# Mark W Dewhirst

List of Publications by Year
in descending order



| | | 2427 | 3182 |
|---|---|---|---|
| 528 | 42,044 | 97 | 186 |
| papers | citations | h-index | g-index |

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|---|---|---|---|
| 539 | 539 | 539 | 42390 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Glioma stem cells promote radioresistance by preferential activation of the DNA damage response. Nature, 2006, 444, 756-760. | 27.8 | 5,600 |
| 2 | Targeting lactate-fueled respiration selectively kills hypoxic tumor cells in mice. Journal of Clinical Investigation, 2008, 118, 3930-42. | 8.2 | 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. | 0.8 | 990 |
| 4 | Radiation activates HIF-1 to regulate vascular radiosensitivity in tumors. Cancer Cell, 2004, 5, 429-441. | 16.8 | 963 |
| 5 | A dual-emissive-materials design concept enables tumour hypoxia imaging. Nature Materials, 2009, 8, 747-751. | 27.5 | 941 |
| 6 | Cycling hypoxia and free radicals regulate angiogenesis and radiotherapy response. Nature Reviews Cancer, 2008, 8, 425-437. | 28.4 | 907 |
| 7 | Tumor Vascular Permeability, Accumulation, and Penetration of Macromolecular Drug Carriers. Journal of the National Cancer Institute, 2006, 98, 335-344. | 6.3 | 816 |
| 8 | Thresholds for thermal damage to normal tissues: An update. International Journal of Hyperthermia, 2011, 27, 320-343. | 2.5 | 541 |
| 9 | Oxygenation of head and neck cancer: changes during radiotherapy and impact on treatment outcome. Radiotherapy and Oncology, 1999, 53, 113-117. | 0.6 | 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. | 13.7 | 506 |
| 11 | Transport of drugs from blood vessels to tumour tissue. Nature Reviews Cancer, 2017, 17, 738-750. | 28.4 | 499 |
| 12 | Randomized Trial of Hyperthermia and Radiation for Superficial Tumors. Journal of Clinical Oncology, 2005, 23, 3079-3085. | 1.6 | 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. | 0.8 | 469 |
| 14 | Targeting the Lactate Transporter MCT1 in Endothelial Cells Inhibits Lactate-Induced HIF-1 Activation and Tumor Angiogenesis. PLoS ONE, 2012, 7, e33418. | 2.5 | 412 |
| 15 | Regulation of HIF-1Î± Stability through S-Nitrosylation. Molecular Cell, 2007, 26, 63-74. | 9.7 | 399 |
| 16 | Overcoming Limitations in Nanoparticle Drug Delivery: Triggered, Intravascular Release to Improve Drug Penetration into Tumors. Cancer Research, 2012, 72, 5566-5575. | 0.9 | 398 |
| 17 | Pleiotropic effects of HIF-1 blockade on tumor radiosensitivity. Cancer Cell, 2005, 8, 99-110. | 16.8 | 381 |
| 18 | Hypoxia and radiotherapy: opportunities for improved outcomes in cancer treatment. Cancer and Metastasis Reviews, 2007, 26, 241-248. | 5.9 | 364 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Tie2 Expression and Phosphorylation in Angiogenic and Quiescent Adult Tissues. Circulation Research, 1997, 81, 567-574. | 4.5 | 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. | 6.3 | 317 |
| 21 | Re-setting the biologic rationale for thermal therapy. International Journal of Hyperthermia, 2005, 21, 779-790. | 2.5 | 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. | 0.8 | 262 |
| 23 | Accuracy of MRI in the Detection of Residual Breast Cancer After Neoadjuvant Chemotherapy. American Journal of Roentgenology, 2003, 181, 1275-1282. | 2.2 | 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. | 1.6 | 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. | 6.3 | 254 |
| 26 | Hyperspectral imaging of hemoglobin saturation in tumor microvasculature and tumor hypoxia development. Journal of Biomedical Optics, 2005, 10, 044004. | 2.6 | 253 |
| 27 | Hyperthermia mediated liposomal drug delivery. International Journal of Hyperthermia, 2006, 22, 205-213. | 2.5 | 248 |
| 28 | Tumor metabolism of lactate: the influence and therapeutic potential for MCT and CD147 regulation. Future Oncology, 2010, 6, 127-148. | 2.4 | 246 |
| 29 | Thermosensitive liposomes: Extravasation and release of contents in tumor microvascular networks. International Journal of Radiation Oncology Biology Physics, 1996, 36, 1177-1187. | 0.8 | 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. | 3.2 | 242 |
| 31 | Analysis of the Effects of Oxygen Supply and Demand on Hypoxic Fraction in Tumors. Acta OncolÃ³gica, 1995, 34, 313-316. | 1.8 | 238 |
| 32 | The shunt problem: control of functional shunting in normal and tumour vasculature. Nature Reviews Cancer, 2010, 10, 587-593. | 28.4 | 237 |
| 33 | Tissue transglutaminase is expressed, active, and directly involved in rat dermal wound healing and angiogenesis. FASEB Journal, 1999, 13, 1787-1795. | 0.5 | 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. | 12.0 | 224 |
| 36 | CEM43Â°C thermal dose thresholds: a potential guide for magnetic resonance radiofrequency exposure levels?. European Radiology, 2013, 23, 2215-2227. | 4.5 | 222 |

