

Edward E Graves

List of Publications by Year in descending order

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85
papers

4,404
citations

109137

35
h-index

110170

64
g-index

88
all docs

88
docs citations

88
times ranked

6318
citing authors

#	ARTICLE	IF	CITATIONS
1	Metabolic Profiling Reveals a Dependency of Human Metastatic Breast Cancer on Mitochondrial Serine and One-Carbon Unit Metabolism. <i>Molecular Cancer Research</i> , 2022, 18, 599-611.	1.5	56
2	Long-term expression changes of immune-related genes in prostate cancer after radiotherapy. <i>Cancer Immunology, Immunotherapy</i> , 2022, 71, 839-850.	2.0	7
3	C3aR Signaling Inhibits NK-cell Infiltration into the Tumor Microenvironment in Mouse Models. <i>Cancer Immunology Research</i> , 2022, 10, 245-258.	1.6	7
4	Tracking Innate Immune Activation in a Mouse Model of Parkinson's Disease Using TREM1 and TSPO PET Tracers. <i>Journal of Nuclear Medicine</i> , 2022, 63, 1570-1578.	2.8	8
5	Radiotherapy alters expression of molecular targets in prostate cancer in a fractionation- and time-dependent manner. <i>Scientific Reports</i> , 2022, 12, 3500.	1.6	4
6	Effects of Focal Ionizing Radiation of the Squid Stellate Ganglion on Synaptic and Axonal Transmission in the Giant-Fiber Pathway. <i>Cureus</i> , 2021, 13, e13110.	0.2	1
7	Pharmacological Regulation of Tumor Hypoxia in Model Murine Tumors and Spontaneous Canine Tumors. <i>Cancers</i> , 2021, 13, 1696.	1.7	5
8	The lncRNAs LINC00261 and LINC00665 are upregulated in long-term prostate cancer adaptation after radiotherapy. <i>Molecular Therapy - Nucleic Acids</i> , 2021, 24, 175-187.	2.3	14
9	The HIF target MAFF promotes tumor invasion and metastasis through IL11 and STAT3 signaling. <i>Nature Communications</i> , 2021, 12, 4308.	5.8	45
10	Y box binding protein 1 inhibition as a targeted therapy for ovarian cancer. <i>Cell Chemical Biology</i> , 2021, 28, 1206-1220.e6.	2.5	19
11	Irradiation or temozolomide chemotherapy enhances anti-CD47 treatment of glioblastoma. <i>Innate Immunity</i> , 2020, 26, 130-137.	1.1	29
12	53BP1/RIF1 signaling promotes cell survival after multifractionated radiotherapy. <i>Nucleic Acids Research</i> , 2020, 48, 1314-1326.	6.5	15
13	An activatable NIR fluorescent rosol for selectively imaging nitroreductase activity. <i>Sensors and Actuators B: Chemical</i> , 2020, 306, 127446.	4.0	28
14	Abdominal FLASH irradiation reduces radiation-induced gastrointestinal toxicity for the treatment of ovarian cancer in mice. <i>Scientific Reports</i> , 2020, 10, 21600.	1.6	119
15	Intravital imaging reveals synergistic effect of CAR T-cells and radiation therapy in a preclinical immunocompetent glioblastoma model. <i>Oncot Immunology</i> , 2020, 9, 1757360.	2.1	46
16	Extracellular cGAMP is a cancer-cell-produced immunotransmitter involved in radiation-induced anticancer immunity. <i>Nature Cancer</i> , 2020, 1, 184-196.	5.7	178
17	Induced Tumor Heterogeneity Reveals Factors Informing Radiation and Immunotherapy Combinations. <i>Clinical Cancer Research</i> , 2020, 26, 2972-2985.	3.2	9
18	FLASH Irradiation Results in Reduced Severe Skin Toxicity Compared to Conventional-Dose-Rate Irradiation. <i>Radiation Research</i> , 2020, 194, 618-624.	0.7	64

