Mark W Dewhirst

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8837002/publications.pdf

Version: 2024-02-01

528 papers	42,044 citations	2423 97 h-index	3173 186 g-index
539 all docs	539 docs citations	539 times ranked	42390 citing authors

#	Article	IF	Citations
1	Glioma stem cells promote radioresistance by preferential activation of the DNA damage response. Nature, 2006, 444, 756-760.	13.7	5,600
2	Targeting lactate-fueled respiration selectively kills hypoxic tumor cells in mice. Journal of Clinical Investigation, 2008, 118, 3930-42.	3.9	1,225
3	Tumor hypoxia adversely affects the prognosis of carcinoma of the head and neck. International Journal of Radiation Oncology Biology Physics, 1997, 38, 285-289.	0.4	990
4	Radiation activates HIF-1 to regulate vascular radiosensitivity in tumors. Cancer Cell, 2004, 5, 429-441.	7.7	963
5	A dual-emissive-materials design concept enables tumour hypoxia imaging. Nature Materials, 2009, 8, 747-751.	13.3	941
6	Cycling hypoxia and free radicals regulate angiogenesis and radiotherapy response. Nature Reviews Cancer, 2008, 8, 425-437.	12.8	907
7	Tumor Vascular Permeability, Accumulation, and Penetration of Macromolecular Drug Carriers. Journal of the National Cancer Institute, 2006, 98, 335-344.	3.0	816
8	Thresholds for thermal damage to normal tissues: An update. International Journal of Hyperthermia, 2011, 27, 320-343.	1.1	541
9	Oxygenation of head and neck cancer: changes during radiotherapy and impact on treatment outcome. Radiotherapy and Oncology, 1999, 53, 113-117.	0.3	518
10	The development and testing of a new temperature-sensitive drug delivery system for the treatment of solid tumors. Advanced Drug Delivery Reviews, 2001, 53, 285-305.	6.6	506
11	Transport of drugs from blood vessels to tumour tissue. Nature Reviews Cancer, 2017, 17, 738-750.	12.8	499
12	Randomized Trial of Hyperthermia and Radiation for Superficial Tumors. Journal of Clinical Oncology, 2005, 23, 3079-3085.	0.8	498
13	Elevated tumor lactate concentrations predict for an increased risk of metastases in head-and-neck cancer. International Journal of Radiation Oncology Biology Physics, 2001, 51, 349-353.	0.4	469
14	Targeting the Lactate Transporter MCT1 in Endothelial Cells Inhibits Lactate-Induced HIF-1 Activation and Tumor Angiogenesis. PLoS ONE, 2012, 7, e33418.	1.1	412
15	Regulation of HIF-1Î± Stability through S-Nitrosylation. Molecular Cell, 2007, 26, 63-74.	4.5	399
16	Overcoming Limitations in Nanoparticle Drug Delivery: Triggered, Intravascular Release to Improve Drug Penetration into Tumors. Cancer Research, 2012, 72, 5566-5575.	0.4	398
17	Pleiotropic effects of HIF-1 blockade on tumor radiosensitivity. Cancer Cell, 2005, 8, 99-110.	7.7	381
18	Hypoxia and radiotherapy: opportunities for improved outcomes in cancer treatment. Cancer and Metastasis Reviews, 2007, 26, 241-248.	2.7	364

#	Article	IF	Citations
19	Tie2 Expression and Phosphorylation in Angiogenic and Quiescent Adult Tissues. Circulation Research, 1997, 81, 567-574.	2.0	354
20	Initial Stages of Tumor Cell-Induced Angiogenesis: Evaluation Via Skin Window Chambers in Rodent Models. Journal of the National Cancer Institute, 2000, 92, 143-147.	3.0	317
21	Re-setting the biologic rationale for thermal therapy. International Journal of Hyperthermia, 2005, 21, 779-790.	1.1	275
22	Sensitivity of hyperthermia trial outcomes to temperature and time: Implications for thermal goals of treatment. International Journal of Radiation Oncology Biology Physics, 1993, 25, 289-297.	0.4	262
23	Accuracy of MRI in the Detection of Residual Breast Cancer After Neoadjuvant Chemotherapy. American Journal of Roentgenology, 2003, 181, 1275-1282.	1.0	260
24	Tumor Angiogenic and Hypoxic Profiles Predict Radiographic Response and Survival in Malignant Astrocytoma Patients Treated With Bevacizumab and Irinotecan. Journal of Clinical Oncology, 2008, 26, 271-278.	0.8	259
25	Magnetic Resonance Imaging of Temperature-Sensitive Liposome Release: Drug Dose Painting and Antitumor Effects. Journal of the National Cancer Institute, 2007, 99, 53-63.	3.0	254
26	Hyperspectral imaging of hemoglobin saturation in tumor microvasculature and tumor hypoxia development. Journal of Biomedical Optics, 2005, 10, 044004.	1.4	253
27	Hyperthermia mediated liposomal drug delivery. International Journal of Hyperthermia, 2006, 22, 205-213.	1.1	248
28	Tumor metabolism of lactate: the influence and therapeutic potential for MCT and CD147 regulation. Future Oncology, 2010, 6, 127-148.	1.1	246
29	Thermosensitive liposomes: Extravasation and release of contents in tumor microvascular networks. International Journal of Radiation Oncology Biology Physics, 1996, 36, 1177-1187.	0.4	244
30	Comparison of tumor and normal tissue oxygen tension measurements using OxyLite or microelectrodes in rodents. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 280, H2533-H2544.	1.5	242
31	Analysis of the Effects of Oxygen Supply and Demand on Hypoxic Fraction in Tumors. Acta OncolÃ³gica, 1995, 34, 313-316.	0.8	238
32	The shunt problem: control of functional shunting in normal and tumour vasculature. Nature Reviews Cancer, 2010, 10, 587-593.	12.8	237
33	Tissue transglutaminase is expressed, active, and directly involved in rat dermal wound healing and angiogenesis. FASEB Journal, 1999, 13, 1787-1795.	0.2	233
34	Nanoscale Drug Delivery and Hyperthermia: The Materials Design and Preclinical and Clinical Testing of Low Temperature-Sensitive Liposomes Used in Combination with Mild Hyperthermia in the Treatment of Local Cancer. The Open Nanomedicine Journal, 2011, 3, 24-37.	1.6	227
35	In vivo optical molecular imaging and analysis in mice using dorsal window chamber models applied to hypoxia, vasculature and fluorescent reporters. Nature Protocols, 2011, 6, 1355-1366.	5.5	224
36	CEM43Â°C thermal dose thresholds: a potential guide for magnetic resonance radiofrequency exposure levels?. European Radiology, 2013, 23, 2215-2227.	2.3	222

#	Article	IF	Citations
37	Ascaris haemoglobin is a nitric oxide-activated â€˜deoxygenaseâ€™. Nature, 1999, 401, 497-502.	13.7	215
38	Relationships between Cycling Hypoxia, HIF-1, Angiogenesis and Oxidative Stress. Radiation Research, 2009, 172, 653-665.	0.7	208
39	Erythropoietin Biology in Cancer. Clinical Cancer Research, 2006, 12, 332-339.	3.2	201
40	Green's Function Methods for Analysis of Oxygen Delivery to Tissue by Microvascular Networks. Annals of Biomedical Engineering, 2004, 32, 1519-1529.	1.3	195
41	The Genomic Analysis of Lactic Acidosis and Acidosis Response in Human Cancers. PLoS Genetics, 2008, 4, e1000293.	1.5	188
42	Modulation of Murine Breast Tumor Vascularity, Hypoxia, and Chemotherapeutic Response by Exercise. Journal of the National Cancer Institute, 2015, 107, .	3.0	188
43	IL-6 trans-signaling licenses mouse and human tumor microvascular gateways for trafficking of cytotoxic T cells. Journal of Clinical Investigation, 2011, 121, 3846-3859.	3.9	187
44	Radiation-induced hypoxia may perpetuate late normal tissue injury. International Journal of Radiation Oncology Biology Physics, 2001, 50, 851-855.	0.4	183
45	A small molecular weight catalytic metalloporphyrin antioxidant with superoxide dismutase (SOD) mimetic properties protects lungs from radiation-induced injury. Free Radical Biology and Medicine, 2002, 33, 857-863.	1.3	180
46	Temperature Matters! And Why It Should Matter to Tumor Immunologists. Cancer Immunology Research, 2013, 1, 210-216.	1.6	180
47	In vivo monitoring of tissue pharmacokinetics of liposome/drug using MRI: Illustration of targeted delivery. Magnetic Resonance in Medicine, 2004, 51, 1153-1162.	1.9	176
48	The Pervasive Presence of Fluctuating Oxygenation in Tumors. Cancer Research, 2008, 68, 5812-5819.	0.4	163
49	Synergy between tumor immunotherapy and antiangiogenic therapy. Blood, 2003, 102, 964-971.	0.6	162
50	Expression of HIF-1Î±, CA IX, VEGF, and MMP-9 in surgically resected non-small cell lung cancer. Lung Cancer, 2005, 49, 325-335.	0.9	159
51	Structural Adaptation and Heterogeneity of Normal and Tumor Microvascular Networks. PLoS Computational Biology, 2009, 5, e1000394.	1.5	156
52	Effects and potential mechanisms of exercise training on cancer progression: A translational perspective. Brain, Behavior, and Immunity, 2013, 30, S75-S87.	2.0	154
53	Inhibition of rat corneal angiogenesis by a nuclease-resistant RNA aptamer specific for angiopoietin-2. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 5028-5033.	3.3	150
54	The G12 family of heterotrimeric G proteins promotes breast cancer invasion and metastasis. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8173-8178.	3.3	150

#	Article	IF	Citations
55	Formulation and characterisation of magnetic resonance imageable thermally sensitive liposomes for use with magnetic resonance-guided high intensity focused ultrasound. International Journal of Hyperthermia, 2011, 27, 140-155.	1.1	150
56	Functional Significance of Tie2 Signaling in the Adult Vasculature. Endocrine Reviews, 2004, 59, 51-71.	7.1	150
57	Catabolism of Exogenous Lactate Reveals It as a Legitimate Metabolic Substrate in Breast Cancer. PLoS ONE, 2013, 8, e75154.	1.1	149
58	Concepts of oxygen transport at the microcirculatory level. Seminars in Radiation Oncology, 1998, 8, 143-150.	1.0	145
59	Efficacy and Mechanisms of Aerobic Exercise on Cancer Initiation, Progression, and Metastasis: A Critical Systematic Review of In Vivo Preclinical Data. Cancer Research, 2016, 76, 4032-4050.	0.4	145
60	Observations on the Use of Ferromagnetic Implants for Inducing Hyperthermia. IEEE Transactions on Biomedical Engineering, 1984, BME-31, 76-90.	2.5	142
61	Thermal Cycling Enhances the Accumulation of a Temperature-Sensitive Biopolymer in Solid Tumors. Cancer Research, 2007, 67, 4418-4424.	0.4	142
62	Tumor Necrosis Factor-Î± Is a Potent Endogenous Mutagen that Promotes Cellular Transformation. Cancer Research, 2006, 66, 11565-11570.	0.4	141
63	Plasma <scp>d</scp>-Dimer Levels in Operable Breast Cancer Patients Correlate With Clinical Stage and Axillary Lymph Node Status. Journal of Clinical Oncology, 2000, 18, 600-600.	0.8	140
64	Use of Three-Dimensional Tissue Cultures to Model Extravascular Transport and Predict In Vivo Activity of Hypoxia-Targeted Anticancer Drugs. Journal of the National Cancer Institute, 2006, 98, 1118-1128.	3.0	139
65	Relationships among tumor temperature, treatment time, and histopathological outcome using preoperative hyperthermia with radiation in soft tissue sarcomas. International Journal of Radiation Oncology Biology Physics, 1992, 22, 989-998.	0.4	138
66	Phase I Trial of Doxorubicin-Containing Low Temperature Sensitive Liposomes in Spontaneous Canine Tumors. Clinical Cancer Research, 2006, 12, 4004-4010.	3.2	138
67	Estrogen-Related Receptor Î± Is Critical for the Growth of Estrogen Receptorâ€“Negative Breast Cancer. Cancer Research, 2008, 68, 8805-8812.	0.4	138
68	Comparative effects of thermosensitive doxorubicin-containing liposomes and hyperthermia in human and murine tumours. International Journal of Hyperthermia, 2010, 26, 485-498.	1.1	136
69	Thermochemoradiotherapy Improves Oxygenation in Locally Advanced Breast Cancer. Clinical Cancer Research, 2004, 10, 4287-4293.	3.2	131
70	NADPH oxidase-mediated reactive oxygen species production activates hypoxia-inducible factor-1 (HIF-1) via the ERK pathway after hyperthermia treatment. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 20477-20482.	3.3	130
71	Requirements for T Lymphocyte Migration in Explanted Lymph Nodes. Journal of Immunology, 2007, 178, 7747-7755.	0.4	127
72	Morphologic and hemodynamic comparison of tumor and healing normal tissue microvasculature. International Journal of Radiation Oncology Biology Physics, 1989, 17, 91-99.	0.4	126

