Anthony Chalmers

List of Publications by Year
in descending order

87 papers	4,988 citations	136950 32 h-index	98798 67 g-index
93 all docs	93 docs citations	93 times ranked	8724 citing authors

#	Article	IF	Citations
1	Glutamatergic synaptic input to glioma cells drives brain tumour progression. Nature, 2019, 573, 532-538.	27.8	628
2	Glutamine synthetase activity fuels nucleotide biosynthesis and supports growth of glutamine-restricted glioblastoma. Nature Cell Biology, 2015, 17, 1556-1568.	10.3	423
3	Limited Mitochondrial Permeabilization Causes DNA Damage and Genomic Instability in the Absence of Cell Death. Molecular Cell, 2015, 57, 860-872.	9.7	341
4	ESTRO-ACROP guideline â€œtarget delineation of glioblastomasâ€• Radiotherapy and Oncology, 2016, 118, 35-42.	0.6	286
5	Clinical development of new drugâ€“radiotherapy combinations. Nature Reviews Clinical Oncology, 2016, 13, 627-642.	27.6	230
6	Replication-Dependent Radiosensitization of Human Glioma Cells by Inhibition of Poly(ADP-Ribose) Polymerase: Mechanisms and Therapeutic Potential. International Journal of Radiation Oncology Biology Physics, 2008, 72, 1188-1197.	0.8	190
7	Systematic review of supportive care needs in patients with primary malignant brain tumors. Neuro-Oncology, 2012, 14, 392-404.	1.2	166
8	Psychosocial and supportive-care needs in high-grade glioma. Lancet Oncology, The, 2008, 9, 884-891.	10.7	156
9	Selective Inhibition of Parallel DNA Damage Response Pathways Optimizes Radiosensitization of Glioblastoma Stem-like Cells. Cancer Research, 2015, 75, 4416-4428.	0.9	154
10	Poly(ADP-Ribose) Polymerase Inhibition as a Model for Synthetic Lethality in Developing Radiation Oncology Targets. Seminars in Radiation Oncology, 2010, 20, 274-281.	2.2	123
11	Sensitization to Radiation and Alkylating Agents by Inhibitors of Poly(ADP-ribose) Polymerase Is Enhanced in Cells Deficient in DNA Double-Strand Break Repair. Molecular Cancer Therapeutics, 2010, 9, 1775-1787.	4.1	118
12	Replication Stress Drives Constitutive Activation of the DNA Damage Response and Radioresistance in Glioblastoma Stem-like Cells. Cancer Research, 2018, 78, 5060-5071.	0.9	118
13	Abrogation of radioresistance in glioblastoma stemâ€like cells by inhibition of ATM kinase. Molecular Oncology, 2015, 9, 192-203.	4.6	108
14	Enhanced radiosensitization of human glioma cells by combining inhibition of poly(ADP-ribose) polymerase with inhibition of heat shock protein 90. Molecular Cancer Therapeutics, 2009, 8, 2243-2254.	4.1	103
15	Practice-changing radiation therapy trials for the treatment of cancer: where are we 150 years after the birth of Marie Curie?. British Journal of Cancer, 2018, 119, 389-407.	6.4	92
16	Topoisomerase I inhibition in colorectal cancer: biomarkers and therapeutic targets. British Journal of Cancer, 2012, 106, 18-24.	6.4	91
17	The potential role and application of PARP inhibitors in cancer treatment. British Medical Bulletin, 2008, 89, 23-40.	6.9	88
18	Radioresistance of glioma stem cells: Intrinsic characteristic or property of the â€˜microenvironmentâ€stem cell unitâ€™?. Molecular Oncology, 2011, 5, 374-386.	4.6	88