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19	Evaluating the Reproducibility of Mouse Anatomy under Rotation in a Custom Immobilization Device for Conformal FLASH Radiotherapy. <i>Radiation Research</i> , 2020, 194, 600-606.	0.7	2
20	The tumour microenvironment links complement system dysregulation and hypoxic signalling. <i>British Journal of Radiology</i> , 2019, 92, 20180069.	1.0	10
21	Radiosensitization of Head and Neck Squamous Cell Carcinoma (HNSCC) by a Podophyllotoxin. <i>ACS Medicinal Chemistry Letters</i> , 2019, 10, 1314-1321.	1.3	8
22	Reduced cognitive deficits after FLASH irradiation of whole mouse brain are associated with less hippocampal dendritic spine loss and neuroinflammation. <i>Radiotherapy and Oncology</i> , 2019, 139, 4-10.	0.3	166
23	Theranostic nanoparticles enhance the response of glioblastomas to radiation. <i>Nanotheranostics</i> , 2019, 3, 299-310.	2.7	13
24	FLT-PET-CT for the Detection of Disease Recurrence After Stereotactic Ablative Radiotherapy or Hyperfractionation for Thoracic Malignancy: A Prospective Pilot Study. <i>Frontiers in Oncology</i> , 2019, 9, 467.	1.3	8
25	Increases in Serial Pretreatment 18F-FDG PET-CT Metrics Predict Survival in Early Stage Non-Small Cell Lung Cancer Treated With Stereotactic Ablative Radiation Therapy. <i>Advances in Radiation Oncology</i> , 2019, 4, 429-437.	0.6	2
26	Preclinical Evaluation of Dose-Volume Effects and Lung Toxicity Occurring In and Out-of-Field. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019, 103, 1231-1240.	0.4	17
27	Targeted and Selective Treatment of Pluripotent Stem Cell-derived Teratomas Using External Beam Radiation in a Small-animal Model. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	0
28	Integrating Small Animal Irradiators with Functional Imaging for Advanced Preclinical Radiotherapy Research. <i>Cancers</i> , 2019, 11, 170.	1.7	20
29	A Near-Infrared Phosphorescent Nanoprobe Enables Quantitative, Longitudinal Imaging of Tumor Hypoxia Dynamics during Radiotherapy. <i>Cancer Research</i> , 2019, 79, 4787-4797.	0.4	20
30	Present developments in reaching an international consensus for a model-based approach to particle beam therapy. <i>Journal of Radiation Research</i> , 2018, 59, i72-i76.	0.8	8
31	18F-EF5 PET-based Imageable Hypoxia Predicts Local Recurrence in Tumors Treated With Highly Conformal Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 102, 1183-1192.	0.4	22
32	The role of granulocyte macrophage colony stimulating factor (GM-CSF) in radiation-induced tumor cell migration. <i>Clinical and Experimental Metastasis</i> , 2018, 35, 247-254.	1.7	11
33	Papaverine and its derivatives radiosensitize solid tumors by inhibiting mitochondrial metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10756-10761.	3.3	121
34	Macrophages Promote Circulating Tumor Cell-Mediated Local Recurrence following Radiotherapy in Immunosuppressed Patients. <i>Cancer Research</i> , 2018, 78, 4241-4252.	0.4	36
35	Detection of nociceptive-related metabolic activity in the spinal cord of low back pain patients using ¹⁸ F-FDG PET/CT. <i>Scandinavian Journal of Pain</i> , 2017, 15, 53-57.	0.5	7
36	Dynamic CT imaging of volumetric changes in pulmonary nodules correlates with physical measurements of stiffness. <i>Radiotherapy and Oncology</i> , 2017, 122, 313-318.	0.3	11