#	Article	IF	Citations
73	Patterns and variability of tumor oxygenation in human soft tissue sarcomas, cervical carcinomas, and lymph node metastases. International Journal of Radiation Oncology Biology Physics, 1995, 32, 1121-1125.	0.4	126
74	Direct Demonstration of Instabilities in Oxygen Concentrations within the Extravascular Compartment of an Experimental Tumor. Cancer Research, 2006, 66, 2219-2223.	0.4	126
75	Angiogenesis: An Adaptive Dynamic Biological Patterning Problem. PLoS Computational Biology, 2013, 9, e1002983.	1.5	124
76	Intertumoral differences in hypoxia selectivity of the PET imaging agent 64Cu(II)-diacetyl-bis(N4-methylthiosemicarbazone). Journal of Nuclear Medicine, 2006, 47, 989-98.	2.8	124
77	Diverse functions of cationic Mn(III) N-substituted pyridylporphyrins, recognized as SOD mimics. Free Radical Biology and Medicine, 2011, 51, 1035-1053.	1.3	122
78	Gene Expression Profiles of Multiple Breast Cancer Phenotypes and Response to Neoadjuvant Chemotherapy. Clinical Cancer Research, 2006, 12, 819-826.	3.2	120
79	Chemodosimetry of in vivo tumor liposomal drug concentration using MRI. Magnetic Resonance in Medicine, 2006, 56, 1011-1018.	1.9	119
80	Enhancement of Hypoxia-Induced Tumor Cell Death In vitro and Radiation Therapy In vivo by Use of Small Interfering RNA Targeted to Hypoxia-Inducible Factor-1Î±. Cancer Research, 2004, 64, 8139-8142.	0.4	118
81	Overexpression of extracellular superoxide dismutase protects mice from radiation-induced lung injury. International Journal of Radiation Oncology Biology Physics, 2003, 57, 1056-1066.	0.4	117
82	Intravascular Location of Breast Cancer Cells after Spontaneous Metastasis to the Lung. American Journal of Pathology, 2002, 161, 749-753.	1.9	115
83	Preoperative Single-Fraction Partial Breast Radiation Therapy: A Novel Phase 1, Dose-Escalation Protocol With Radiation Response Biomarkers. International Journal of Radiation Oncology Biology Physics, 2015, 92, 846-855.	0.4	113
84	ERRÎ±-Regulated Lactate Metabolism Contributes to Resistance to Targeted Therapies in Breast Cancer. Cell Reports, 2016, 15, 323-335.	2.9	113
85	Circulating D-dimer levels are better predictors of overall survival and disease progression than carcinoembryonic antigen levels in patients with metastatic colorectal carcinoma. Cancer, 2004, 101, 77-82.	2.0	110
86	Modulation of Circulating Angiogenic Factors and Tumor Biology by Aerobic Training in Breast Cancer Patients Receiving Neoadjuvant Chemotherapy. Cancer Prevention Research, 2013, 6, 925-937.	0.7	109
87	Perspectives from manâ€™s best friend: National Academy of Medicineâ€™s Workshop on Comparative Oncology. Science Translational Medicine, 2016, 8, 324ps5.	5.8	108
88	Measuring tumor hypoxia. Seminars in Radiation Oncology, 1996, 6, 37-45.	1.0	107
89	Pretreatment oxygenation profiles of human soft tissue sarcomas. International Journal of Radiation Oncology Biology Physics, 1994, 30, 635-642.	0.4	106
90	In vivo BOLD contrast MRI mapping of subcutaneous vascular function and maturation: Validation by intravital microscopy. Magnetic Resonance in Medicine, 2001, 45, 887-898.	1.9	105

#	Article	IF	Citations
91	Early Wound Healing Exhibits Cytokine Surge Without Evidence of Hypoxia. Annals of Surgery, 2000, 231, 137.	2.1	104
92	Alternative inclusion of fibroblast growth factor receptor 2 exon IIIc in Dunning prostate tumors reveals unexpected epithelial mesenchymal plasticity. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 14116-14121.	3.3	104
93	Spatial Heterogeneity and Oxygen Dependence of Glucose Consumption in R3230Ac and Fibrosarcomas of the Fischer 344 Rat. Cancer Research, 2005, 65, 5163-5171.	0.4	103
94	Intermittent Hypoxia Furthers the Rationale for Hypoxia-Inducible Factor-1 Targeting: Figure 1.. Cancer Research, 2007, 67, 854-855.	0.4	103
95	Cumulative minutes with T90 greater than tempindex is predictive of response of superficial malignancies to hyperthermia and radiation. International Journal of Radiation Oncology Biology Physics, 1993, 25, 841-847.	0.4	102
96	Epinephrine-induced activation of LW-mediated sickle cell adhesion and vaso-occlusion in vivo. Blood, 2007, 110, 2708-2717.	0.6	101
97	Measurement of Material Extravasation in Microvascular Networks Using Fluorescence Video-Microscopy. Microvascular Research, 1993, 46, 231-253.	1.1	100
98	Recent progress in defining mechanisms and potential targets for prevention of normal tissue injury after radiation therapy. International Journal of Radiation Oncology Biology Physics, 2005, 62, 255-259.	0.4	100
99	Bromelain treatment decreases neutrophil migration to sites of inflammation. Clinical Immunology, 2008, 128, 66-74.	1.4	100
100	Effect of aerobic exercise on tumor physiology in an animal model of human breast cancer. Journal of Applied Physiology, 2010, 108, 343-348.	1.2	100
101	Molecular Imaging of Hypoxia. Journal of Nuclear Medicine, 2011, 52, 165-168.	2.8	100
102	Effect of Pazopanib on Tumor Microenvironment and Liposome Delivery. Molecular Cancer Therapeutics, 2010, 9, 1798-1808.	1.9	99
103	Exercise modulation of the host-tumor interaction in an orthotopic model of murine prostate cancer. Journal of Applied Physiology, 2012, 113, 263-272.	1.2	98
104	Design of Mn porphyrins for treating oxidative stress injuries and their redox-based regulation of cellular transcriptional activities. Amino Acids, 2012, 42, 95-113.	1.2	97
105	Long-term administration of a small molecular weight catalytic metalloporphyrin antioxidant, AEOL 10150, protects lungs from radiation-induced injury. International Journal of Radiation Oncology Biology Physics, 2007, 67, 573-580.	0.4	96
106	Tumor Cells Upregulate Normoxic HIF-1Î± in Response to Doxorubicin. Cancer Research, 2013, 73, 6230-6242.	0.4	95
107	Erythropoietin Blockade Inhibits the Induction of Tumor Angiogenesis and Progression. PLoS ONE, 2007, 2, e549.	1.1	93
108	Two phase I dose-escalation/pharmacokinetics studies of low temperature liposomal doxorubicin (LTLD) and mild local hyperthermia in heavily pretreated patients with local regionally recurrent breast cancer. International Journal of Hyperthermia, 2014, 30, 285-294.	1.1	93

#	Article	IF	Citations
109	Exercise as Adjunct Therapy in Cancer. Seminars in Radiation Oncology, 2019, 29, 16-24.	1.0	91
110	Antiangiogenic action of redox-modulating Mn(III) meso-tetrakis(N-ethylpyridinium-2-yl)porphyrin, MnTE-2-PyP5+, via suppression of oxidative stress in a mouse model of breast tumor. Free Radical Biology and Medicine, 2009, 47, 992-1004.	1.3	90
111	Tumor-dependent Kinetics of Partial Pressure of Oxygen Fluctuations during Air and Oxygen Breathing. Cancer Research, 2004, 64, 6010-6017.	0.4	89
112	Noninvasive visualization of tumors in rodent dorsal skin window chambers. Nature Biotechnology, 1999, 17, 1033-1035.	9.4	88
113	Systemic Overexpression of Angiopoietin-2 Promotes Tumor Microvessel Regression and Inhibits Angiogenesis and Tumor Growth. Cancer Research, 2007, 67, 3835-3844.	0.4	88
114	Carbonic Anhydrase IX in Early-Stage Nonâ€“Small Cell Lung Cancer. Clinical Cancer Research, 2004, 10, 7925-7933.	3.2	87
115	Overexpression of extracellular superoxide dismutase reduces acute radiation induced lung toxicity. BMC Cancer, 2005, 5, 59.	1.1	87
116	Perivascular Oxygen Tensions in a Transplantable Mammary Tumor Growing in a Dorsal Flap Window Chamber. Radiation Research, 1992, 130, 171.	0.7	86
117	Non-invasive monitoring of intra-tumor drug concentration and therapeutic response using optical spectroscopy. Journal of Controlled Release, 2010, 142, 457-464.	4.8	86
118	EFFECTS OF EXERCISE ON PROSTATE CANCER GROWTH IN A MOUSE MODEL. Journal of Urology, 2009, 181, 48-48.	0.2	85
119	Targeting tumor microvessels using doxorubicin encapsulated in a novel thermosensitive liposome. Molecular Cancer Therapeutics, 2004, 3, 1311-7.	1.9	85
120	The relationship between hypoxia and angiogenesis. Seminars in Radiation Oncology, 2004, 14, 215-221.	1.0	84
121	Observation of Incipient Tumor Angiogenesis That Is Independent of Hypoxia and Hypoxia Inducible Factor-1 Activation. Cancer Research, 2005, 65, 5498-5505.	0.4	83
122	Review of methods used to study oxygen transport at the microcirculatory level. International Journal of Cancer, 2000, 90, 237-255.	2.3	82
123	Thermal Dose Is Related to Duration of Local Control in Canine Sarcomas Treated with Thermoradiotherapy. Clinical Cancer Research, 2005, 11, 5206-5214.	3.2	82
124	The Role of Blood-Brain Barrier Permeability in Brain Tumor Imaging and Therapeutics. American Journal of Roentgenology, 2005, 185, 763-767.	1.0	82
125	Cyclic Hypoxia: An Update on Its Characteristics, Methods to Measure It and Biological Implications in Cancer. Cancers, 2021, 13, 23.	1.7	82
126	The treatment of high-grade soft tissue sarcomas with preoperative thermoradiotherapy. International Journal of Radiation Oncology Biology Physics, 1999, 45, 941-949.	0.4	81