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| 37 | Ascaris haemoglobin is a nitric oxide-activated â€˜deoxygenaseâ€™. Nature, 1999, 401, 497-502. | 27.8 | 215 |
| 38 | Relationships between Cycling Hypoxia, HIF-1, Angiogenesis and Oxidative Stress. Radiation Research, 2009, 172, 653-665. | 1.5 | 208 |
| 39 | Erythropoietin Biology in Cancer. Clinical Cancer Research, 2006, 12, 332-339. | 7.0 | 201 |
| 40 | Green's Function Methods for Analysis of Oxygen Delivery to Tissue by Microvascular Networks. Annals of Biomedical Engineering, 2004, 32, 1519-1529. | 2.5 | 195 |
| 41 | The Genomic Analysis of Lactic Acidosis and Acidosis Response in Human Cancers. PLoS Genetics, 2008, 4, e1000293. | 3.5 | 188 |
| 42 | Modulation of Murine Breast Tumor Vascularity, Hypoxia, and Chemotherapeutic Response by Exercise. Journal of the National Cancer Institute, 2015, 107, . | 6.3 | 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. | 8.2 | 187 |
| 44 | Radiation-induced hypoxia may perpetuate late normal tissue injury. International Journal of Radiation Oncology Biology Physics, 2001, 50, 851-855. | 0.8 | 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. | 2.9 | 180 |
| 46 | Temperature Matters! And Why It Should Matter to Tumor Immunologists. Cancer Immunology Research, 2013, 1, 210-216. | 3.4 | 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. | 3.0 | 176 |
| 48 | The Pervasive Presence of Fluctuating Oxygenation in Tumors. Cancer Research, 2008, 68, 5812-5819. | 0.9 | 163 |
| 49 | Synergy between tumor immunotherapy and antiangiogenic therapy. Blood, 2003, 102, 964-971. | 1.4 | 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. | 2.0 | 159 |
| 51 | Structural Adaptation and Heterogeneity of Normal and Tumor Microvascular Networks. PLoS Computational Biology, 2009, 5, e1000394. | 3.2 | 156 |
| 52 | Effects and potential mechanisms of exercise training on cancer progression: A translational perspective. Brain, Behavior, and Immunity, 2013, 30, S75-S87. | 4.1 | 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. | 7.1 | 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. | 7.1 | 150 |