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37	Feasibility of external beam radiation therapy to deep-seated targets with kilovoltage x-rays. <i>Medical Physics</i> , 2017, 44, 597-607.	1.6	12
38	Brief Report: External Beam Radiation Therapy for the Treatment of Human Pluripotent Stem Cell-Derived Teratomas. <i>Stem Cells</i> , 2017, 35, 1994-2000.	1.4	12
39	Mid-radiotherapy PET/CT for prognostication and detection of early progression in patients with stage III non-small cell lung cancer. <i>Radiotherapy and Oncology</i> , 2017, 125, 338-343.	0.3	29
40	BLIMP1 Induces Transient Metastatic Heterogeneity in Pancreatic Cancer. <i>Cancer Discovery</i> , 2017, 7, 1184-1199.	7.7	53
41	Metabolic tumor volume predicts overall survival and local control in patients with stage III non-small cell lung cancer treated in ACRIN 6668/RTOG 0235. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2017, 44, 17-24.	3.3	98
42	Patterns of Vasculature in Mouse Models of Lung Cancer Are Dependent on Location. <i>Molecular Imaging and Biology</i> , 2017, 19, 215-224.	1.3	15
43	Reprogramming the immunological microenvironment through radiation and targeting Axl. <i>Nature Communications</i> , 2016, 7, 13898.	5.8	150
44	Effects of radiation on metastasis and tumor cell migration. <i>Cellular and Molecular Life Sciences</i> , 2016, 73, 2999-3007.	2.4	100
45	The impact of audiovisual biofeedback on 4D functional and anatomic imaging: Results of a lung cancer pilot study. <i>Radiotherapy and Oncology</i> , 2016, 120, 267-272.	0.3	10
46	Quantitative and qualitative analysis of [18F]FDG and [18F]FAZA positron emission tomography of head and neck cancers and associations with HPV status and treatment outcome. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2016, 43, 617-625.	3.3	26
47	Outcomes of Modestly Hypofractionated Radiation for Lung Tumors: Pre- and Mid-Treatment Positron Emission Tomography-Computed Tomography Metrics as Prognostic Factors. <i>Clinical Lung Cancer</i> , 2015, 16, 475-485.	1.1	9
48	18F-EF5 PET Is Predictive of Response to Fractionated Radiotherapy in Preclinical Tumor Models. <i>PLoS ONE</i> , 2015, 10, e0139425.	1.1	17
49	Evaluation of tumor ischemia in response to an indole-based vascular disrupting agent using BLI and (19)F MRI. <i>American Journal of Nuclear Medicine and Molecular Imaging</i> , 2015, 5, 143-53.	1.0	12
50	Imaging radiation response in tumor and normal tissue. <i>American Journal of Nuclear Medicine and Molecular Imaging</i> , 2015, 5, 317-32.	1.0	10
51	The potential of positron emission tomography for intratreatment dynamic lung tumor tracking: A phantom study. <i>Medical Physics</i> , 2014, 41, 021718.	1.6	18
52	PET Imaging of Stroke-Induced Neuroinflammation in Mice Using [18F]PBR06. <i>Molecular Imaging and Biology</i> , 2014, 16, 109-117.	1.3	50
53	Current Status and Recommendations for the Future of Research, Teaching, and Testing in the Biological Sciences of Radiation Oncology: Report of the American Society for Radiation Oncology Cancer Biology/Radiation Biology Task Force, Executive Summary. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 88, 11-17.	0.4	26
54	Recruitment of Circulating Breast Cancer Cells Is Stimulated by Radiotherapy. <i>Cell Reports</i> , 2014, 8, 402-409.	2.9	65