#	Article	IF	Citations
127	Concerted regulation of skeletal muscle contractility by oxygen tension and endogenous nitric oxide. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 15229-15234.	3.3	81
128	The Potential Role of Intrinsic Hypoxia Markers as Prognostic Variables in Cancer. Antioxidants and Redox Signaling, 2007, 9, 1237-1294.	2.5	81
129	Fourier analysis of fluctuations of oxygen tension and blood flow in R3230Ac tumors and muscle in rats. American Journal of Physiology - Heart and Circulatory Physiology, 1999, 277, H551-H568.	1.5	80
130	A comparison of tumor and normal tissue microvascular hematocrits and red cell fluxes in a rat window chamber model. International Journal of Radiation Oncology Biology Physics, 1993, 25, 269-276.	0.4	79
131	Combined external beam irradiation and external regional hyperthermia for locally advanced adenocarcinoma of the prostate. International Journal of Radiation Oncology Biology Physics, 1997, 37, 1059-1065.	0.4	78
132	Cytokine profiling for prediction of symptomatic radiation-induced lung injury. International Journal of Radiation Oncology Biology Physics, 2005, 63, 1448-1454.	0.4	78
133	Hyperthermia combined with radiation therapy for superficial breast cancer and chest wall recurrence: A review of the randomised data. International Journal of Hyperthermia, 2010, 26, 612-617.	1.1	78
134	A methodology for using SPECT to reduce intensity-modulated radiation therapy (IMRT) dose to functioning lung. International Journal of Radiation Oncology Biology Physics, 2006, 66, 1543-1552.	0.4	77
135	Imaging Tumor Hypoxia to Advance Radiation Oncology. Antioxidants and Redox Signaling, 2014, 21, 313-337.	2.5	77
136	A manganese porphyrin superoxide dismutase mimetic enhances tumor radioresponsiveness. International Journal of Radiation Oncology Biology Physics, 2005, 63, 545-552.	0.4	73
137	Stereocomplexed Poly(lactic acid)â^'Poly(ethylene glycol) Nanoparticles with Dual-Emissive Boron Dyes for Tumor Accumulation. ACS Nano, 2010, 4, 4989-4996.	7.3	72
138	Interlaboratory variation in oxygen tension measurement by Eppendorf â€œHistographâ€•and comparison with hypoxic marker. , 1997, 66, 30-38.		71
139	Temporal changes in pO2 of R3230Ac tumors in fischer-344 rats. International Journal of Radiation Oncology Biology Physics, 1998, 42, 723-726.	0.4	70
140	A novel rodent mammary window of orthotopic breast cancer for intravital microscopy. Microvascular Research, 2003, 65, 109-117.	1.1	70
141	RNA Aptamer-targeted Inhibition of NF-ÎºB Suppresses Non-small Cell Lung Cancer Resistance to Doxorubicin. Molecular Therapy, 2008, 16, 66-73.	3.7	70
142	Doxorubicin-conjugated chimeric polypeptide nanoparticles that respond to mild hyperthermia. Journal of Controlled Release, 2012, 159, 362-367.	4.8	70
143	The future of biology in driving the field of hyperthermia. International Journal of Hyperthermia, 2016, 32, 4-13.	1.1	69
144	Optical imaging of tumor hypoxia dynamics. Journal of Biomedical Optics, 2010, 15, 1.	1.4	68

#	Article	IF	Citations
145	Improving the Predictive Value of Preclinical Studies in Support of Radiotherapy Clinical Trials. Clinical Cancer Research, 2016, 22, 3138-3147.	3.2	68
146	Pharmacokinetic and Phase I Evaluation of Carboplatin in Dogs. Journal of Veterinary Internal Medicine, 1993, 7, 235-240.	0.6	67
147	A phase I/II study of neoadjuvant liposomal doxorubicin, paclitaxel, and hyperthermia in locally advanced breast cancer. International Journal of Hyperthermia, 2010, 26, 514-521.	1.1	66
148	Hypoxia in the thymus: role of oxygen tension in thymocyte survival. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 282, H1467-H1477.	1.5	64
149	A pilot Phase II trial of concurrent radiotherapy, chemotherapy, and hyperthermia for locally advanced cervical carcinoma. Cancer, 2003, 98, 277-282.	2.0	64
150	Low molecular weight catalytic metalloporphyrin antioxidant AEOL 10150 protects lungs from fractionated radiation. Free Radical Research, 2007, 41, 1273-1282.	1.5	64
151	The impact of temperature and urinary constituents on urine viscosity and its relevance to bladder hyperthermia treatment. International Journal of Hyperthermia, 2013, 29, 206-210.	1.1	64
152	New PEG-ylated Mn(iii) porphyrins approaching catalytic activity of SOD enzyme. Dalton Transactions, 2006, , 617-624.	1.6	63
153	In vivo tumor targeting by a NGR-decorated micelle of a recombinant diblock copolypeptide. Journal of Controlled Release, 2011, 155, 144-151.	4.8	63
154	Tissue gradients of energy metabolites mirror oxygen tension gradients in a rat mammary carcinoma model. International Journal of Radiation Oncology Biology Physics, 2001, 51, 840-848.	0.4	62
155	Analysis of the Heterogeneity of pO2 Dynamics During Photodynamic Therapy with VerteporfinÂ¶. Photochemistry and Photobiology, 2001, 74, 700.	1.3	62
156	Erythropoietin inhibits apoptosis in breast cancer cells via an Akt-dependent pathway without modulating in vivo chemosensitivity. Molecular Cancer Therapeutics, 2006, 5, 356-361.	1.9	62
157	Lipophilicity of potent porphyrin-based antioxidants: Comparison of ortho and meta isomers of Mn(III) N-alkylpyridylporphyrins. Free Radical Biology and Medicine, 2009, 47, 72-78.	1.3	62
158	Prospective thermal dosimetry: The key to hyperthermia's future. International Journal of Hyperthermia, 2006, 22, 247-253.	1.1	61
159	A heterogeneous human tissue mimicking phantom for RF heating and MRI thermal monitoring verification. Physics in Medicine and Biology, 2012, 57, 2021-2037.	1.6	61
160	Novel Manganese-Porphyrin Superoxide Dismutase-Mimetic Widens the Therapeutic Margin in a Preclinical Head and Neck Cancer Model. International Journal of Radiation Oncology Biology Physics, 2015, 93, 892-900.	0.4	61
161	Preoperative hyperthermia and radiation for soft tissue sarcomas: Advantage of two vs one hyperthermia treatments per week. International Journal of Radiation Oncology Biology Physics, 1989, 16, 107-115.	0.4	60
162	Enhancement of radiotherapy by hyperthermia-regulated gene therapy. International Journal of Radiation Oncology Biology Physics, 2000, 48, 1513-1518.	0.4	60

#	Article	IF	Citations
163	HER-2 Gene Amplification Correlates with Higher Levels of Angiogenesis and Lower Levels of Hypoxia in Primary Breast Tumors. Clinical Cancer Research, 2004, 10, 4083-4088.	3.2	60
164	Radiofrequency ablation: The effect of distance and baseline temperature on thermal dose required for coagulation. International Journal of Hyperthermia, 2008, 24, 550-559.	1.1	60
165	Radioprotection of the Brain White Matter by Mn(III) N-Butoxyethylpyridylporphyrinâ€“Based Superoxide Dismutase Mimic MnTnBuOE-2-PyP5+. Molecular Cancer Therapeutics, 2015, 14, 70-79.	1.9	60
166	Interstitial hydraulic conductivity in a fibrosarcoma. American Journal of Physiology - Heart and Circulatory Physiology, 2000, 279, H2726-H2734.	1.5	59
167	Accuracy of real time noninvasive temperature measurements using magnetic resonance thermal imaging in patients treated for high grade extremity soft tissue sarcomas. Medical Physics, 2009, 36, 4848-4858.	1.6	59
168	Using Optical Spectroscopy to Longitudinally Monitor Physiological Changes within Solid Tumors. Neoplasia, 2009, 11, 889-900.	2.3	57
169	Longitudinal optical imaging of tumor metabolism and hemodynamics. Journal of Biomedical Optics, 2010, 15, 011112.	1.4	57
170	Rational Design of â€œHeat Seekingâ€•Drug Loaded Polypeptide Nanoparticles That Thermally Target Solid Tumors. Nano Letters, 2014, 14, 2890-2895.	4.5	57
171	Hyperthermia quality assurance guidelines. International Journal of Radiation Oncology Biology Physics, 1989, 16, 571-587.	0.4	56
172	A Network of Substrates of the E3 Ubiquitin Ligases MDM2 and HUWE1 Control Apoptosis Independently of p53. Science Signaling, 2013, 6, ra32.	1.6	56
173	Anticancer therapeutic potential of Mn porphyrin/ascorbate system. Free Radical Biology and Medicine, 2015, 89, 1231-1247.	1.3	56
174	Tumor microvascular permeability is a key determinant for antivascular effects of doxorubicin encapsulated in a temperature sensitive liposome. International Journal of Hyperthermia, 2008, 24, 475-482.	1.1	55
175	Real-time MRI-guided hyperthermia treatment using a fast adaptive algorithm. Physics in Medicine and Biology, 2009, 54, 2131-2145.	1.6	55
176	Flaxseed-Derived Enterolactone Is Inversely Associated with Tumor Cell Proliferation in Men with Localized Prostate Cancer. Journal of Medicinal Food, 2013, 16, 357-360.	0.8	55
177	SU5416 Delays Wound Healing Through Inhibition of TGF-Î² Activation. Cancer Biology and Therapy, 2002, 1, 121-126.	1.5	54
178	Analysis of tumor environmental response and oncogenic pathway activation identifies distinct basal and luminal features in HER2-related breast tumor subtypes. Breast Cancer Research, 2011, 13, R62.	2.2	54
179	ErbB1/2 tyrosine kinase inhibitor mediates oxidative stress-induced apoptosis in inflammatory breast cancer cells. Breast Cancer Research and Treatment, 2012, 132, 109-119.	1.1	54
180	A pilot clinical trial of intravesical mitomycin-C and external deep pelvic hyperthermia for non-muscle-invasive bladder cancer. International Journal of Hyperthermia, 2014, 30, 171-175.	1.1	54

#	Article	IF	Citations
181	Camptothecin analogs with enhanced activity against human breast cancer cells. II. Impact of the tumor pH gradient. Cancer Chemotherapy and Pharmacology, 2006, 57, 145-154.	1.1	53
182	Quantitative optical spectroscopy can identify long-term local tumor control in irradiated murine head and neck xenografts. Journal of Biomedical Optics, 2009, 14, 054051.	1.4	53
183	Multidisciplinary Mentoring Programs to Enhance Junior Faculty Research Grant Success. Academic Medicine, 2017, 92, 1410-1415.	0.8	53
184	Nanoparticle formulation improves doxorubicin efficacy by enhancing host antitumor immunity. Journal of Controlled Release, 2018, 269, 364-373.	4.8	52
185	Thermal dose requirement for tissue effect: experimental and clinical findings. , 2003, 4954, 37.		51
186	Bevacizumab-Induced Alterations in Vascular Permeability and Drug Delivery: A Novel Approach to Augment Regional Chemotherapy for In-Transit Melanoma. Clinical Cancer Research, 2012, 18, 3328-3339.	3.2	51
187	Rationalization of thermal injury quantification methods: Application to skin burns. Burns, 2014, 40, 896-902.	1.1	51
188	Preliminary results of a phase III trial of spontaneous animal tumors to heat and/or radiation: early normal tissue response and tumor volume influence on initial response. International Journal of Radiation Oncology Biology Physics, 1982, 8, 1951-1961.	0.4	50
189	Variability in blood flow and pO2 in tumors in response to carbogen breathing. International Journal of Radiation Oncology Biology Physics, 1998, 42, 855-859.	0.4	50
190	Camptothecin analogues with enhanced antitumor activity at acidic pH. Cancer Chemotherapy and Pharmacology, 2000, 46, 263-271.	1.1	50
191	Combination Treatment of Murine Tumors by Adenovirus-Mediated Local B7/IL12 Immunotherapy and Radiotherapy. Molecular Therapy, 2000, 2, 195-203.	3.7	50
192	Inhibition of In Vivo Tumor Angiogenesis and Growth Via Systemic Delivery of an Angiopoietin 2-Specific RNA Aptamer. Journal of Surgical Research, 2008, 146, 16-23.	0.8	50
193	Cytotoxic effects of Mn(III)N-alkylpyridylporphyrins in the presence of cellular reductant, ascorbate. Free Radical Research, 2011, 45, 1289-1306.	1.5	50
194	Structural Adaptation of Normal and Tumour Vascular Networks. Basic and Clinical Pharmacology and Toxicology, 2012, 110, 63-69.	1.2	50
195	Doxorubicin-conjugated polypeptide nanoparticles inhibit metastasis in two murine models of carcinoma. Journal of Controlled Release, 2015, 208, 52-58.	4.8	50
196	Novel Imaging Provides New Insights into Mechanisms of Oxygen Transport in Tumors. Current Molecular Medicine, 2009, 9, 435-441.	0.6	49
197	Inhibition of radiation-induced up-regulation of leukocyte adhesion to endothelial cells with the platelet-activating factor inhibitor, BN52021. International Journal of Radiation Oncology Biology Physics, 1995, 33, 627-633.	0.4	48
198	Artificial Neural Network Model of Survival in Patients Treated With Irradiation With and Without Concurrent Chemotherapy for Advanced Carcinoma of the Head and Neck. International Journal of Radiation Oncology Biology Physics, 1998, 41, 339-345.	0.4	48