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| 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. | 2.5 | 150 |
| 56 | Functional Significance of Tie2 Signaling in the Adult Vasculature. Endocrine Reviews, 2004, 59, 51-71. | 6.7 | 150 |
| 57 | Catabolism of Exogenous Lactate Reveals It as a Legitimate Metabolic Substrate in Breast Cancer. PLoS ONE, 2013, 8, e75154. | 2.5 | 149 |
| 58 | Concepts of oxygen transport at the microcirculatory level. Seminars in Radiation Oncology, 1998, 8, 143-150. | 2.2 | 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. | 0.9 | 145 |
| 60 | Observations on the Use of Ferromagnetic Implants for Inducing Hyperthermia. IEEE Transactions on Biomedical Engineering, 1984, BME-31, 76-90. | 4.2 | 142 |
| 61 | Thermal Cycling Enhances the Accumulation of a Temperature-Sensitive Biopolymer in Solid Tumors. Cancer Research, 2007, 67, 4418-4424. | 0.9 | 142 |
| 62 | Tumor Necrosis Factor-Î± Is a Potent Endogenous Mutagen that Promotes Cellular Transformation. Cancer Research, 2006, 66, 11565-11570. | 0.9 | 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. | 1.6 | 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. | 6.3 | 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. | 0.8 | 138 |
| 66 | Phase I Trial of Doxorubicin-Containing Low Temperature Sensitive Liposomes in Spontaneous Canine Tumors. Clinical Cancer Research, 2006, 12, 4004-4010. | 7.0 | 138 |
| 67 | Estrogen-Related Receptor Î± Is Critical for the Growth of Estrogen Receptorâ€“Negative Breast Cancer. Cancer Research, 2008, 68, 8805-8812. | 0.9 | 138 |
| 68 | Comparative effects of thermosensitive doxorubicin-containing liposomes and hyperthermia in human and murine tumours. International Journal of Hyperthermia, 2010, 26, 485-498. | 2.5 | 136 |
| 69 | Thermochemoradiotherapy Improves Oxygenation in Locally Advanced Breast Cancer. Clinical Cancer Research, 2004, 10, 4287-4293. | 7.0 | 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. | 7.1 | 130 |
| 71 | Requirements for T Lymphocyte Migration in Explanted Lymph Nodes. Journal of Immunology, 2007, 178, 7747-7755. | 0.8 | 127 |
| 72 | Morphologic and hemodynamic comparison of tumor and healing normal tissue microvasculature. International Journal of Radiation Oncology Biology Physics, 1989, 17, 91-99. | 0.8 | 126 |

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| 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. | 0.8 | 126 |
| 74 | Direct Demonstration of Instabilities in Oxygen Concentrations within the Extravascular Compartment of an Experimental Tumor. Cancer Research, 2006, 66, 2219-2223. | 0.9 | 126 |
| 75 | Angiogenesis: An Adaptive Dynamic Biological Patterning Problem. PLoS Computational Biology, 2013, 9, e1002983. | 3.2 | 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. | 5.0 | 124 |
| 77 | Diverse functions of cationic Mn(III) N-substituted pyridylporphyrins, recognized as SOD mimics. Free Radical Biology and Medicine, 2011, 51, 1035-1053. | 2.9 | 122 |
| 78 | Gene Expression Profiles of Multiple Breast Cancer Phenotypes and Response to Neoadjuvant Chemotherapy. Clinical Cancer Research, 2006, 12, 819-826. | 7.0 | 120 |
| 79 | Chemodosimetry of in vivo tumor liposomal drug concentration using MRI. Magnetic Resonance in Medicine, 2006, 56, 1011-1018. | 3.0 | 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. | 0.9 | 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. | 0.8 | 117 |
| 82 | Intravascular Location of Breast Cancer Cells after Spontaneous Metastasis to the Lung. American Journal of Pathology, 2002, 161, 749-753. | 3.8 | 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. | 0.8 | 113 |
| 84 | ERRÎ±-Regulated Lactate Metabolism Contributes to Resistance to Targeted Therapies in Breast Cancer. Cell Reports, 2016, 15, 323-335. | 6.4 | 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. | 4.1 | 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. | 1.5 | 109 |
| 87 | Perspectives from manâ€™s best friend: National Academy of Medicineâ€™s Workshop on Comparative Oncology. Science Translational Medicine, 2016, 8, 324ps5. | 12.4 | 108 |
| 88 | Measuring tumor hypoxia. Seminars in Radiation Oncology, 1996, 6, 37-45. | 2.2 | 107 |
| 89 | Pretreatment oxygenation profiles of human soft tissue sarcomas. International Journal of Radiation Oncology Biology Physics, 1994, 30, 635-642. | 0.8 | 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. | 3.0 | 105 |