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55	The Relationship Between Serial [¹⁸ F]PBR06 PET Imaging of Microglial Activation and Motor Function Following Stroke in Mice. <i>Molecular Imaging and Biology</i> , 2014, 16, 821-829.	1.3	18
56	Engineering Small Animal Conformal Radiotherapy Systems. , 2014, , 853-875.		1
57	Metabolic Tumor Volume Predicts Disease Progression and Survival in Patients with Squamous Cell Carcinoma of the Anal Canal. <i>Journal of Nuclear Medicine</i> , 2013, 54, 27-32.	2.8	51
58	Modality comparison for small animal radiotherapy: A simulation study. <i>Medical Physics</i> , 2013, 41, 011710.	1.6	27
59	Prognostic and Predictive Significance of Plasma HGF and IL-8 in a Phase III Trial of Chemoradiation with or without Tirapazamine in Locoregionally Advanced Head and Neck Cancer. <i>Clinical Cancer Research</i> , 2012, 18, 1798-1807.	3.2	56
60	X-ray Computed Tomography Principles and Contrast Agents. , 2012, , 795-827.		2
61	GPU-enabled PET motion compensation using sparse and low-rank decomposition. , 2012, , .		3
62	Prognostic PET 18F-FDG Uptake Imaging Features Are Associated with Major Oncogenomic Alterations in Patients with Resected Non-Small Cell Lung Cancer. <i>Cancer Research</i> , 2012, 72, 3725-3734.	0.4	111
63	Metabolic Tumor Volume is an Independent Prognostic Factor in Patients Treated Definitively for Non-Small-Cell Lung Cancer. <i>Clinical Lung Cancer</i> , 2012, 13, 52-58.	1.1	83
64	Correlation between metabolic tumor volume and pathologic tumor volume in squamous cell carcinoma of the oral cavity. <i>Radiotherapy and Oncology</i> , 2011, 101, 356-361.	0.3	40
65	Facilitating multimodal preclinical imaging studies in mice by using an immobilization bed. <i>Comparative Medicine</i> , 2011, 61, 499-504.	0.4	5
66	Investigation of the effects of treatment planning variables in small animal radiotherapy dose distributions. <i>Medical Physics</i> , 2010, 37, 590-599.	1.6	20
67	The Tumor Microenvironment in Non-Small-Cell Lung Cancer. <i>Seminars in Radiation Oncology</i> , 2010, 20, 156-163.	1.0	108
68	18Fluorodeoxyglucose PET Is Prognostic of Progression-Free and Overall Survival in Locally Advanced Pancreas Cancer Treated With Stereotactic Radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 77, 1420-1425.	0.4	119
69	Development of a Micro-Computed Tomography-Based Image-Guided Conformal Radiotherapy System for Small Animals. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 78, 297-305.	0.4	67
70	Hypoxia in Models of Lung Cancer: Implications for Targeted Therapeutics. <i>Clinical Cancer Research</i> , 2010, 16, 4843-4852.	3.2	81
71	A bone composition model for Monte Carlo x-ray transport simulations. <i>Medical Physics</i> , 2009, 36, 1008-1018.	1.6	28
72	Commissioning of a novel microCT/RT system for small animal conformal radiotherapy. <i>Physics in Medicine and Biology</i> , 2009, 54, 3727-3740.	1.6	41

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73	The Role of Tumor Cellâ€Derived Connective Tissue Growth Factor (CTGF/CCN2) in Pancreatic Tumor Growth. <i>Cancer Research</i> , 2009, 69, 775-784.	0.4	129
74	Metabolic Tumor Volume Predicts for Recurrence and Death in Head-and-Neck Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009, 74, 1335-1341.	0.4	186
75	Kilovoltage beam Monte Carlo dose calculations in submillimeter voxels for small animal radiotherapy. <i>Medical Physics</i> , 2009, 36, 4991-4999.	1.6	35
76	Design and evaluation of a variable aperture collimator for conformal radiotherapy of small animals using a microCT scanner. <i>Medical Physics</i> , 2007, 34, 4359-4367.	1.6	85
77	RT_Image: An Open-Source Tool for Investigating PET in Radiation Oncology. <i>Technology in Cancer Research and Treatment</i> , 2007, 6, 111-121.	0.8	62
78	Metabolic Tumor Burden Predicts for Disease Progression and Death in Lung Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 69, 328-333.	0.4	179
79	Imaging tumoral hypoxia: oxygen concentrations and beyond. <i>Oncology</i> , 2007, 21, 368-76; discussion 377-8, 384.	0.4	4
80	Perfusion, diffusion and spectroscopy values in newly diagnosed cerebral gliomas. <i>NMR in Biomedicine</i> , 2006, 19, 463-475.	1.6	118
81	Validation of in vivo fluorochrome concentrations measured using fluorescence molecular tomography. <i>Journal of Biomedical Optics</i> , 2005, 10, 044019.	1.4	41
82	Visualization of antitumor treatment by means of fluorescence molecular tomography with an annexin V-Cy5.5 conjugate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 12294-12299.	3.3	355
83	Singular-value analysis and optimization of experimental parameters in fluorescence molecular tomography. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2004, 21, 231.	0.8	83
84	A submillimeter resolution fluorescence molecular imaging system for small animal imaging. <i>Medical Physics</i> , 2003, 30, 901-911.	1.6	369
85	Registration of magnetic resonance spectroscopic imaging to computed tomography for radiotherapy treatment planning. <i>Medical Physics</i> , 2001, 28, 2489-2496.	1.6	34