

# Daniel R McGowan

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

1,235  
citations

394421

19  
h-index

377865

34  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1395  
citing authors

#	ARTICLE	IF	CITATIONS
1	Image enhancement of whole-body oncology [18F]-FDG PET scans using deep neural networks to reduce noise. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 539-549.	6.4	30
2	Advances in PET/CT Technology: An Update. <i>Seminars in Nuclear Medicine</i> , 2022, 52, 286-301.	4.6	12
3	Characterising 18F-fluciclovine uptake in breast cancer through the use of dynamic PET/CT imaging. <i>British Journal of Cancer</i> , 2022, 126, 598-605.	6.4	4
4	Effects of Respiratory Motion on Y-90 PET Dosimetry for SIRT. <i>Diagnostics</i> , 2022, 12, 194.	2.6	2
5	Multimodal PET/CT Tumour Segmentation and Prediction of Progression-Free Survival Using a Full-Scale UNet with Attention. <i>Lecture Notes in Computer Science</i> , 2022, , 189-201.	1.3	7
6	Deep learning-based time-of-flight (ToF) image enhancement of non-ToF PET scans. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 3740-3749.	6.4	20
7	Guidance on medical physics expert support for nuclear medicine. <i>British Journal of Radiology</i> , 2022, 95, .	2.2	3
8	Dopaminergic imaging and clinical predictors for phenoconversion of REM sleep behaviour disorder. <i>Brain</i> , 2021, 144, 278-287.	7.6	68
9	Mitochondrial Inhibitor Atovaquone Increases Tumor Oxygenation and Inhibits Hypoxic Gene Expression in Patients with Non-Small Cell Lung Cancer. <i>Clinical Cancer Research</i> , 2021, 27, 2459-2469.	7.0	40
10	A solution to PET brain motion artefact. <i>Journal of Neurology</i> , 2021, 268, 3476-3477.	3.6	3
11	New PET technologies – embracing progress and pushing the limits. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 2711-2726.	6.4	35
12	A multicentre and multi-national evaluation of the accuracy of quantitative Lu-177 SPECT/CT imaging performed within the MRT Dosimetry project. <i>EJNMMI Physics</i> , 2021, 8, 55.	2.7	34
13	The internal dosimetry user group position statement on molecular radiotherapy. <i>British Journal of Radiology</i> , 2021, 94, 20210547.	2.2	6
14	Reply: Data-Driven Motion Correction in Clinical PET: A Joint Accomplishment of Creative Academia and Industry. <i>Journal of Nuclear Medicine</i> , 2021, 62, 435-435.	5.0	0
15	Investigation of atovaquone-induced spatial changes in tumour hypoxia assessed by hypoxia PET/CT in non-small cell lung cancer patients. <i>EJNMMI Research</i> , 2021, 11, 130.	2.5	9
16	Nigrosome 1 imaging in REM sleep behavior disorder and its association with dopaminergic decline. <i>Annals of Clinical and Translational Neurology</i> , 2020, 7, 26-35.	3.7	32
17	Repurposing Atovaquone as a Tumor Hypoxia Modifier: A Window of Opportunity Study in Patients with Resectable Non-small Cell Lung Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 108, S173.	0.8	0
18	The Impact of Radiobiologically Informed Dose Prescription on the Clinical Benefit of <sup>90</sup> Y SIRT in Colorectal Cancer Patients. <i>Journal of Nuclear Medicine</i> , 2020, 61, 1658-1664.	5.0	8