#	Article	IF	Citations
199	Effect of Low-Fat Diets on Plasma Levels of NF-Î²Bâ€“Regulated Inflammatory Cytokines and Angiogenic Factors in Men with Prostate Cancer. Cancer Prevention Research, 2011, 4, 1590-1598.	0.7	48
200	Radiation induces aerobic glycolysis through reactive oxygen species. Radiotherapy and Oncology, 2013, 106, 390-396.	0.3	48
201	Oxygen-Enhanced MRI Is a Major Advance in Tumor Hypoxia Imaging. Cancer Research, 2016, 76, 769-772.	0.4	48
202	Use of in vivo bioluminescence imaging to predict hepatic tumor burden in mice. Journal of Surgical Research, 2004, 120, 249-255.	0.8	47
203	Estimation of therapeutic gain in clinical trials involving hyperthermia and radiotherapy. International Journal of Hyperthermia, 1986, 2, 165-178.	1.1	46
204	Dietary Glycine Inhibits Angiogenesis During Wound Healing and Tumor Growth. Cancer Biology and Therapy, 2003, 2, 173-178.	1.5	46
205	Predicting Lung Radiotherapy-Induced Pneumonitis Using a Model Combining Parametric Lyman Probit With Nonparametric Decision Trees. International Journal of Radiation Oncology Biology Physics, 2007, 68, 1212-1221.	0.4	46
206	Low-Carbohydrate Diets and Prostate Cancer: How Low Is â€œLow Enoughâ€?. Cancer Prevention Research, 2010, 3, 1124-1131.	0.7	46
207	Hyperthermia for locally advanced breast cancer. International Journal of Hyperthermia, 2010, 26, 618-624.	1.1	46
208	PET of Hypoxia and Perfusion with ⁶²Cu-ATSM and ⁶²Cu-PTSM Using a ⁶²Zn/⁶²Cu Generator. American Journal of Roentgenology, 2008, 190, 427-432.	1.0	45
209	Magnetic fluid hyperthermia for bladder cancer: A preclinical dosimetry study. International Journal of Hyperthermia, 2013, 29, 835-844.	1.1	45
210	MIBG inhibits respiration: potential for radio- and hyperthermic sensitization. International Journal of Radiation Oncology Biology Physics, 1998, 42, 871-876.	0.4	44
211	Raising the Bar: How HIF-1 Helps Determine Tumor Radiosensitivity. Cell Cycle, 2004, 3, 1105-1108.	1.3	44
212	Angiostatin-Like Activity of a Monoclonal Antibody to the Catalytic Subunit of F1F0 ATP Synthase. Cancer Research, 2007, 67, 4716-4724.	0.4	44
213	Exploring the role of HIF-1 in early angiogenesis and response to radiotherapy. Radiotherapy and Oncology, 2007, 83, 249-255.	0.3	44
214	DCE-MRI parameters have potential to predict response of locally advanced breast cancer patients to neoadjuvant chemotherapy and hyperthermia: A pilot study. International Journal of Hyperthermia, 2009, 25, 405-415.	1.1	44
215	Actively targeting solid tumours with thermoresponsive drug delivery systems that respond to mild hyperthermia. International Journal of Hyperthermia, 2013, 29, 501-510.	1.1	44
216	Common Responses of Tumors and Wounds to Hypoxia. Cancer Journal (Sudbury, Mass), 2015, 21, 75-87.	1.0	44

#	Article	IF	Citations
217	A unique role of the DNA fragmentation factor in maintaining genomic stability. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 1504-1509.	3.3	43
218	Spectral imaging facilitates visualization and measurements of unstable and abnormal microvascular oxygen transport in tumors. Journal of Biomedical Optics, 2008, 13, 014026.	1.4	43
219	Durable palliation of breast cancer chest wall recurrence with radiation therapy, hyperthermia, and chemotherapy. Radiotherapy and Oncology, 2010, 97, 535-540.	0.3	43
220	Response of canine oral carcinomas to heat and radiation. International Journal of Radiation Oncology Biology Physics, 1987, 13, 1861-1867.	0.4	42
221	Oxygen Regulation of Tumor Perfusion by S -Nitrosohemoglobin Reveals a Pressor Activity of Nitric Oxide. Circulation Research, 2005, 96, 1119-1126.	2.0	42
222	Optimizing a Novel Regional Chemotherapeutic Agent against Melanoma: Hyperthermia-Induced Enhancement of Temozolomide Cytotoxicity. Clinical Cancer Research, 2006, 12, 289-297.	3.2	42
223	Fast temperature optimization of multi-source hyperthermia applicators with reduced-order modeling of â€˜virtual sourcesâ€™. Physics in Medicine and Biology, 2008, 53, 1619-1635.	1.6	42
224	Quantitative diffuse reflectance and fluorescence spectroscopy: tool to monitor tumor physiology in vivo. Journal of Biomedical Optics, 2009, 14, 024010.	1.4	42
225	Inflammatory breast cancer tumor emboli express high levels of anti-apoptotic proteins: use of a quantitative high content and high-throughput 3D IBC spheroid assay to identify targeting strategies. Oncotarget, 2017, 8, 25848-25863.	0.8	42
226	A Tracer Dose of Technetium-99mâ€“Labeled Liposomes Can Estimate the Effect of Hyperthermia on Intratumoral Doxil Extravasation. Clinical Cancer Research, 2006, 12, 6800-6807.	3.2	41
227	Rationale for and measurement of liposomal drug delivery with hyperthermia using non-invasive imaging techniques. International Journal of Hyperthermia, 2008, 24, 79-90.	1.1	41
228	Nucleophilic Addition of Organozinc Reagents to 2-Sulfonyl Cyclic Ethers: Stereoselective Synthesis of Manassantins A and B. Organic Letters, 2009, 11, 89-92.	2.4	41
229	Combined hyperspectral and spectral domain optical coherence tomography microscope for noninvasive hemodynamic imaging. Optics Letters, 2009, 34, 289.	1.7	41
230	Carbohydrate restriction and lactate transporter inhibition in a mouse xenograft model of human prostate cancer. BJU International, 2012, 110, 1062-1069.	1.3	41
231	HIF-1 Alpha Regulates the Response of Primary Sarcomas to Radiation Therapy through a Cell Autonomous Mechanism. Radiation Research, 2015, 183, 594.	0.7	41
232	Can Exercise-Induced Modulation of the Tumor Physiologic Microenvironment Improve Antitumor Immunity?. Cancer Research, 2019, 79, 2447-2456.	0.4	41
233	Influence of wr 2721 on radiation response of canine soft tissue sarcomas. International Journal of Radiation Oncology Biology Physics, 1986, 12, 1957-1963.	0.4	40
234	Therapy monitoring in human and canine soft tissue sarcomas using magnetic resonance imaging and spectroscopy. International Journal of Radiation Oncology Biology Physics, 1994, 28, 415-423.	0.4	39

#	Article	IF	Citations
235	Simultaneous Measurement of Liposome Extravasation and Content Release in Tumors. Microcirculation, 1997, 4, 83-101.	1.0	39
236	Responses of vascular endothelial cells to angiogenic signaling are important for tumor cell survival. FASEB Journal, 2004, 18, 326-328.	0.2	39
237	The effect of carbohydrate restriction on prostate cancer tumor growth in a castrate mouse xenograft model. Prostate, 2013, 73, 449-454.	1.2	39
238	Local control and distant metastases in primary canine malignant melanomas treated with hyperthermia and/or radiotherapy. International Journal of Hyperthermia, 1985, 1, 219-234.	1.1	38
239	Radiation plus local hyperthermia versus radiation plus the combination of local and whole-body hyperthermia in canine sarcomas. International Journal of Radiation Oncology Biology Physics, 1996, 34, 1087-1096.	0.4	38
240	Simultaneous administration of glucose and hyperoxic gas achieves greater improvement in tumor oxygenation than hyperoxic gas alone. International Journal of Radiation Oncology Biology Physics, 2001, 51, 494-506.	0.4	38
241	Optical clearing of unsectioned specimens for three-dimensional imaging via optical transmission and emission tomography. Journal of Biomedical Optics, 2008, 13, 021113.	1.4	38
242	Proton and hyperpolarized helium magnetic resonance imaging of radiation-induced lung injury in rats. International Journal of Radiation Oncology Biology Physics, 2004, 58, 1562-1569.	0.4	37
243	Linking the History of Radiation Biology to the Hallmarks of Cancer. Radiation Research, 2014, 181, 561-577.	0.7	37
244	Drug development of lyso-thermosensitive liposomal doxorubicin: Combining hyperthermia and thermosensitive drug delivery. Advanced Drug Delivery Reviews, 2021, 178, 113985.	6.6	37
245	Human recombinant erythropoietin significantly improves tumor oxygenation independent of its effects on hemoglobin. Cancer Research, 2003, 63, 6162-5.	0.4	37
246	Three-dimensional imaging of whole rodent organs using optical computed and emission tomography. Journal of Biomedical Optics, 2007, 12, 014009.	1.4	36
247	Effect of longitudinal oxygen gradients on effectiveness of manipulation of tumor oxygenation. Cancer Research, 2003, 63, 4705-12.	0.4	36
248	A Mathematical Model of Tumor Oxygen and Glucose Mass Transport and Metabolism with Complex Reaction Kinetics. Radiation Research, 2003, 159, 336-344.	0.7	35
249	A phase I trial of hyperthermia-induced interleukin-12 gene therapy in spontaneously arising feline soft tissue sarcomas. Molecular Cancer Therapeutics, 2007, 6, 380-389.	1.9	35
250	Development of enhanced ethanol ablation as an alternative to surgery in treatment of superficial solid tumors. Scientific Reports, 2017, 7, 8750.	1.6	35
251	E-Cadherin Represses Anchorage-Independent Growth in Sarcomas through Both Signaling and Mechanical Mechanisms. Molecular Cancer Research, 2019, 17, 1391-1402.	1.5	35
252	Radiation and a metalloporphyrin radioprotectant in a mouse prostate tumor model. Anticancer Research, 2007, 27, 3101-9.	0.5	35