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19	Pharmacokinetics, safety, and tolerability of olaparib and temozolomide for recurrent glioblastoma: results of the phase I OPARATIC trial. Neuro-Oncology, 2020, 22, 1840-1850.	1.2	77
20	A novel 3D human glioblastoma cell culture system for modeling drug and radiation responses. Neuro-Oncology, 2017, 19, now164.	1.2	75
21	Is Radiotherapy Useful for Treating Pain in Mesothelioma?: A Phase II Trial. Journal of Thoracic Oncology, 2015, 10, 944-950.	1.1	73
22	DNA Repair and Resistance to Topoisomerase I Inhibitors: Mechanisms, Biomarkers and Therapeutic Targets. Current Medicinal Chemistry, 2012, 19, 3874-3885.	2.4	67
23	NOTCH blockade combined with radiation therapy and temozolomide prolongs survival of orthotopic glioblastoma. Oncotarget, 0, 7, 41251-41264.	1.8	65
24	Clinical and Cellular Roles for TDP1 and TOP1 in Modulating Colorectal Cancer Response to Irinotecan. Molecular Cancer Therapeutics, 2015, 14, 575-585.	4.1	59
25	Glioblastomaâ€™s Next Top Model: Novel Culture Systems for Brain Cancer Radiotherapy Research. Cancers, 2019, 11, 44.	3.7	59
26	PARADIGM-2: Two parallel phase I studies of olaparib and radiotherapy or olaparib and radiotherapy plus temozolomide in patients with newly diagnosed glioblastoma, with treatment stratified by MGMT status. Clinical and Translational Radiation Oncology, 2018, 8, 12-16.	1.7	51
27	Changes in the Secretory Profile of NSCLC-Associated Fibroblasts after Ablative Radiotherapy: Potential Impact on Angiogenesis and Tumor Growth. Translational Oncology, 2013, 6, 66-74.	3.7	50
28	Synthesis and Evaluation of a Radioiodinated Tracer with Specificity for Poly(ADP-ribose) Polymerase-1 (PARP-1) in Vivo. Journal of Medicinal Chemistry, 2015, 58, 8683-8693.	6.4	50
29	Differential sensitivity of Glioma stem cells to Aurora kinase A inhibitors: Implications for stem cell mitosis and centrosome dynamics. Stem Cell Research, 2014, 13, 135-143.	0.7	43
30	PP2A Inhibitor PME-1 Drives Kinase Inhibitor Resistance in Glioma Cells. Cancer Research, 2016, 76, 7001-7011.	0.9	41
31	Health economic evaluation of a serum-based blood test for brain tumour diagnosis: exploration of two clinical scenarios. BMJ Open, 2018, 8, e017593.	1.9	40
32	Focused very high-energy electron beams as a novel radiotherapy modality for producing high-dose volumetric elements. Scientific Reports, 2019, 9, 10837.	3.3	40
33	Radioresistant glioma stem cellsâ€”Therapeutic obstacle or promising target?. DNA Repair, 2007, 6, 1391-1394.	2.8	35
34	Loss of TGFÎ² signaling increases alternative end-joining DNA repair that sensitizes to genotoxic therapies across cancer types. Science Translational Medicine, 2021, 13, .	12.4	33
35	Hypoxia-inducible factor 1 alpha is required for the tumourigenic and aggressive phenotype associated with Rab25 expression in ovarian cancer. Oncotarget, 2016, 7, 22650-22664.	1.8	33
36	Radiation-Induced Transformation of Immunoregulatory Networks in the Tumor Stroma. Frontiers in Immunology, 2018, 9, 1679.	4.8	31