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19	Data-Driven Respiratory Gating Outperforms Device-Based Gating for Clinical <sup>18</sup> F-FDG PET/CT. <i>Journal of Nuclear Medicine</i> , 2020, 61, 1678-1683.	5.0	39
20	Evaluation of data-driven respiratory gating waveforms for clinical PET imaging. <i>EJNMMI Research</i> , 2019, 9, 1.	2.5	42
21	Optimising quantitative 90Y PET imaging: an investigation into the effects of scan length and Bayesian penalised likelihood reconstruction. <i>EJNMMI Research</i> , 2019, 9, 40.	2.5	20
22	Reply to "The use of buparlisib as a radiosensitiser: What about toxicity?". <i>European Journal of Cancer</i> , 2019, 119, 196-197.	2.8	0
23	Buparlisib with thoracic radiotherapy and its effect on tumour hypoxia: A phase I study in patients with advanced non-small cell lung carcinoma. <i>European Journal of Cancer</i> , 2019, 113, 87-95.	2.8	35
24	An investigation into the accuracy of using serum creatinine estimated glomerular filtration rate to predict measured glomerular filtration rate. <i>Nuclear Medicine Communications</i> , 2019, 40, 349-352.	1.1	5
25	Eighty per cent more patients in 10 years of UK molecular radiotherapy. <i>Nuclear Medicine Communications</i> , 2019, 40, 657-661.	1.1	10
26	Time-series hyperpolarized xenon-129 MRI of lobar lung ventilation of COPD in comparison to V/Q-SPECT/CT and CT. <i>European Radiology</i> , 2019, 29, 4058-4067.	4.5	36
27	Bayesian penalised likelihood reconstruction (Q.Clear) of <sup>18</sup> F-fluciclovine PET for imaging of recurrent prostate cancer: semi-quantitative and clinical evaluation. <i>British Journal of Radiology</i> , 2018, 91, 20170727.	2.2	28
28	Evaluation of principal component analysis-based data-driven respiratory gating for positron emission tomography. <i>British Journal of Radiology</i> , 2018, 91, 20170793.	2.2	27
29	Effect of a Bayesian Penalized Likelihood PET Reconstruction Compared With Ordered Subset Expectation Maximization on Clinical Image Quality Over a Wide Range of Patient Weights. <i>American Journal of Roentgenology</i> , 2018, 210, 153-157.	2.2	27
30	4D-PET reconstruction using a spline-residue model with spatial and temporal roughness penalties. <i>Physics in Medicine and Biology</i> , 2018, 63, 095013.	3.0	4
31	Embrace Progress. <i>Journal of Nuclear Medicine</i> , 2018, 59, 1169-1169.	5.0	3
32	A comparison of four-sample slope-intercept and single-sample <sup>51</sup> Cr-EDTA glomerular filtration rate measurements. <i>Nuclear Medicine Communications</i> , 2018, 39, 465-468.	1.1	5
33	P1.13-31 Safety and Tumour Hypoxia Modifying Effect of Buparlisib with Radiotherapy in NSCLC: A Phase I Dose Escalation Study. <i>Journal of Thoracic Oncology</i> , 2018, 13, S594.	1.1	0
34	Whole tumor kinetics analysis of <sup>18</sup> F-fluoromisonidazole dynamic PET scans of non-small cell lung cancer patients, and correlations with perfusion CT blood flow. <i>EJNMMI Research</i> , 2018, 8, 73.	2.5	4
35	Integrated Pharmacodynamic Analysis Identifies Two Metabolic Adaption Pathways to Metformin in Breast Cancer. <i>Cell Metabolism</i> , 2018, 28, 679-688.e4.	16.2	92
36	Apathy in rapid eye movement sleep behaviour disorder is associated with serotonin depletion in the dorsal raphe nucleus. <i>Brain</i> , 2018, 141, 2848-2854.	7.6	21

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37	Phantom and clinical evaluation of the effect of full Monte Carlo collimator modelling in post-SIRT yttrium-90 Bremsstrahlung SPECT imaging. EJMNM Research, 2018, 8, 7.	2.5	13
38	Fast Groupwise 4D Deformable Image Registration for Irregular Breathing Motion Estimation. Lecture Notes in Computer Science, 2018, , 37-46.	1.3	2
39	Eight years of growth and change in UK molecular radiotherapy with implications for the future. Nuclear Medicine Communications, 2017, 38, 201-204.	1.1	11
40	Harmonizing standardized uptake value recovery between two PET/CT systems from different manufacturers when using resolution modelling and time-of-flight. Nuclear Medicine Communications, 2017, 38, 650-655.	1.1	8
41	<sup>18</sup> F-fluoromisonidazole uptake in advanced stage non-small cell lung cancer: A voxel-by-voxel PET kinetics study. Medical Physics, 2017, 44, 4665-4676.	3.0	16
42	4D-PET reconstruction of dynamic non-small cell lung cancer [18-F]-FMISO-PET data using adaptive-knot cubic B-splines. , 2017, , .		1
43	Software Respiratory Gating of Positron Emission Tomographyâ€“Computed Tomography Improves Pulmonary Nodule Detection. American Journal of Respiratory and Critical Care Medicine, 2017, 195, 261-262.	5.6	6
44	Effect of Bayesian-penalized likelihood reconstruction on [13N]-NH3 rest perfusion quantification. Journal of Nuclear Cardiology, 2017, 24, 282-290.	2.1	14
45	Optimization of Image Reconstruction for <sup>90</sup> Y Selective Internal Radiotherapy on a Lutetium Yttrium Orthosilicate PET/CT System Using a Bayesian Penalized Likelihood Reconstruction Algorithm. Journal of Nuclear Medicine, 2017, 58, 658-664.	5.0	29
46	18F-FDG PET/CT assessment of histopathologically confirmed mediastinal lymph nodes in non-small cell lung cancer using a penalised likelihood reconstruction. European Radiology, 2016, 26, 4098-4106.	4.5	44
47	<sup>18</sup> F-Misonidazole PET-CT scan detection of occult bone metastasis. Thorax, 2016, 71, 97-97.	5.6	3
48	Novel penalised likelihood reconstruction of PET in the assessment of histologically verified small pulmonary nodules. European Radiology, 2016, 26, 576-584.	4.5	82
49	Five years of molecular radiotherapy growth in the UK. Nuclear Medicine Communications, 2015, 36, 761-765.	1.1	11
50	Time to demand dosimetry for molecular radiotherapy?. British Journal of Radiology, 2015, 88, 20140720.	2.2	18
51	Does a novel penalized likelihood reconstruction of 18F-FDG PET-CT improve signal-to-background in colorectal liver metastases?. European Journal of Radiology, 2015, 84, 1873-1878.	2.6	73
52	Phantom and Clinical Evaluation of the Bayesian Penalized Likelihood Reconstruction Algorithm Q.Clear on an LYSO PET/CT System. Journal of Nuclear Medicine, 2015, 56, 1447-1452.	5.0	178
53	Iodine-131 monitoring in sewage plant outflow. Journal of Radiological Protection, 2014, 34, 1-14.	1.1	14