#	Article	IF	Citations
253	A pilot study of preoperative continuous infusion 5-fluorouracil, external microwave hyperthermia, and external beam radiotherapy for treatment of locally advanced, unresectable, or recurrent rectal cancer. International Journal of Radiation Oncology Biology Physics, 2000, 47, 719-724.	0.4	34
254	Intravital Fluorescence Facilitates Measurement of Multiple Physiologic Functions and Gene Expression in Tumors of Live Animals. Disease Markers, 2002, 18, 293-311.	0.6	34
255	Synergistic effects of hyperoxic gas breathing and reduced oxygen consumption on tumor oxygenation: a theoretical model. International Journal of Radiation Oncology Biology Physics, 2004, 59, 572-578.	0.4	34
256	Development of Magnetic Resonance Imaging Contrast Material for In vivo Mapping of Tissue Transglutaminase Activity. Cancer Research, 2005, 65, 1369-1375.	0.4	33
257	Extracellular pH and P-31 Magnetic Resonance Spectroscopic Variables are Related to Outcome in Canine Soft Tissue Sarcomas Treated with Thermoradiotherapy. Clinical Cancer Research, 2006, 12, 5733-5740.	3.2	33
258	Online feedback focusing algorithm for hyperthermia cancer treatment. International Journal of Hyperthermia, 2007, 23, 539-554.	1.1	33
259	Utility of treatment planning for thermochemotherapy treatment of nonmuscle invasive bladder carcinoma. Medical Physics, 2012, 39, 1170-1181.	1.6	33
260	Effect of hypertherrnia on cisplatin pharrnacokinetics in normal dogs. International Journal of Hyperthermia, 1986, 2, 351-358.	1.1	32
261	In Vivo Bioluminescence Imaging Monitoring of Hypoxia-Inducible Factor 1Î±, a Promoter That Protects Cells, in Response to Chemotherapy. American Journal of Roentgenology, 2008, 191, 1779-1784.	1.0	32
262	Dynamic Contrast-enhanced Magnetic Resonance Imaging as a Predictor of Clinical Outcome in Canine Spontaneous Soft Tissue Sarcomas Treated with Thermoradiotherapy. Clinical Cancer Research, 2009, 15, 4993-5001.	3.2	32
263	Luminescent Difluoroboron Î²â€Diketonate PEGâ€PLA Oxygen Nanosensors for Tumor Imaging. Macromolecular Rapid Communications, 2015, 36, 694-699.	2.0	32
264	The Role of Hyperthermia in Regional Alkylating Agent Chemotherapy. Clinical Cancer Research, 2004, 10, 5919-5929.	3.2	31
265	¹⁸F-EF5 PET Imaging as an Early Response Biomarker for the Hypoxia-Activated Prodrug SN30000 Combined with Radiation Treatment in a Nonâ€“Small Cell Lung Cancer Xenograft Model. Journal of Nuclear Medicine, 2013, 54, 1339-1346.	2.8	31
266	Automated temperature scanning for hyperthermia treatment monitoring. International Journal of Radiation Oncology Biology Physics, 1987, 13, 1377-1382.	0.4	30
267	Multiple Etiologies of Tumor Hypoxia Require Multifaceted Solutions: Fig. 1.. Clinical Cancer Research, 2007, 13, 375-377.	3.2	30
268	Elevated CAIX Expression is Associated with an Increased Risk of Distant Failure in Early-Stage Cervical Cancer. Biomarker Insights, 2008, 3, BMI.S570.	1.0	30
269	Bioavailability of metalloporphyrin-based SOD mimics is greatly influenced by a single charge residing on a Mn site. Free Radical Research, 2011, 45, 188-200.	1.5	30
270	Comparison of Genomics and Functional Imaging from Canine Sarcomas Treated with Thermoradiotherapy Predicts Therapeutic Response and Identifies Combination Therapeutics. Clinical Cancer Research, 2011, 17, 2549-2560.	3.2	30

#	Article	IF	Citations
271	Novel Approaches to Treatment of Hepatocellular Carcinoma and Hepatic Metastases Using Thermal Ablation and Thermosensitive Liposomes. Surgical Oncology Clinics of North America, 2013, 22, 545-561.	0.6	30
272	A Pial Window Model for the Intracranial Study of Human Glioma Microvascular Function. Neurosurgery, 1995, 36, 976-985.	0.6	29
273	Resveratrol worsens survival in SCID mice with prostate cancer xenografts in a cellâ€line specific manner, through paradoxical effects on oncogenic pathways. Prostate, 2013, 73, 754-762.	1.2	29
274	Effects of hyperthermia in neutralising mechanisms of drug resistance in non-muscle-invasive bladder cancer. International Journal of Hyperthermia, 2016, 32, 434-445.	1.1	29
275	Rationale for hypoxia assessment and amelioration for precision therapy and immunotherapy studies. Journal of Clinical Investigation, 2019, 129, 489-491.	3.9	29
276	Reduction of wound angiogenesis in patients treated with BMS-275291, a broad spectrum matrix metalloproteinase inhibitor. Clinical Cancer Research, 2003, 9, 586-93.	3.2	29
277	Intraperitoneal cisplatin and regional hyperthermia for ovarian carcinoma. International Journal of Radiation Oncology Biology Physics, 1993, 27, 1245-1251.	0.4	28
278	A theoretical model for the effects of reduced hemoglobin-oxygen affinity on tumor oxygenation. International Journal of Radiation Oncology Biology Physics, 2002, 53, 172-179.	0.4	28
279	Relation between pO2, 31P magnetic resonance spectroscopy parameters and treatment outcome in patients with high-grade soft tissue sarcomas treated with thermoradiotherapy. International Journal of Radiation Oncology Biology Physics, 2005, 61, 480-491.	0.4	28
280	Cellular Redox Modulator, ortho Mn(III) meso-tetrakis(N-n-Hexylpyridinium-2-yl)porphyrin, MnTnHex-2-PyP5+ in the Treatment of Brain Tumors. Anti-Cancer Agents in Medicinal Chemistry, 2011, 11, 202-212.	0.9	28
281	Hyperbaric Oxygen Improves Tumor Radiation Response Significantly More Than Carbogen/Nicotinamide. Radiation Research, 1997, 147, 715.	0.7	27
282	Role of incipient angiogenesis in cancer metastasis. Cancer and Metastasis Reviews, 2000, 19, 7-11.	2.7	27
283	Those in gene therapy should pay closer attention to lessons from hyperthermia. International Journal of Radiation Oncology Biology Physics, 2003, 57, 597-599.	0.4	27
284	Predicting radiotherapy-induced cardiac perfusion defects. Medical Physics, 2004, 32, 19-27.	1.6	27
285	Targeted bioavailability of drugs by triggered release from liposomes. Future Lipidology, 2006, 1, 25-34.	0.5	27
286	Delivery Rate Affects Uptake of a Fluorescent Glucose Analog in Murine Metastatic Breast Cancer. PLoS ONE, 2013, 8, e76524.	1.1	27
287	Thermal dosimetry characteristics of deep regional heating of non-muscle invasive bladder cancer. International Journal of Hyperthermia, 2014, 30, 176-183.	1.1	27
288	Prognostic significance of differential expression of angiogenic genes in women with high-grade serous ovarian carcinoma. Gynecologic Oncology, 2015, 139, 23-29.	0.6	27

#	Article	IF	Citations
289	Discovery of Manassantin A Protein Targets Using Large-Scale Protein Folding and Stability Measurements. Journal of Proteome Research, 2016, 15, 2688-2696.	1.8	27
290	Encapsulating a Hydrophilic Chemotherapeutic into Rodâ€Like Nanoparticles of a Genetically Encoded Asymmetric Triblock Polypeptide Improves Its Efficacy. Advanced Functional Materials, 2017, 27, 1605421.	7.8	27
291	Intersociety Council on Radiation Oncology Essay on the Introduction of New Medical Treatments Into Practice. Journal of the National Cancer Institute, 1993, 85, 951-957.	3.0	26
292	FAS Death Receptor: A Breast Cancer Subtype-Specific Radiation Response Biomarker and Potential Therapeutic Target. Radiation Research, 2015, 184, 456.	0.7	26
293	Clinical and Pre-clinical Methods for Quantifying Tumor Hypoxia. Advances in Experimental Medicine and Biology, 2019, 1136, 19-41.	0.8	26
294	Individual responses to chemotherapy-induced oxidative stress. Breast Cancer Research and Treatment, 2011, 125, 583-589.	1.1	25
295	Evolution of Thermal Dosimetry for Application of Hyperthermia to Treat Cancer. Advances in Heat Transfer, 2015, 47, 397-421.	0.4	25
296	Oxygen and Perfusion Kinetics in Response to Fractionated Radiation Therapy in FaDu Head and Neck Cancer Xenografts Are Related to Treatment Outcome. International Journal of Radiation Oncology Biology Physics, 2016, 96, 462-469.	0.4	25
297	Raising the bar: how HIF-1 helps determine tumor radiosensitivity. Cell Cycle, 2004, 3, 1107-10.	1.3	25
298	Three-dimensional imaging of xenograft tumors using optical computed and emission tomography. Medical Physics, 2006, 33, 3193-3202.	1.6	24
299	Analysis of HIF-1 inhibition by manassantin A and analogues with modified tetrahydrofuran configurations. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 3783-3786.	1.0	24
300	Thermal dose fractionation affects tumour physiological response. International Journal of Hyperthermia, 2012, 28, 431-440.	1.1	24
301	A clinical model of dermal wound angiogenesis. Wound Repair and Regeneration, 2003, 11, 306-313.	1.5	23
302	Endoscopic components separation for abdominal compartment syndrome. American Journal of Surgery, 2003, 186, 158-163.	0.9	23
303	Anti-angiogenic effects of interleukin-12 delivered by a novel hyperthermia induced gene construct. International Journal of Hyperthermia, 2006, 22, 587-606.	1.1	23
304	An In Vitro System to Evaluate the Effects of Ischemia on Survival of Cells Used for Cell Therapy. Annals of Biomedical Engineering, 2007, 35, 1414-1424.	1.3	23
305	A role for the copper transporter Ctr1 in the synergistic interaction between hyperthermia and cisplatin treatment. International Journal of Hyperthermia, 2013, 29, 528-538.	1.1	23
306	Delivery-Corrected Imaging of Fluorescently-Labeled Glucose Reveals Distinct Metabolic Phenotypes in Murine Breast Cancer. PLoS ONE, 2014, 9, e115529.	1.1	23

#	Article	IF	Citations
307	X-Ray Psoralen Activated Cancer Therapy (X-PACT). PLoS ONE, 2016, 11, e0162078.	1.1	23
308	Novel MRI and fluorescent probes responsive to the Factor XIII transglutaminase activity. Contrast Media and Molecular Imaging, 2010, 5, 213-222.	0.4	22
309	Systemic anti-tumour effects of local thermally sensitive liposome therapy. International Journal of Hyperthermia, 2014, 30, 385-392.	1.1	22
310	Exercise inhibits tumor growth and central carbon metabolism in patient-derived xenograft models of colorectal cancer. Cancer & Metabolism, 2018, 6, 14.	2.4	22
311	Targeting the molecular effects of a hypoxic tumor microenvironment. Frontiers in Bioscience - Landmark, 2007, 12, 4061.	3.0	21
312	The performance of a reduced-order adaptive controller when used in multi-antenna hyperthermia treatments with nonlinear temperature-dependent perfusion. Physics in Medicine and Biology, 2009, 54, 1979-1995.	1.6	21
313	Quantitative Mapping of Hemodynamics in the Lung, Brain, and Dorsal Window Chamberâ€Grown Tumors Using a Novel, Automated Algorithm. Microcirculation, 2013, 20, 724-735.	1.0	21
314	Metaboloptics: Visualization of the tumor functional landscape via metabolic and vascular imaging. Scientific Reports, 2018, 8, 4171.	1.6	21
315	A potential solution for eliminating hypoxia as a cause for radioresistance. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10548-10550.	3.3	21
316	A comparison of temperatures in canine solid tumours during local and whole-body hyperthermia administered alone and simultaneously. International Journal of Hyperthermia, 1990, 6, 305-317.	1.1	20
317	Accelerated repopulation: Friend or foe? Exploiting changes in tumor growth characteristics to improve the â€œefficiencyâ€•of radiotherapy. International Journal of Radiation Oncology Biology Physics, 1991, 21, 1377-1383.	0.4	20
318	Effects of Bradykinin on the Hemodynamics of Tumor and Granulating Normal Tissue Microvasculature. Radiation Research, 1992, 130, 345.	0.7	20
319	Nitroxide conjugate of a thermally responsive elastin-like polypeptide for noninvasive thermometry. Medical Physics, 2004, 31, 2755-2762.	1.6	20
320	Her2/neu signaling blockade improves tumor oxygenation in a multifactorial fashion in Her2/neu+ tumors. Cancer Chemotherapy and Pharmacology, 2009, 63, 219-228.	1.1	20
321	PET With ⁶²Cu-ATSM and ⁶²Cu-PTSM Is a Useful Imaging Tool for Hypoxia and Perfusion in Pulmonary Lesions. American Journal of Roentgenology, 2013, 201, W698-W706.	1.0	20
322	Evidence for Feedback Regulation Following Cholesterol Lowering Therapy in a Prostate Cancer Xenograft Model. Prostate, 2017, 77, 446-457.	1.2	20
323	Mechanism-Specific Pharmacodynamics of a Novel Complex-I Inhibitor Quantified by Imaging Reversal of Consumptive Hypoxia with [18F]FAZA PET In Vivo. Cells, 2019, 8, 1487.	1.8	20
324	The activity of camptothecin analogues is enhanced in histocultures of human tumors and human tumor xenografts by modulation of extracellular pH. Cancer Chemotherapy and Pharmacology, 2003, 52, 253-261.	1.1	19