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37	Diagnostic and Prognostic Biomarkers in the Rational Assessment of Mesothelioma (DIAPHRAGM) study: protocol of a prospective, multicentre, observational study. BMJ Open, 2016, 6, e013324.	1.9	29
38	A DNA Repair and Cell-Cycle Gene Expression Signature in Primary and Recurrent Glioblastoma: Prognostic Value and Clinical Implications. Cancer Research, 2019, 79, 1226-1238.	0.9	26
39	Glioblastoma in the elderly â€" How do we choose who to treat?. Journal of Geriatric Oncology, 2016, 7, 453-456.	1.0	25
40	Radiation Responses of 2D and 3D Glioblastoma Cells: A Novel, 3D-specific Radioprotective Role of VEGF/Akt Signaling through Functional Activation of NHEJ. Molecular Cancer Therapeutics, 2020, 19, 575-589.	4.1	24
41	Multifaceted transforming growth factor-beta (TGFÎ²) signalling in glioblastoma. Cellular Signalling, 2020, 72, 109638.	3.6	23
42	A Novel Small-Molecule Inhibitor of MRCK Prevents Radiation-Driven Invasion in Glioblastoma. Cancer Research, 2018, 78, 6509-6522.	0.9	22
43	Pre-EDIT. Chest, 2019, 156, 1204-1213.	0.8	22
44	GBM radiosensitizers: dead in the waterâ€¦ or just the beginning?. Journal of Neuro-Oncology, 2017, 134, 513-521.	2.9	19
45	An ¹⁸F-Labeled Poly(ADP-ribose) Polymerase Positron Emission Tomography Imaging Agent. Journal of Medicinal Chemistry, 2018, 61, 4103-4114.	6.4	19
46	Cytotoxicity and Radiosensitizing Activity of the Fatty Acid Synthase Inhibitor C75 Is Enhanced by Blocking Fatty Acid Uptake in Prostate Cancer Cells. Advances in Radiation Oncology, 2020, 5, 994-1005.	1.2	19
47	A novel ¹⁸F-labelled high affinity agent for PET imaging of the translocator protein. Chemical Science, 2015, 6, 4772-4777.	7.4	17
48	SYSTEMS-2: A randomised phase II study of radiotherapy dose escalation for pain control in malignant pleural mesothelioma. Clinical and Translational Radiation Oncology, 2018, 8, 45-49.	1.7	16
49	The role of radical radiotherapy in the management of malignant pleural mesothelioma: A systematic review. Radiotherapy and Oncology, 2017, 125, 1-12.	0.6	15
50	CONCORDE: A phase I platform study of novel agents in combination with conventional radiotherapy in non-small-cell lung cancer. Clinical and Translational Radiation Oncology, 2020, 25, 61-66.	1.7	15
51	Science in Focus: Combining Radiotherapy with Inhibitors of the DNA Damage Response. Clinical Oncology, 2016, 28, 279-282.	1.4	14
52	Patient-specific 3D-printed glioblastomas. Nature Biomedical Engineering, 2019, 3, 498-499.	22.5	14
53	Quantitative histopathologic assessment of perfusion MRI as a marker of glioblastoma cell infiltration in and beyond the peritumoral edema region. Journal of Magnetic Resonance Imaging, 2019, 50, 529-540.	3.4	13
54	Mesothelioma Cells Depend on the Antiapoptotic Protein Bcl-xL for Survival and Are Sensitized to Ionizing Radiation by BH3-Mimetics. International Journal of Radiation Oncology Biology Physics, 2020, 106, 867-877.	0.8	13

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55	Clinician Attitudes to Using Low-Dose Radiation Therapy to Treat COVID-19 Lung Disease. International Journal of Radiation Oncology Biology Physics, 2021, 109, 886-890.	0.8	13
56	Low-Dose Lung Radiation Therapy for COVID-19 Lung Disease: A Preclinical Efficacy Study in a Bleomycin Model of Pneumonitis. International Journal of Radiation Oncology Biology Physics, 2022, 112, 197-211.	0.8	13
57	The potential of PARP inhibitors in neuro-oncology. CNS Oncology, 2012, 1, 85-97.	3.0	12
58	Evaluation of four different small animal radiation plans on tumour and normal tissue dosimetry in a glioblastoma mouse model. British Journal of Radiology, 2019, 92, 20180469.	2.2	12
59	ADVANCES IN MUCOSAL IMMUNOLOGY. Gastroenterology Clinics of North America, 1997, 26, 145-173.	2.2	11
60	A UKâ€wide survey of followâ€up practices for patients with highâ€grade glioma treated with radical intent. Journal of Evaluation in Clinical Practice, 2011, 17, 1-6.	1.8	11
61	Targeting DNA repair in gliomas. Current Opinion in Neurology, 2019, 32, 878-885.	3.6	11
62	An International Expert Survey on the Indications and Practice of Radical Thoracic Reirradiation for Non-Small Cell Lung Cancer. Advances in Radiation Oncology, 2021, 6, 100653.	1.2	11
63	Quantitative in vivo bioluminescence imaging of orthotopic patient-derived glioblastoma xenografts. Scientific Reports, 2020, 10, 15361.	3.3	10
64	Serum Proteomics and Plasma Fibulin-3 in Differentiation of Mesothelioma From Asbestos-Exposed Controls and Patients With Other Pleural Diseases. Journal of Thoracic Oncology, 2021, 16, 1705-1717.	1.1	10
65	Increased apoptotic sensitivity of glioblastoma enables therapeutic targeting by BH3-mimetics. Cell Death and Differentiation, 2022, 29, 2089-2104.	11.2	10
66	Supportive follow-up in patients treated with radical intent for high-grade glioma. CNS Oncology, 2012, 1, 39-48.	3.0	9
67	Radiotherapy-Poly(ADP-ribose) Polymerase Inhibitor Combinations: Progress to Date. Seminars in Radiation Oncology, 2022, 32, 15-28.	2.2	8
68	Hydroxychloroquine and short-course radiotherapy in elderly patients with newly diagnosed high-grade glioma: a randomized phase II trial. Neuro-Oncology Advances, 2020, 2, vdaa046.	0.7	7
69	Multiple boli arterial spin labeling for high signalâ€toâ€noise rodent brain perfusion imaging. Magnetic Resonance in Medicine, 2018, 79, 1020-1030.	3.0	7
70	The Challenges Faced in Developing Novel Drug Radiation Combinations in Non-small Cell Lung Cancer. Clinical Oncology, 2016, 28, 720-725.	1.4	6
71	Radiation-induced neuroinflammation: a potential protective role for poly(ADP-ribose) polymerase inhibitors?. Neuro-Oncology Advances, 2022, 4, vdab190.	0.7	6
72	Geriatric assessment of glioblastoma patients is feasible and may provide useful prognostic information. Neuro-Oncology Practice, 2020, 7, 176-184.	1.6	5

