
33	Potential antitumour mitosenes: relationship between in vitro DNA interstrand cross-link formation and DNA damage in Escherichia coli K-12 strains. <i>Biochemical Pharmacology</i> , 1994 , 48, 1371-7	6	13
32	Evaluation of analogues of furan-amidines as inhibitors of NQO2. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018 , 28, 1292-1297	2.9	12
31	Novel inhibitors of NRH:quinone oxidoreductase 2 (NQO2): crystal structures, biochemical activity, and intracellular effects of imidazoacridin-6-ones. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 6597-611	8.3	12
30	The impact of intracellular generation of nitric oxide on the radiation response of human tumor cells. <i>Radiation Research</i> , 2009 , 171, 572-80	3.1	12
29	Antiangiogenic, bioreductive and gene therapy approaches to the treatment of hypoxic tumours. <i>Current Pharmaceutical Design</i> , 2002 , 8, 1319-33	3.3	12
28	Fused pyrazine mono-N-oxides as bioreductive drugs. III. Characterization of RB 90740 in vitro and in vivo. <i>Anti-Cancer Drugs</i> , 1995 , 6, 259-69	2.4	12
27	Akt inhibition improves long-term tumour control following radiotherapy by altering the microenvironment. <i>EMBO Molecular Medicine</i> , 2017 , 9, 1646-1659	12	11
26	Spectrophotometric analysis of nucleic acids: oxygenation-dependent hyperchromism of DNA. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 396, 2331-9	4.4	11
25	Negative Cooperativity in NAD(P)H Quinone Oxidoreductase 1 (NQO1). <i>ChemBioChem</i> , 2019 , 20, 2841-2849	3.49	10
24	Metal complexes as radiosensitizers: Cobalt(II), copper(II), rhodium(II) and platinum(II) complexes of 3-(1-imidazolyl)propionic acid and some nitro-substituted derivatives, and the crystal structure and radiosensitizer activity of [CuL2(H2O)]2 · 2H2O, where LH = 3-[1-(4-nitroimidazolyl)]propionic acid. <i>Polyhedron</i> , 1992 , 11, 2507-2515	2.7	10
23	Magnetic resonance spectroscopy studies on experimental murine and human tumors: comparison of changes in phosphorus metabolism with induced changes in vascular volume. <i>International Journal of Radiation Oncology Biology Physics</i> , 1992 , 22, 467-71	4	10
22	Hypoxia and hyperglycaemia determine why some endometrial tumours fail to respond to metformin. <i>British Journal of Cancer</i> , 2020 , 122, 62-71	8.7	10
21	In silico identification and biochemical evaluation of novel inhibitors of NRH:quinone oxidoreductase 2 (NQO2). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 7331-6	2.9	8
20	Time-dependence and preliminary SAR studies in inhibition of nitric oxide synthase isoforms by homologues of thiocitrulline. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003 , 13, 3679-80	2.9	8
19	Bioreductive drugs: selectivity towards hypoxic tissue. <i>Expert Opinion on Therapeutic Patents</i> , 1999 , 9, 1371-1380	6.8	8
18	Expression of NAD(P)H quinone dehydrogenase 1 (NQO1) is increased in the endometrium of women with endometrial cancer and women with polycystic ovary syndrome. <i>Clinical Endocrinology</i> , 2017 , 87, 557-565	3.4	6
17	Radiolytic and photochemical reduction of the hypoxic cytotoxin 1,2-dihydro-8-(4-methylpiperazinyl)-4-phenylimidazo [1,2-a] pyrido [3,2-e] pyrazine 5-oxide (RB90740) and a potential mechanism for hypoxia-selective toxicity. <i>International Journal of Radiation Oncology Biology Physics</i> , 1994 , 29, 333-7	4	6

16	Metal complexes of ligands containing intercalating units. Synthesis of nickel(II), copper(II), rhodium(II), and platinum(II) complexes with diamine-substituted acridines and quinolines, and with mitonafide [N-(2,2-dimethylaminoethyl)-3-nitro-1, 8-naphthalimide] and related ligands. <i>Transition Metal Chemistry</i> , 1991 , 16, 223-229	2.1	6
15	Discovery of potent 4-aminoquinoline hydrazone inhibitors of NRH:quinoneoxidoreductase-2 (NQO2). <i>European Journal of Medicinal Chemistry</i> , 2019 , 182, 111649	6.8	5
14	A comparison of the physiological effects of RSU1069 and RB6145 in the SCCVII murine tumour. <i>Acta Oncologica</i> , 1996 , 35, 989-94	3.2	5
13	Comparing the anti-tumor effect of several bioreductive drugs when used in combination with photodynamic therapy (PDT). <i>International Journal of Radiation Oncology Biology Physics</i> , 1994 , 29, 329-32	4	5
12	Radiation enhances the therapeutic effect of Banoxantrone in hypoxic tumour cells with elevated levels of nitric oxide synthase. <i>Oncology Reports</i> , 2016 , 35, 1925-32	3.5	5
11	Dual induction of the Epo-Egr-TNF-alpha- plasmid in hypoxic human colon adenocarcinoma produces tumor growth delay. <i>American Surgeon</i> , 2003 , 69, 24-7	0.8	5
10	31P MRS to monitor the induction of tumor hypoxia by the modification of the oxygen affinity of hemoglobin using BW 589C. <i>International Journal of Radiation Oncology Biology Physics</i> , 1994 , 29, 285-8	4	4
9	Serendipitous Discovery of a Cascade Approach to Perhydrodibenzofuranones Related to the Natural Product Incarviditone. <i>Synlett</i> , 2014 , 25, 1263-1266	2.2	3
8	Synthesis and cytotoxic activity of thiazolyl indolequinones. <i>Anti-Cancer Drugs</i> , 1999 , 10, 577-89	2.4	3
7	Pharmacokinetics, metabolism and distribution of 1,2-dihydro-8-(4-methylpiperazinyl)-4-phenylimidazo [1,2-A] pyrido [3,2-E] pyrazine-5-oxide in C3H mice. <i>International Journal of Radiation Oncology Biology Physics</i> , 1994 , 29, 339-44	4	3
6	Nitro derivatives of bi- and tri-cyclic heterocycles as potential radio-sensitizers. <i>European Journal of Medicinal Chemistry</i> , 1989 , 24, 511-516	6.8	3
5	A synthetic approach to novel carvotacetone and antheminone analogues with anti-tumour activity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013 , 23, 5066-9	2.9	2
4	Testing for hypoxia in forearm skin of patients with systemic sclerosis, assessed by pimonidazole. <i>Journal of Rheumatology</i> , 2010 , 37, 1968-9	4.1	2
3	Preincubation with electron affinic radiosensitizers followed by hyperthermia or X rays. <i>International Journal of Radiation Oncology Biology Physics</i> , 1982 , 8, 767-70	4	2
2	Combination of photodynamic therapy (PDT) and melphalan in experimental tumors. <i>International Journal of Radiation Oncology Biology Physics</i> , 1994 , 29, 463-6	4	1
1	Synthesis of hybrid natural product analogues with anti-tumour properties. <i>Tetrahedron</i> , 2016 , 72, 5433-5443	4.43	1