#	Article	IF	Citations
325	Preferential extravasation and accumulation of liposomal vincristine in tumor comparing to normal tissue enhances antitumor activity. Cancer Chemotherapy and Pharmacology, 2006, 58, 245-255.	1.1	19
326	Automated measurement of blood flow velocity and direction and hemoglobin oxygen saturation in the rat lung using intravital microscopy. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2013, 304, L86-L91.	1.3	19
327	Effects of High-Dose Microbeam Irradiation on Tumor Microvascular Function and Angiogenesis. Radiation Research, 2015, 183, 147.	0.7	19
328	Synthesis and Biological Evaluation of Manassantin Analogues for Hypoxia-Inducible Factor 1Î± Inhibition. Journal of Medicinal Chemistry, 2015, 58, 7659-7671.	2.9	19
329	GBM radiosensitizers: dead in the waterâ€¦or just the beginning?. Journal of Neuro-Oncology, 2017, 134, 513-521.	1.4	19
330	Hyperthermia classic commentary: â€˜Arrhenius relationships from the molecule and cell to the clinicâ€™ by William Dewey,Int. J. Hyperthermia, 10:457â€“483, 1994. International Journal of Hyperthermia, 2009, 25, 21-24.	1.1	18
331	Miniature microwave applicator for murine bladder hyperthermia studies. International Journal of Hyperthermia, 2012, 28, 456-465.	1.1	18
332	Sickle Erythrocytes Target Cytotoxics to Hypoxic Tumor Microvessels and Potentiate a Tumoricidal Response. PLoS ONE, 2013, 8, e52543.	1.1	18
333	Comparison of the Hypoxia PET Tracer ¹⁸F-EF5 to Immunohistochemical Marker EF5 in 3 Different Human Tumor Xenograft Models. Journal of Nuclear Medicine, 2014, 55, 1192-1197.	2.8	18
334	Implications of Increase in Vascular Permeability in Tumors by VEGF: A Commentary on the Pioneering Work of Harold Dvorak. Cancer Research, 2016, 76, 3118-3120.	0.4	18
335	Inhibition of the Continuum of Radiation-Induced Normal Tissue Injury by a Redox-Active Mn Porphyrin. Radiation Research, 2017, 188, 94.	0.7	18
336	Enhancing Radiation Therapy Through Cherenkov Light-Activated Phototherapy. International Journal of Radiation Oncology Biology Physics, 2018, 100, 794-801.	0.4	18
337	Transitioning from Gamma Rays to X Rays for Comparable Biomedical Research Irradiations: Energy Matters. Radiation Research, 2020, 193, 506.	0.7	18
338	Regional Hyperthermia by Magnetic Induction in a Beagle Dog Model: Analysis of Thermal Dosimetry. Radiation Research, 1984, 98, 445.	0.7	17
339	Use of Radiation and/or Hyperthermia for Treatment of Mast Cell Tumors and Lymphosarcoma in Dogs. Veterinary Clinics of North America - Small Animal Practice, 1985, 15, 835-843.	0.5	17
340	Characterization of a recombinant adenovirus vector encoding heat-inducible feline interleukin-12 for use in hyperthermia-induced gene-therapy. International Journal of Hyperthermia, 2006, 22, 117-134.	1.1	17
341	Intra-peritoneal cisplatin and whole abdomen hyperthermia for relapsed ovarian carcinoma. International Journal of Hyperthermia, 2006, 22, 161-172.	1.1	17
342	Clinical utility of magnetic resonance thermal imaging (MRTI) for realtime guidance of deep hyperthermia. Proceedings of SPIE, 2009, 7181, .	0.8	17

#	Article	IF	Citations
343	CHARACTERIZATION OF A 137Cs IRRADIATOR FROM A NEW PERSPECTIVE WITH MODERN DOSIMETRIC TOOLS. Health Physics, 2009, 97, 195-205.	0.3	17
344	Neurobehavioral radiation mitigation to standard brain cancer therapy regimens by Mn(III) nâ€butoxyethylpyridylporphyrinâ€based redox modifier. Environmental and Molecular Mutagenesis, 2016, 57, 372-381.	0.9	17
345	NIR-emissive PEG-b-TCL micelles for breast tumor imaging and minimally invasive pharmacokinetic analysis. Nanoscale, 2017, 9, 13465-13476.	2.8	17
346	Psoralen Derivatives with Enhanced Potency. Photochemistry and Photobiology, 2020, 96, 1014-1031.	1.3	17
347	Effects of the Calcium Channel Blocker Flunarizine on the Hemodynamics and Oxygenation of Tumor Microvasculature. Radiation Research, 1992, 132, 61.	0.7	16
348	The relationship between the tumor physiologic microenvironment and angiogenesis. Hematology/Oncology Clinics of North America, 2004, 18, 973-990.	0.9	16
349	Understanding the Tumor Microenvironment and Radioresistance by Combining Functional Imaging With Global Gene Expression. Seminars in Radiation Oncology, 2013, 23, 296-305.	1.0	16
350	Measuring tumor cycling hypoxia and angiogenesis using a sideâ€firing fiber optic probe. Journal of Biophotonics, 2014, 7, 552-564.	1.1	16
351	Long-term Consequences of Pelvic Irradiation: Toxicities, Challenges, and Therapeutic Opportunities with Pharmacologic Mitigators. Clinical Cancer Research, 2020, 26, 3079-3090.	3.2	16
352	In regard to Vasanathan et al. (Int J Radiat Oncol Biol Phys 2005;61:145â€“153). International Journal of Radiation Oncology Biology Physics, 2005, 63, 644.	0.4	15
353	Assessing the ability of the antiangiogenic and anticytokine agent thalidomide to modulate radiation-induced lung injury. International Journal of Radiation Oncology Biology Physics, 2006, 66, 477-482.	0.4	15
354	Application of mixed spin iMQCs for temperature and chemical-selective imaging. Journal of Magnetic Resonance, 2010, 204, 208-218.	1.2	15
355	Phosphorylated epidermal growth factor receptor and cyclooxygenase-2 expression in localized non-small cell lung cancer. Medical Oncology, 2010, 27, 91-97.	1.2	15
356	Toward an organ based dose prescription method for the improved accuracy of murine dose in orthovoltage xâ€ray irradiators. Medical Physics, 2014, 41, 034101.	1.6	15
357	Targeting N-cadherin Increases Vascular Permeability and Differentially Activates AKT in Melanoma. Annals of Surgery, 2015, 261, 368-377.	2.1	15
358	Differential response to exercise in claudin-low breast cancer. Oncotarget, 2017, 8, 100989-101004.	0.8	15
359	Hyperthermia-Induced Enhancement of Melphalan Activity against a Melphalan-Resistant Human Rhabdomyosarcoma Xenograft. Radiation Research, 1992, 129, 218.	0.7	14
360	A Comparison of Antiangiogenic Therapies for the Prevention of Liver Metastases. Journal of Surgical Research, 2006, 131, 97-104.	0.8	14

#	Article	IF	Citations
361	Effective learning strategies for realâ€time imageâ€guided adaptive control of multipleâ€source hyperthermia applicators. Medical Physics, 2010, 37, 1285-1297.	1.6	14
362	A multiâ€institution experience comparing the clinical and physiologic differences between upper extremity and lower extremity melphalanâ€based isolated limb infusion. Cancer, 2012, 118, 6136-6143.	2.0	14
363	Endothelial Colony Forming Cells (ECFCs) As a Model for Studying Effects of Low-Dose Ionizing Radiation: Growth Inhibition by a Single Dose. Cancer Investigation, 2013, 31, 359-364.	0.6	14
364	Mechanisms Underlying Hypoxia Development in Tumors. Advances in Experimental Medicine and Biology, 2003, 510, 51-56.	0.8	14
365	Stroma-Free Human Hemoglobin A Decreases R3230Ac Rat Mammary Adenocarcinoma Blood Flow and Oxygen Partial Pressure. Radiation Research, 1997, 147, 185.	0.7	13
366	Improved magnetic resonance thermal imaging by combining proton resonance frequency shift (PRFS) and apparent diffusion coefficient (ADC) data. International Journal of Hyperthermia, 2005, 21, 657-667.	1.1	13
367	Induction of theHuman Heat Shock Promoter HSP70Bby Nutritional Stress: Implications for Cancer Gene Therapy. Cancer Investigation, 2008, 26, 553-561.	0.6	13
368	High-Resolution In Vivo Imaging of Fluorescent Proteins Using Window Chamber Models. Methods in Molecular Biology, 2012, 872, 31-50.	0.4	13
369	Accurate Three-Dimensional Thermal Dosimetry and Assessment of Physiologic Response Are Essential for Optimizing Thermoradiotherapy. Cancers, 2022, 14, 1701.	1.7	13
370	A REVIEW OF TREATMENT PLANNING AND DOSE CALCULATION IN VETERINARY RADIATION ONCOLOGY. Veterinary Radiology, 1989, 30, 194-221.	0.2	12
371	Toward a Consensus on Radiobiology Teaching to Radiation Oncology Residents. Radiation Research, 2002, 157, 599-606.	0.7	12
372	Toward a national consensus: teaching radiobiology to radiation oncology residents. International Journal of Radiation Oncology Biology Physics, 2002, 54, 861-872.	0.4	12
373	Thermal medicine, heat shock proteins and cancer. International Journal of Hyperthermia, 2005, 21, 675-677.	1.1	12
374	The Effect of Darbepoetin Alfa on Growth, Oxygenation and Radioresponsiveness of a Breast Adenocarcinoma. Radiation Research, 2006, 165, 192-201.	0.7	12
375	SplicerAV: a tool for mining microarray expression data for changes in RNA processing. BMC Bioinformatics, 2010, 11, 108.	1.2	12
376	A simplified synthesis of the hypoxia imaging agent 2-(2-Nitro-1H-imidazol-1-yl)-N-(2,2,3,3,3-[18F]pentafluoropropyl)-acetamide ([18F]EF5). Nuclear Medicine and Biology, 2012, 39, 1012-1018.	0.3	12
377	Therapeutic Properties of Aerobic Training After a Cancer Diagnosis: More Than a One-Trick Pony?. Journal of the National Cancer Institute, 2014, 106, dju042-dju042.	3.0	12
378	Genomic profiling in locally advanced and inflammatory breast cancer and its link to DCE-MRI and overall survival. International Journal of Hyperthermia, 2015, 31, 386-395.	1.1	12