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73	Pre-EDIT: protocol for a randomised feasibility trial of elastance-directed intrapleural catheter or talc pleurodesis (EDIT) in malignant pleural effusion. BMJ Open Respiratory Research, 2018, 5, e000293.	3.0	5
74	Radiotherapy-drug combinations in the treatment of glioblastoma: a brief review. CNS Oncology, 2022, 11, .	3.0	5
75	An Achilles' heel for breast cancer?. Nature Structural and Molecular Biology, 2005, 12, 387-388.	8.2	4
76	Stacked in-plane histology for quantitative validation of non-invasive imaging biomarkers: Application to an infiltrative brain tumour model. Journal of Neuroscience Methods, 2019, 326, 108372.	2.5	4
77	CTRad 10 Years On: From 10-point Plan to Top 10 Achievements. Clinical Oncology, 2020, 32, 9-12.	1.4	4
78	Assembling the brain trust: the multidisciplinary imperative in neuro-oncology. Nature Reviews Clinical Oncology, 2019, 16, 521-522.	27.6	3
79	An audit of the management of elderly patients with glioblastoma in the UK: have recent trial results changed treatment?. CNS Oncology, 2019, 8, CNS47.	3.0	3
80	Evaluating novel radiation techniques for the treatment of cerebral metastases. British Journal of Radiology, 2010, 83, 98-100.	2.2	2
81	Personal View: Low-Dose Lung Radiotherapy Should be Evaluated as a Treatment for Severe COVID-19 Lung Disease. Clinical Oncology, 2021, 33, e64-e68.	1.4	2
82	Radiobiology Summaries: DNA Damage and Repair. Clinical Oncology, 2021, 33, 275-278.	1.4	2
83	Improving the Therapeutic Ratio of Radiotherapy by Targeting the DNA Damage Response. Cancer Drug Discovery and Development, 2017, , 1-34.	0.4	2
84	Targeting PARP for Chemoradiosensitization: Opportunities, Challenges, and the Road Ahead. International Journal of Radiation Oncology Biology Physics, 2022, 112, 265-270.	0.8	1
85	DNA Repair in Radiation Oncology. , 2019, , 1-16.		0
86	Hidden in plain sight: promising therapeutic targets for glioblastoma lurk within DNA damage response pathways. Translational Cancer Research, 2017, 6, S438-S440.	1.0	0
87	Evaluating potential of multi-parametric MRI using co-registered histology: Application to a mouse model of glioblastoma. Magnetic Resonance Imaging, 2022, 85, 121-127.	1.8	0