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| 91 | Early Wound Healing Exhibits Cytokine Surge Without Evidence of Hypoxia. Annals of Surgery, 2000, 231, 137. | 4.2 | 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. | 7.1 | 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. | 0.9 | 103 |
| 94 | Intermittent Hypoxia Furthers the Rationale for Hypoxia-Inducible Factor-1 Targeting: Figure 1.. Cancer Research, 2007, 67, 854-855. | 0.9 | 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. | 0.8 | 102 |
| 96 | Epinephrine-induced activation of LW-mediated sickle cell adhesion and vaso-occlusion in vivo. Blood, 2007, 110, 2708-2717. | 1.4 | 101 |
| 97 | Measurement of Material Extravasation in Microvascular Networks Using Fluorescence Video-Microscopy. Microvascular Research, 1993, 46, 231-253. | 2.5 | 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. | 0.8 | 100 |
| 99 | Bromelain treatment decreases neutrophil migration to sites of inflammation. Clinical Immunology, 2008, 128, 66-74. | 3.2 | 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. | 2.5 | 100 |
| 101 | Molecular Imaging of Hypoxia. Journal of Nuclear Medicine, 2011, 52, 165-168. | 5.0 | 100 |
| 102 | Effect of Pazopanib on Tumor Microenvironment and Liposome Delivery. Molecular Cancer Therapeutics, 2010, 9, 1798-1808. | 4.1 | 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. | 2.5 | 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. | 2.7 | 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. | 0.8 | 96 |
| 106 | Tumor Cells Upregulate Normoxic HIF-1Î± in Response to Doxorubicin. Cancer Research, 2013, 73, 6230-6242. | 0.9 | 95 |
| 107 | Erythropoietin Blockade Inhibits the Induction of Tumor Angiogenesis and Progression. PLoS ONE, 2007, 2, e549. | 2.5 | 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. | 2.5 | 93 |

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| 109 | Exercise as Adjunct Therapy in Cancer. Seminars in Radiation Oncology, 2019, 29, 16-24. | 2.2 | 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. | 2.9 | 90 |
| 111 | Tumor-dependent Kinetics of Partial Pressure of Oxygen Fluctuations during Air and Oxygen Breathing. Cancer Research, 2004, 64, 6010-6017. | 0.9 | 89 |
| 112 | Noninvasive visualization of tumors in rodent dorsal skin window chambers. Nature Biotechnology, 1999, 17, 1033-1035. | 17.5 | 88 |
| 113 | Systemic Overexpression of Angiopoietin-2 Promotes Tumor Microvessel Regression and Inhibits Angiogenesis and Tumor Growth. Cancer Research, 2007, 67, 3835-3844. | 0.9 | 88 |
| 114 | Carbonic Anhydrase IX in Early-Stage Nonâ€“Small Cell Lung Cancer. Clinical Cancer Research, 2004, 10, 7925-7933. | 7.0 | 87 |
| 115 | Overexpression of extracellular superoxide dismutase reduces acute radiation induced lung toxicity. BMC Cancer, 2005, 5, 59. | 2.6 | 87 |
| 116 | Perivascular Oxygen Tensions in a Transplantable Mammary Tumor Growing in a Dorsal Flap Window Chamber. Radiation Research, 1992, 130, 171. | 1.5 | 86 |
| 117 | Non-invasive monitoring of intra-tumor drug concentration and therapeutic response using optical spectroscopy. Journal of Controlled Release, 2010, 142, 457-464. | 9.9 | 86 |
| 118 | EFFECTS OF EXERCISE ON PROSTATE CANCER GROWTH IN A MOUSE MODEL. Journal of Urology, 2009, 181, 48-48. | 0.4 | 85 |
| 119 | Targeting tumor microvessels using doxorubicin encapsulated in a novel thermosensitive liposome. Molecular Cancer Therapeutics, 2004, 3, 1311-7. | 4.1 | 85 |
| 120 | The relationship between hypoxia and angiogenesis. Seminars in Radiation Oncology, 2004, 14, 215-221. | 2.2 | 84 |
| 121 | Observation of Incipient Tumor Angiogenesis That Is Independent of Hypoxia and Hypoxia Inducible Factor-1 Activation. Cancer Research, 2005, 65, 5498-5505. | 0.9 | 83 |
| 122 | Review of methods used to study oxygen transport at the microcirculatory level. International Journal of Cancer, 2000, 90, 237-255. | 5.1 | 82 |
| 123 | Thermal Dose Is Related to Duration of Local Control in Canine Sarcomas Treated with Thermoradiotherapy. Clinical Cancer Research, 2005, 11, 5206-5214. | 7.0 | 82 |
| 124 | The Role of Blood-Brain Barrier Permeability in Brain Tumor Imaging and Therapeutics. American Journal of Roentgenology, 2005, 185, 763-767. | 2.2 | 82 |
| 125 | Cyclic Hypoxia: An Update on Its Characteristics, Methods to Measure It and Biological Implications in Cancer. Cancers, 2021, 13, 23. | 3.7 | 82 |
| 126 | The treatment of high-grade soft tissue sarcomas with preoperative thermoradiotherapy. International Journal of Radiation Oncology Biology Physics, 1999, 45, 941-949. | 0.8 | 81 |