#	Article	IF	Citations
379	Microdosimetric and Biological Effects of Photon Irradiation at Different Energies in Bone Marrow. Radiation Research, 2015, 184, 378-391.	0.7	12
380	Endothelial cell-surface tissue transglutaminase inhibits neutrophil adhesion by binding and releasing nitric oxide. Scientific Reports, 2017, 7, 16163.	1.6	12
381	Near-simultaneous quantification of glucose uptake, mitochondrial membrane potential, and vascular parameters in murine flank tumors using quantitative diffuse reflectance and fluorescence spectroscopy. Biomedical Optics Express, 2018, 9, 3399.	1.5	12
382	Angiogenesis and Oxygen Transport in Solid Tumors. , 1999, , 3-21.		12
383	The effects of clinically relevant hyperthermic temperatures on the kinetic binding parameters of a monoclonal antibody. Nuclear Medicine and Biology, 1996, 23, 551-557.	0.3	11
384	Effects of fluctuating oxygenation on tirapazamine efficacy: Theoretical predictions. International Journal of Radiation Oncology Biology Physics, 2007, 67, 581-586.	0.4	11
385	A comprehensive method for optical-emission computed tomography. Physics in Medicine and Biology, 2010, 55, 3947-3957.	1.6	11
386	A method to convert MRI images of temperature change into images of absolute temperature in solid tumours. International Journal of Hyperthermia, 2013, 29, 569-581.	1.1	11
387	Polymer-assisted intratumoral delivery of ethanol: Preclinical investigation of safety and efficacy in a murine breast cancer model. PLoS ONE, 2021, 16, e0234535.	1.1	11
388	Therapeutic effect of infused fluosol-da/carbogen with ephedrine, flunarizine, or nitroprusside. International Journal of Radiation Oncology Biology Physics, 1993, 26, 103-109.	0.4	10
389	Reduction in tumor blood flow in skin flap tumor after hydralazine is not due to a vascular steal phenomenon. Radiation Oncology Investigations, 1993, 1, 270-278.	1.3	10
390	Development of a model of melphalan-induced gastrointestinal toxicity in mice. Cancer Chemotherapy and Pharmacology, 1993, 31, 376-380.	1.1	10
391	Utility of functional imaging in prediction or assessment of treatment response and prognosis following thermotherapy. International Journal of Hyperthermia, 2010, 26, 283-293.	1.1	10
392	Oxygen Distributions within R3230AC Tumors Growing in Dorsal Flap Window Chambers in Rats. Advances in Experimental Medicine and Biology, 1998, 454, 603-609.	0.8	10
393	Feasibility of estimating the temperature distribution in a tumor heated by a waveguide applicator. International Journal of Radiation Oncology Biology Physics, 1992, 23, 1009-1019.	0.4	9
394	Magnetic resonance imaging: A potential tool in assessing the addition of hyperthermia to neoadjuvant therapy in patients with locally advanced breast cancer. International Journal of Hyperthermia, 2010, 26, 625-637.	1.1	9
395	The additive damage model: A mathematical model for cellular responses to drug combinations. Journal of Theoretical Biology, 2014, 357, 10-20.	0.8	9
396	Noninvasive measurement of tissue blood oxygenation with Cerenkov imaging during therapeutic radiation delivery. Optics Letters, 2017, 42, 3101.	1.7	9

#	Article	IF	Citations
397	A new photogrammetric system for high-precision monitoring of tunnel deformations. Proceedings of the Institution of Civil Engineers: Transport, 2019, 172, 81-93.	0.3	9
398	Radiofrequency Ablation Duration per Tumor Volume May Correlate with Overall Survival in Solitary Hepatocellular Carcinoma Patients Treated with Radiofrequency Ablation Plus Lyso-Thermosensitive Liposomal Doxorubicin. Journal of Vascular and Interventional Radiology, 2019, 30, 1908-1914.	0.2	9
399	Clarifying the Relative Impacts of Vascular and Nerve Injury That Culminate in Erectile Dysfunction in a Pilot Study Using a Rat Model of Prostate Irradiation and a Thrombopoietin Mimetic. International Journal of Radiation Oncology Biology Physics, 2019, 103, 1212-1220.	0.4	9
400	Comparative Approach to the Temporo-Spatial Organization of the Tumor Microenvironment. Frontiers in Oncology, 2019, 9, 1185.	1.3	9
401	Late onset cardiovascular dysfunction in adult mice resulting from galactic cosmic ray exposure. IScience, 2022, 25, 104086.	1.9	9
402	Whole body hyperthermia in dogs using a radiant heating device: Effect of surface cooling on temperature uniformity. International Journal of Hyperthermia, 1989, 5, 137-143.	1.1	8
403	Increased skin carcinogenesis in caspase-activated DNase knockout mice. Carcinogenesis, 2009, 30, 1776-1780.	1.3	8
404	Application of Optical Imaging and Spectroscopy to Radiation Biology. Radiation Research, 2012, 177, 365-375.	0.7	8
405	Hypoxia in Melanoma: Using Optical Spectroscopy and EF5 to Assess Tumor Oxygenation Before and During Regional Chemotherapy for Melanoma. Annals of Surgical Oncology, 2014, 21, 1435-1440.	0.7	8
406	Technological Advances, Biologic Rationales, and the Associated Success of Chemotherapy With Hyperthermia in Improved Outcomes in Patients With Sarcoma. JAMA Oncology, 2018, 4, 493.	3.4	8
407	Development and Preliminary Evaluation of a Murine Model of Chronic Radiation-Induced Proctitis. International Journal of Radiation Oncology Biology Physics, 2018, 101, 1194-1201.	0.4	8
408	Simultaneous in vivo optical quantification of key metabolic and vascular endpoints reveals tumor metabolic diversity in murine breast tumor models. Journal of Biophotonics, 2019, 12, e201800372.	1.1	8
409	Anti-Hypotensive Treatment and Endothelin Blockade Synergistically Antagonize Exercise Fatigue in Rats under Simulated High Altitude. PLoS ONE, 2014, 9, e99309.	1.1	8
410	Effects of the Interaction between Carbogen and Nicotinamide on R3230 Ac Tumor Blood Flow in Fischer 344 Rats. Radiation Research, 2001, 155, 724-733.	0.7	7
411	Mechanistic Considerations of the Therapeutic Effects of Mn Porphyrins, Commonly Regarded as SOD Mimics, in Anticancer Therapy: Lessons from Brain and Lymphoma Studies. Free Radical Biology and Medicine, 2013, 65, S120-S121.	1.3	7
412	Hyperthermia. , 2016, , 381-398.e6.		7
413	Distinct Angiogenic Changes during Carcinogenesis Defined by Novel Label-Free Dark-Field Imaging in a Hamster Cheek Pouch Model. Cancer Research, 2017, 77, 7109-7119.	0.4	7
414	Comparison of Fluctuations of Oxygen Tension in FSA, 9L, and R3230AC Tumors in Rats. Advances in Experimental Medicine and Biology, 2003, 510, 7-12.	0.8	7

#	Article	IF	Citations
415	Hyperthermia. , 2012, , 385-403.		7
416	Stability of temperatures during hyperthermia treatments. International Journal of Hyperthermia, 1989, 5, 59-67.	1.1	6
417	Hyperthermia and nanotechnologyâ€“A note from the Editor-in-chief. International Journal of Hyperthermia, 2008, 24, 449-450.	1.1	6
418	Glutathione Depletion or Radiation Treatment Alters Respiration and Induces Apoptosis in R3230Ac Mammary Carcinoma. Advances in Experimental Medicine and Biology, 2003, 530, 153-164.	0.8	6
419	Effect of Mild Hyperglycemia Â± Meta-Iodo-Benzylguanidine on the Radiation Response of R3230 Ac Tumors. Advances in Experimental Medicine and Biology, 2003, 530, 177-186.	0.8	6
420	One-stop-shop tumor imaging: buy hypoxia, get lactate free. Journal of Clinical Investigation, 2008, 118, 1616-9.	3.9	6
421	Dual-emissive, oxygen-sensing boron nanoparticles quantify oxygen consumption rate in breast cancer cells. Journal of Biomedical Optics, 2020, 25, .	1.4	6
422	Response: Re: Initial Stages of Tumor Cell-Induced Angiogenesis: Evaluation Via Skin Window Chambers in Rodent Models. Journal of the National Cancer Institute, 2000, 92, 1445-1446.	3.0	5
423	Monitoring Metabolite Gradients in the Blood, Liver, and Tumor after Induced Hyperglycemia in Rats with R3230 Flank Tumors Using Microdialysis and Bioluminescence Imaging. , 2005, 566, 343-348.		5
424	Analytic Solution to Steady-State Radial Diffusion of a Substrate with First-Order Reaction Kinetics in the Tissue of a Krogh's Cylinder. Radiation Research, 2008, 169, 350-354.	0.7	5
425	Mathematical formulation and analysis of the nonlinear system reconstruction of the online imageâ€guided adaptive control of hyperthermia. Medical Physics, 2010, 37, 980-994.	1.6	5
426	A feasibility study using radiochromic films for fast neutron 2D passive dosimetry. Physics in Medicine and Biology, 2010, 55, 4977-4992.	1.6	5
427	Heat induces gene amplification in cancer cells. Biochemical and Biophysical Research Communications, 2012, 427, 473-477.	1.0	5
428	Materials Science and Engineering of the Low Temperature Sensitive Liposome (LTSL): Composition-Structure-Property Relationships That Underlie its Design and Performance. RSC Smart Materials, 2013, , 33-79.	0.1	5
429	Application of a Novel Murine Ear Vein Model to Evaluate the Effects of a Vascular Radioprotectant on Radiation-Induced Vascular Permeability and Leukocyte Adhesion. Radiation Research, 2018, 190, 12.	0.7	5
430	Cast-iron tunnelsâ€™ tolerance to imposed longitudinal settlement curvature. Geotechnique, 2020, , 1-12.	2.2	5
431	Epinephrine-Induced Sickle Red Cell Adhesion and Vaso-Occlusion In Vivo Is Inhibited by the Î²-Adrenoceptor Blocker Propranolol.. Blood, 2004, 104, 364-364.	0.6	5
432	Immunologic Effects of Stereotactic Body Radiotherapy in Dogs with Spontaneous Tumors and the Impact of Intratumoral OX40/TLR Agonist Immunotherapy. International Journal of Molecular Sciences, 2022, 23, 826.	1.8	5

#	Article	IF	Citations
433	Progress toward a thermal dosimetry system. International Journal of Radiation Oncology Biology Physics, 1995, 33, 963-964.	0.4	4
434	A Bayesian Model for Detecting Acute Change in Nonlinear Profiles. Journal of the American Statistical Association, 2001, 96, 1215-1222.	1.8	4
435	Method for improved accuracy in endogenous urea recovery marker calibrations for microdialysis in tumors. Journal of Pharmacological and Toxicological Methods, 2005, 52, 341-349.	0.3	4
436	A Clinically Proven, Prospective, Thermal Dose Descriptor Exists. Clinical Cancer Research, 2006, 12, 1944-1945.	3.2	4
437	Analysis of the Heterogeneity of pO2 Dynamics During Photodynamic Therapy with VerteporfinÂ¶. Photochemistry and Photobiology, 2007, 74, 700-706.	1.3	4
438	Mn Porphyrin-Based SOD Mimic and Vitamin C Enhance Radiation-Induced Tumor Growth Inhibition. Free Radical Biology and Medicine, 2015, 87, S97.	1.3	4
439	Subtype-Specific Radiation Response and Therapeutic Effect of FAS Death Receptor Modulation in Human Breast Cancer. Radiation Research, 2017, 188, 169.	0.7	4
440	The integration of hyperthermia and drug delivery. Advanced Drug Delivery Reviews, 2020, 163-164, 1-2.	6.6	4
441	The effect of the perflubron emulsion Oxygentâ„¢ on the calibration characteristics of polarographic oxygen electrodes. Radiotherapy and Oncology, 1994, 33, 262-265.	0.3	3
442	Factors Controlling Oxygen Utilization. , 2005, 566, 317-323.		3
443	In VivoMonitoring of a Fluorescently Labeled Antibody in Mice With Breast Cancer Xenografts. IEEE Sensors Journal, 2008, 8, 81-88.	2.4	3
444	Control time reduction using virtual source projection for treating a leg sarcoma with nonlinear perfusion. Proceedings of SPIE, 2009, 7181, .	0.8	3
445	Preclinical dosimetry of magnetic fluid hyperthermia for bladder cancer. Proceedings of SPIE, 2013, 8584, 1656985.	0.8	3
446	Editorial: Emerging Translational Opportunities in Comparative Oncology with Companion Canine Cancers. Frontiers in Oncology, 2020, 10, 270.	1.3	3
447	A New Assay to Measure Intestinal Crypt Survival after Irradiation: Challenges and Opportunities. Cancer Research, 2020, 80, 927-928.	0.4	3
448	Abstract 3774: Hyperthermia treatment overcomes temozolomide resistance in glioma cells by downregulating MGMT expression and increasing temozolomide uptake. Cancer Research, 2014, 74, 3774-3774.	0.4	3
449	Assessing effects of pressure on tumor and normal tissue physiology using an automated self-calibrated, pressure-sensing probe for diffuse reflectance spectroscopy. Journal of Biomedical Optics, 2018, 23, 1.	1.4	3
450	Radiosurgery in Rat Brain. Radiosurgery, 1996, 1, 308-315.	0.1	2

