

# Alasdair Syme

## List of Publications by Year in descending order

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35  
papers

557  
citations

832787

10  
h-index

626276

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g-index

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times ranked

1099  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing the impact of intrafraction motion correction on PTV margins and target and OAR dosimetry for single-fraction free-breathing lung stereotactic body radiation therapy. <i>Medical Dosimetry</i> , 2023, 48, 202-210.	0.8	0
2	Static couch non-coplanar arc selection optimization for lung SBRT treatment planning. <i>Physics in Medicine and Biology</i> , 2023, 68, 155011.	3.0	1
3	Preliminary comparison of organic electret-style devices on silicon and flexible plastic substrates as real-time ionizing radiation dosimeters. <i>Organic Electronics</i> , 2023, 122, 106910.	2.7	0
4	Patient-specific collision zones for 4 $\pi$ trajectory optimized radiation therapy. <i>Medical Physics</i> , 2022, 49, 1407-1416.	2.9	7
5	Precision dosimetry in yttrium-90 radioembolization through CT imaging of radiopaque microspheres in a rabbit liver model. <i>EJNMMI Physics</i> , 2022, 9, 21.	2.8	12
6	Intra-arc binary collimation with dynamic axes trajectory optimization for the SRS treatment of multiple metastases with multiple prescriptions. <i>Medical Physics</i> , 2022, , .	2.9	0
7	Mean Arc Distance (MAD): a quantity to compare trajectory 4 $\pi$ sampling in single target cranial stereotactic radiotherapy. <i>Biomedical Physics and Engineering Express</i> , 2022, 8, 055006.	1.2	2
8	Poly(3-hexylthiophene-2,5-diyl) based diodes for ionizing radiation dosimetry applications. <i>Organic Electronics</i> , 2021, 88, 105981.	2.7	7
9	Post-administration dosimetry in yttrium-90 radioembolization through micro-CT imaging of radiopaque microspheres in a porcine renal model. <i>Physics in Medicine and Biology</i> , 2021, 66, 095011.	3.0	6
10	Investigating the impacts of intrafraction motion on dosimetric outcomes when treating small targets with virtual cones. <i>Journal of Applied Clinical Medical Physics</i> , 2021, 22, 60-71.	1.8	2
11	SBRT of ventricular tachycardia using 4 $\pi$ optimized trajectories. <i>Journal of Applied Clinical Medical Physics</i> , 2021, 22, 72-86.	1.8	7
12	Measuring small field profiles and output factors with a stemless plastic scintillator array. <i>Medical Physics</i> , 2021, , .	2.9	1
13	Preliminary Evaluation of Pentacene Field Effect Transistors with Polymer Gate Electret as Ionizing Radiation Dosimeters. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11368.	2.6	2
14	Toward the combined optimization of dynamic axes (CODA) for stereotactic radiotherapy and radiosurgery using fixed couch trajectories. <i>Medical Physics</i> , 2020, 47, 307-316.	2.9	12
15	Fabrication and characterization of a stemless plastic scintillation detector. <i>Medical Physics</i> , 2020, 47, 5882-5889.	2.9	4
16	Radiation induced photocurrent in the active volume of P3HT/PCBM BHJ photodiodes. <i>Organic Electronics</i> , 2020, 85, 105890.	2.7	7
17	Method for the differentiation of radiation-induced photocurrent from total measured current in P3HT/PCBM BHJ photodiodes. <i>MethodsX</i> , 2020, 7, 101125.	1.6	1
18	Quantification of the inherent radiopacity of glass microspheres for precision dosimetry in yttrium-90 radioembolization. <i>Biomedical Physics and Engineering Express</i> , 2019, 5, 055011.	1.2	6

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19	Individualized Dose-Escalation of HDR Prostate Brachytherapy Implant to Decrease Required External Beam Radiation Dose: A Retrospective Feasibility Study. <i>Advances in Radiation Oncology</i> , 2019, 4, 641-648.	1.2	0
20	Toward a pre-clinical irradiator using clinical infrastructure. <i>Physica Medica</i> , 2019, 58, 21-31.	0.7	4
21	Dynamic collimator trajectory algorithm for multiple metastases dynamic conformal arc treatment planning. <i>Medical Physics</i> , 2018, 45, 5-17.	2.9	16
22	Absorbed dose kernel and self-shielding calculations for a novel radiopaque glass microsphere for transarterial radioembolization. <i>Medical Physics</i> , 2018, 45, 934-942.	2.9	4
23	Intra-arc binary collimation algorithm for the optimization of stereotactic radiotherapy treatment of multiple metastases with multiple prescriptions. <i>Medical Physics</i> , 2018, 45, 5597-5607.	2.9	5
24	Preliminary characterization of the response of an organic field effect transistor to ionizing radiation. <i>Radiation Measurements</i> , 2018, 118, 31-35.	1.4	9
25	CTCF facilitates DNA double-strand break repair by enhancing homologous recombination repair. <i>Science Advances</i> , 2017, 3, e1601898.	10.8	59
26	Single-Dose Radiation-Induced Oral Mucositis Mouse Model. <i>Frontiers in Oncology</i> , 2016, 6, 154.	2.9	19
27	Adipose mesenchymal stromal cells minimize and repair radiation-induced oral mucositis. <i>Cytotherapy</i> , 2016, 18, 1129-1145.	0.7	22
28	Adipose mesenchymal stromal cells response to ionizing radiation. <i>Cytotherapy</i> , 2016, 18, 384-401.	0.7	18
29	Phosphorylation of eIF2 $\beta$ Is a Translational Control Mechanism Regulating Muscle Stem Cell Quiescence and Self-Renewal. <i>Cell Stem Cell</i> , 2016, 18, 79-90.	10.7	216
30	Prospective phase II study of tomotherapy based chemoradiation treatment for locally advanced anal cancer. <i>Radiotherapy and Oncology</i> , 2015, 117, 234-239.	0.6	17
31	Radiochromic film-based quality assurance for CT-based high-dose-rate brachytherapy. <i>Brachytherapy</i> , 2015, 14, 578-585.	0.8	9
32	ADC response to radiation therapy correlates with induced changes in radiosensitivity. <i>Medical Physics</i> , 2010, 37, 3855-3861.	2.9	9
33	A treatment planning study comparing helical tomotherapy with intensity-modulated radiotherapy for the treatment of anal cancer. <i>Radiotherapy and Oncology</i> , 2010, 94, 60-66.	0.6	33
34	Temporal and dose dependence of T2 and ADC at 9.4 T in a mouse model following single fraction radiation therapy. <i>Medical Physics</i> , 2009, 36, 2948-2954.	2.9	17
35	Machine learning for contour classification in TG263 noncompliant databases. <i>Journal of Applied Clinical Medical Physics</i> , 0, , .	1.8	1