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| 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. | 7.1 | 81 |
| 128 | The Potential Role of Intrinsic Hypoxia Markers as Prognostic Variables in Cancer. Antioxidants and Redox Signaling, 2007, 9, 1237-1294. | 5.4 | 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. | 3.2 | 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. | 0.8 | 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. | 0.8 | 78 |
| 132 | Cytokine profiling for prediction of symptomatic radiation-induced lung injury. International Journal of Radiation Oncology Biology Physics, 2005, 63, 1448-1454. | 0.8 | 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. | 2.5 | 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. | 0.8 | 77 |
| 135 | Imaging Tumor Hypoxia to Advance Radiation Oncology. Antioxidants and Redox Signaling, 2014, 21, 313-337. | 5.4 | 77 |
| 136 | A manganese porphyrin superoxide dismutase mimetic enhances tumor radioresponsiveness. International Journal of Radiation Oncology Biology Physics, 2005, 63, 545-552. | 0.8 | 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. | 14.6 | 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. | 0.8 | 70 |
| 140 | A novel rodent mammary window of orthotopic breast cancer for intravital microscopy. Microvascular Research, 2003, 65, 109-117. | 2.5 | 70 |
| 141 | RNA Aptamer-targeted Inhibition of NF-ÎºB Suppresses Non-small Cell Lung Cancer Resistance to Doxorubicin. Molecular Therapy, 2008, 16, 66-73. | 8.2 | 70 |
| 142 | Doxorubicin-conjugated chimeric polypeptide nanoparticles that respond to mild hyperthermia. Journal of Controlled Release, 2012, 159, 362-367. | 9.9 | 70 |
| 143 | The future of biology in driving the field of hyperthermia. International Journal of Hyperthermia, 2016, 32, 4-13. | 2.5 | 69 |
| 144 | Optical imaging of tumor hypoxia dynamics. Journal of Biomedical Optics, 2010, 15, 1. | 2.6 | 68 |

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|---|---|---|---|
| 145 | Improving the Predictive Value of Preclinical Studies in Support of Radiotherapy Clinical Trials. Clinical Cancer Research, 2016, 22, 3138-3147. | 7.0 | 68 |
| 146 | Pharmacokinetic and Phase I Evaluation of Carboplatin in Dogs. Journal of Veterinary Internal Medicine, 1993, 7, 235-240. | 1.6 | 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. | 2.5 | 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. | 3.2 | 64 |
| 149 | A pilot Phase II trial of concurrent radiotherapy, chemotherapy, and hyperthermia for locally advanced cervical carcinoma. Cancer, 2003, 98, 277-282. | 4.1 | 64 |
| 150 | Low molecular weight catalytic metalloporphyrin antioxidant AEOL 10150 protects lungs from fractionated radiation. Free Radical Research, 2007, 41, 1273-1282. | 3.3 | 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. | 2.5 | 64 |
| 152 | New PEG-ylated Mn(<scp>iii</scp>) porphyrins approaching catalytic activity of SOD enzyme. Dalton Transactions, 2006, , 617-624. | 3.3 | 63 |
| 153 | In vivo tumor targeting by a NGR-decorated micelle of a recombinant diblock copolypeptide. Journal of Controlled Release, 2011, 155, 144-151. | 9.9 | 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. | 0.8 | 62 |
| 155 | Analysis of the Heterogeneity of pO2 Dynamics During Photodynamic Therapy with VerteporfinÂ¶. Photochemistry and Photobiology, 2001, 74, 700. | 2.5 | 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. | 4.1 | 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. | 2.9 | 62 |
| 158 | Prospective thermal dosimetry: The key to hyperthermia's future. International Journal of Hyperthermia, 2006, 22, 247-253. | 2.5 | 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. | 3.0 | 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. | 0.8 | 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. | 0.8 | 60 |
| 162 | Enhancement of radiotherapy by hyperthermia-regulated gene therapy. International Journal of Radiation Oncology Biology Physics, 2000, 48, 1513-1518. | 0.8 | 60 |

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