#	Article	IF	Citations
451	Hyperthermia and the Immune System. International Journal of Hyperthermia, 2002, 18, 485-485.	1.1	2
452	A Summary Report on the Reorganization of Cancer and Radiobiology Teaching for Radiation Oncology Residents. Radiation Research, 2003, 159, 698-701.	0.7	2
453	Measurement of hemoglobin saturation in tumor microvasculature in preclinical models using hyperspectral imaging. , 2005, , .		2
454	A 400 MHz Hyperthermia System using Rotating Spiral Antennas for Uniform Treatment of Large Superficial and Sub-Surface Tumors. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	2
455	Low-Intensity Alternating Electric Fields: A Potentially Safe and Effective Treatment of Cancer?. Onkologie, 2008, 31, 357-358.	1.1	2
456	Introduction to the Special Issue on Molecular Imaging in Radiation Biology. Radiation Research, 2012, 177, 329-330.	0.7	2
457	MP65-08 HEAT-TARGETED DRUG DELIVERY USING THE COMBAT BRS DEVICE FOR TREATING BLADDER CANCER. Journal of Urology, 2017, 197, .	0.2	2
458	Potential for a novel manganese porphyrin compound as adjuvant canine lymphoma therapy. Cancer Chemotherapy and Pharmacology, 2017, 80, 421-431.	1.1	2
459	Concurrent tracking of anatomy and metabolism. Nature Biomedical Engineering, 2018, 2, 54-55.	11.6	2
460	Cherenkov emissions for studying tumor changes during radiation therapy: An exploratory study in domesticated dogs with naturally-occurring cancer. PLoS ONE, 2020, 15, e0238106.	1.1	2
461	The Effect of Nicotinamide & Hyperoxic Gases on Blood Glucose. Advances in Experimental Medicine and Biology, 2003, 510, 375-378.	0.8	2
462	A Pial Window Model for the Intracranial Study of Human Glioma Microvascular Function. Neurosurgery, 1995, 36, 976???985.	0.6	2
463	Prognostic significance of differential expression of angiogenic genes in women with invasive high-grade serous ovarian carcinoma.. Journal of Clinical Oncology, 2013, 31, 5509-5509.	0.8	2
464	Longitudinal Monitoring of 4T1-Tumor Physiology in vivo with Doxorubicin Treatment via Diffuse Optical Spectroscopy. , 2008, , .		2
465	Dynamic treatment effect (DTE) curves reveal the mode of action for standard and experimental cancer therapies. Oncotarget, 2015, 6, 14656-14668.	0.8	2
466	Automated Measurement of Microcirculatory Blood Flow Velocity in Pulmonary Metastases of Rats. Journal of Visualized Experiments, 2014, , e51630.	0.2	2
467	Manganese Porphyrin and Radiotherapy Improves Local Tumor Response and Overall Survival in Orthotopic Murine Mammary Carcinoma Models. Radiation Research, 2020, 195, 128-139.	0.7	2
468	[18F]Fluoro-DCP, a first generation PET radiotracer for monitoring protein sulfenylation in vivo. Redox Biology, 2022, 49, 102218.	3.9	2

#	Article	IF	Citations
469	Factors influencing hyperthermic enhancement of drug cytotoxicity. International Journal of Radiation Oncology Biology Physics, 1993, 25, 569-570.	0.4	1
470	Further Justification for Development of Non-Invasive Thermometry. International Journal of Hyperthermia, 1998, 14, 255-255.	1.1	1
471	In regard to Arvold et al. (Int J Radiat Oncol Biol Phys 2005;62:207â€“212). International Journal of Radiation Oncology Biology Physics, 2005, 63, 970-971.	0.4	1
472	A note from the Editor-in-Chief. International Journal of Hyperthermia, 2007, 23, 1-2.	1.1	1
473	Combined hyperspectral and spectral domain optical coherence tomography microscope for non-invasive hemodynamic imaging. , 2009, , .		1
474	Corneal Angiogenesis Assay. , 0, , 203-228.		1
475	Hyperspectral Imaging of Glucose Uptake, Mitochondrial Membrane Potential, and Vascular Oxygenation Differentiates Breast Cancers with Distinct Metastatic Potential In Vivo. , 2016, , .		1
476	Role of LW and AKAP79 in Î²-Adrenergic Receptor Signaling-Induced Sickle Red Blood Cell Adhesion.. Blood, 2005, 106, 3181-3181.	0.6	1
477	Longitudinal Optical Imaging of Tumor Metabolism and Hemodynamics. , 2010, , .		1
478	Theoretical simulation of angiogenesis and structural adaptation in microvascular networks. FASEB Journal, 2012, 26, 682.1.	0.2	1
479	The Cycle Between Angiogenesis, Perfusion, and Hypoxia in Tumors. , 2006, , 3-19.		1
480	Quantifying the effects of anesthesia on intracellular oxygen via low-cost portable microscopy using dual-emissive nanoparticles. Biomedical Optics Express, 0, , .	1.5	1
481	Dedication of the special issue of the International Journal of Hyperthermia honouring the retirement of George M. Hahn PhD. International Journal of Hyperthermia, 1994, 10, 307-308.	1.1	0
482	Re: Kapp editorial IJROBP 35:189â€“194; 1996. International Journal of Radiation Oncology Biology Physics, 1996, 36, 989.	0.4	0
483	Response to the Letter of Drs. Hartmann et al.. Radiation Research, 1997, 148, 524.	0.7	0
484	152 Identification of longitudinal tissue pO2 gradients as one cause for vascular hypoxia in window chamber tumors. International Journal of Radiation Oncology Biology Physics, 1997, 39, 211.	0.4	0
485	Introduction. Seminars in Radiation Oncology, 1998, 8, 141-142.	1.0	0
486	Oxygen microelectrode measurements in R3230Ac Tumors during photodynamic therapy with verteporfin. , 2001, , .		0

#	Article	IF	Citations
487	Comparative inhibition of angiostatin and endostatin in the treatment of hepatic micrometastases. Gastroenterology, 2003, 124, A806.	0.6	0
488	Optical imaging measurements of oxygen transport fluctuations and gradients in tumor microvascular networks. , 2006, , .		0
489	IN MEMORIAM. Radiation Research, 2007, 167, 745-747.	0.7	0
490	First International Association of Hyperthermic Oncology Tsudomu Sugahara Award. International Journal of Hyperthermia, 2008, 24, 442-443.	1.1	0
491	TheInternational Journal of Hyperthermiaâ€“ The first 25 years. International Journal of Hyperthermia, 2009, 25, 1-2.	1.1	0
492	89 EFFECT OF VOLUNTARY WHEEL RUNNING ON GROWTH OF PROSTATE CANCER IN IMMUNOCOMPROMISED AND IMMUNOCOMPETENT MOUSE MODELS. Journal of Urology, 2010, 183, .	0.2	0
493	225 THE EFFECTS OF CHOLESTEROL TREATMENT DRUGS ALONE AND IN COMBINATION ON PROSTATE TUMOR XENOGRAFT GROWTH. Journal of Urology, 2012, 187, .	0.2	0
494	Introduction: Tumor as an Organ. Seminars in Radiation Oncology, 2013, 23, 235-236.	1.0	0
495	Monitoring of cycling hypoxia and angiogenesis in FaDu head and neck tumors using a side-firing sensor. , 2013, , .		0
496	Verification of a novel method for tube voltage constancy measurement of orthovoltage xâ€ray irradiators. Medical Physics, 2014, 41, 084101.	1.6	0
497	Optical monitoring of glucose demand and vascular delivery in a preclinical murine model. Proceedings of SPIE, 2014, , .	0.8	0
498	A Tribute to Philip Marcus and the Development of the Clonogenic Assay. Radiation Research, 2015, 183, 497-500.	0.7	0
499	From the Guest Editor. Cancer Journal (Sudbury, Mass), 2015, 21, 47-48.	1.0	0
500	Reply: Pharmacokinetic and Pharmacodynamic Modifiers of EF5 Uptake and Binding. Journal of Nuclear Medicine, 2015, 56, 653.2-654.	2.8	0
501	In Reply to Pratx and Kapp. International Journal of Radiation Oncology Biology Physics, 2018, 101, 495-496.	0.4	0
502	Transition to open access. International Journal of Hyperthermia, 2018, 34, 1134-1134.	1.1	0
503	Editorsâ€™ awardees for 2020. International Journal of Hyperthermia, 2020, 37, 868-869.	1.1	0
504	Editorsâ€™ awardees for 2021. International Journal of Hyperthermia, 2021, 38, 795-797.	1.1	0

#	Article	IF	Citations
505	Imaging Hypoxia. , 2021, , 869-895.		0
506	Characterizing tumor changes during neoadjuvant treatment of locally advanced breast cancer patients (LABC) using dynamic-enhanced magnetic resonance imaging (DE-MRI). , 2005, , .		0
507	Role of Erythropoietin as an Angiogenic Factor and Target in Cancer.. Blood, 2006, 108, 416-416.	0.6	0
508	Changed microvascular adaptation characteristics may explain heterogeneity and hypoxia of tumor perfusion. FASEB Journal, 2008, 22, 925.6.	0.2	0
509	Combined Hyperspectral and Optical Coherence Tomography Microscope for Non-invasive Hemodynamic Imaging. , 2009, , .		0
510	Abstract A7: Targeting the tumor microenvironmentviainhibition of VEGF and PDGF to improve liposomal drug delivery in human nonâ€small cell lung cancer xenografts. , 2009, , .		0
511	Abstract A10: Antiangiogenic therapy (VEGFâ€R1â€“3 and PDGFR inhibitor) increases tumor hemoglobin saturation and decreases interstitial pressure, and microvessel density. , 2009, , .		0
512	Hyperthermia. , 2011, , 1785-1791.		0
513	Abstract 5306:18F-EF5 microPET imaging of treatment response from a novel, hypoxia-selective cytotoxin SN30000 in a human lung cancer xenograft model. , 2011, , .		0
514	Abstract 5377: A role for Ctr1 in the synergistic interaction between mild hyperthermia and cisplatin treatment. , 2011, , .		0
515	Abstract 2337: Defining significance of the novel tGLI1 transcription factor in cancer growth and progression. , 2011, , .		0
516	An algorim for quantification of hemodynamic properties in murine dorsal window chamber video images. FASEB Journal, 2011, 25, lb350.	0.2	0
517	Phase I clinical trial of external hyperthermia and intravesical mitomycin C to treat BCG-refractory bladder cancer.. Journal of Clinical Oncology, 2013, 31, e15560-e15560.	0.8	0
518	Abstract B151: Monitoring tumor microenvironment (Hb saturation and oxygenation) in response to plasmonics-assisted photothermal cancer therapy.. , 2013, , .		0
519	Imaging the Hypoxic Tumor Microenvironment in Preclinical Models. Cancer Drug Discovery and Development, 2014, , 157-178.	0.2	0
520	Tissue Oxygen Pressure and Oxygen Sensing by the Carotid Body. , 1998, , 377-387.		0
521	Hyperthermia. , 2015, , 1-7.		0
522	Abstract 3302: Subtype-specific radiation response in a mouse model of human breast cancer. , 2015, , .		0

#	Article	IF	Citations
523	Abstract 1656: Subtype-specific radiation response in human breast cancer and potential therapeutic effect of FAS death receptor modulation. , 2016, , .		0
524	Abstract 1647: Radiation response genome-wide analysis using paired pre and post-radiation FFPE human breast tumor samples. , 2016, , .		0
525	Abstract SY22-02: Exercise and cancer progression: Preclinical evidence. , 2016, , .		0
526	Hyperthermia. , 2017, , 2179-2186.		0
527	Three-Dimensional Microvascular Networks Fractal Structure: Potential for Tissue Characterization?. , 1999, , .		0
528	Characterization and initial demonstration of inÂvivo efficacy of a novel heat-activated metalloenediyne anti-cancer agent. International Journal of Hyperthermia, 2022, 39, 405-413.	1.1	0