

Daniel R McGowan

List of Publications by Year in descending order

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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	Phantom and Clinical Evaluation of the Bayesian Penalized Likelihood Reconstruction Algorithm Q.Clear on an LYSO PET/CT System. <i>Journal of Nuclear Medicine</i> , 2015, 56, 1447-1452.	5.0	178
2	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
3	Novel penalised likelihood reconstruction of PET in the assessment of histologically verified small pulmonary nodules. <i>European Radiology</i> , 2016, 26, 576-584.	4.5	82
4	Does a novel penalized likelihood reconstruction of 18F-FDG PET-CT improve signal-to-background in colorectal liver metastases?. <i>European Journal of Radiology</i> , 2015, 84, 1873-1878.	2.6	73
5	Dopaminergic imaging and clinical predictors for phenoconversion of REM sleep behaviour disorder. <i>Brain</i> , 2021, 144, 278-287.	7.6	68
6	18F-FDG PET/CT assessment of histopathologically confirmed mediastinal lymph nodes in non-small cell lung cancer using a penalised likelihood reconstruction. <i>European Radiology</i> , 2016, 26, 4098-4106.	4.5	44
7	Evaluation of data-driven respiratory gating waveforms for clinical PET imaging. <i>EJNMMI Research</i> , 2019, 9, 1.	2.5	42
8	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
9	Data-Driven Respiratory Gating Outperforms Device-Based Gating for Clinical ¹⁸ F-FDG PET/CT. <i>Journal of Nuclear Medicine</i> , 2020, 61, 1678-1683.	5.0	39
10	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
11	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
12	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
13	A multicentre and multi-national evaluation of the accuracy of quantitative Lu-177 SPECT/CT imaging performed within the MRTDosimetry project. <i>EJNMMI Physics</i> , 2021, 8, 55.	2.7	34
14	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
15	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
16	Optimization of Image Reconstruction for ⁹⁰ Y Selective Internal Radiotherapy on a Lutetium Yttrium Orthosilicate PET/CT System Using a Bayesian Penalized Likelihood Reconstruction Algorithm. <i>Journal of Nuclear Medicine</i> , 2017, 58, 658-664.	5.0	29
17	Bayesian penalised likelihood reconstruction (Q.Clear) of ¹⁸ 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
18	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

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19	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. American Journal of Roentgenology, 2018, 210, 153-157.	2.2	27
20	Apathy in rapid eye movement sleep behaviour disorder is associated with serotonin depletion in the dorsal raphe nucleus. Brain, 2018, 141, 2848-2854.	7.6	21
21	Optimising quantitative 90Y PET imaging: an investigation into the effects of scan length and Bayesian penalised likelihood reconstruction. EJNMMI Research, 2019, 9, 40.	2.5	20
22	Deep learning-based time-of-flight (ToF) image enhancement of non-ToF PET scans. European Journal of Nuclear Medicine and Molecular Imaging, 2022, 49, 3740-3749.	6.4	20
23	Time to demand dosimetry for molecular radiotherapy?. British Journal of Radiology, 2015, 88, 20140720.	2.2	18
24	¹⁸ 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
25	Iodine-131 monitoring in sewage plant outflow. Journal of Radiological Protection, 2014, 34, 1-14.	1.1	14
26	Effect of Bayesian-penalized likelihood reconstruction on [13N]-NH3 rest perfusion quantification. Journal of Nuclear Cardiology, 2017, 24, 282-290.	2.1	14
27	Phantom and clinical evaluation of the effect of full Monte Carlo collimator modelling in post-SIRT yttrium-90 Bremsstrahlung SPECT imaging. EJNMMI Research, 2018, 8, 7.	2.5	13
28	Advances in PET/CT Technology: An Update. Seminars in Nuclear Medicine, 2022, 52, 286-301.	4.6	12
29	Five years of molecular radiotherapy growth in the UK. Nuclear Medicine Communications, 2015, 36, 761-765.	1.1	11
30	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
31	Eighty per cent more patients in 10 years of UK molecular radiotherapy. Nuclear Medicine Communications, 2019, 40, 657-661.	1.1	10
32	Investigation of atovaquone-induced spatial changes in tumour hypoxia assessed by hypoxia PET/CT in non-small cell lung cancer patients. EJNMMI Research, 2021, 11, 130.	2.5	9
33	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
34	The Impact of Radiobiologically Informed Dose Prescription on the Clinical Benefit of ⁹⁰ Y SIRT in Colorectal Cancer Patients. Journal of Nuclear Medicine, 2020, 61, 1658-1664.	5.0	8
35	Multimodal PET/CT Tumour Segmentation and Prediction of Progression-Free Survival Using a Full-Scale UNet with Attention. Lecture Notes in Computer Science, 2022, , 189-201.	1.3	7
36	Software Respiratory Gating of Positron Emission Tomography-Computed Tomography Improves Pulmonary Nodule Detection. American Journal of Respiratory and Critical Care Medicine, 2017, 195, 261-262.	5.6	6

#	ARTICLE	IF	CITATIONS
37	The internal dosimetry user group position statement on molecular radiotherapy. British Journal of Radiology, 2021, 94, 20210547.	2.2	6
38	A comparison of four-sample slopeâ€“intercept and single-sample ⁵¹ Cr-EDTA glomerular filtration rate measurements. Nuclear Medicine Communications, 2018, 39, 465-468.	1.1	5
39	An investigation into the accuracy of using serum creatinine estimated glomerular filtration rate to predict measured glomerular filtration rate. Nuclear Medicine Communications, 2019, 40, 349-352.	1.1	5
40	4D-PET reconstruction using a spline-residue model with spatial and temporal roughness penalties. Physics in Medicine and Biology, 2018, 63, 095013.	3.0	4
41	Whole tumor kinetics analysis of ¹⁸ F-fluoromisonidazole dynamic PET scans of non-small cell lung cancer patients, and correlations with perfusion CT blood flow. EJNMMI Research, 2018, 8, 73.	2.5	4
42	Characterising ¹⁸ F-fluciclovine uptake in breast cancer through the use of dynamic PET/CT imaging. British Journal of Cancer, 2022, 126, 598-605.	6.4	4
43	¹⁸ F-Misonidazole PET-CT scan detection of occult bone metastasis. Thorax, 2016, 71, 97-97.	5.6	3
44	Embrace Progress. Journal of Nuclear Medicine, 2018, 59, 1169-1169.	5.0	3
45	A solution to PET brain motion artefact. Journal of Neurology, 2021, 268, 3476-3477.	3.6	3
46	Guidance on medical physics expert support for nuclear medicine. British Journal of Radiology, 2022, 95, .	2.2	3
47	Fast Groupwise 4D Deformable Image Registration for Irregular Breathing Motion Estimation. Lecture Notes in Computer Science, 2018, , 37-46.	1.3	2
48	Effects of Respiratory Motion on Y-90 PET Dosimetry for SIRT. Diagnostics, 2022, 12, 194.	2.6	2
49	4D-PET reconstruction of dynamic non-small cell lung cancer [¹⁸ F]-FMISO-PET data using adaptive-knot cubic B-splines. , 2017, , .		1
50	P1.13-31 Safety and Tumour Hypoxia Modifying Effect of Buparlisib with Radiotherapy in NSCLC: A Phase I Dose Escalation Study. Journal of Thoracic Oncology, 2018, 13, S594.	1.1	0
51	Reply to â€“The use of buparlisib as a radiosensitiser: What about toxicity?â€™. European Journal of Cancer, 2019, 119, 196-197.	2.8	0
52	Repurposing Atovaquone as a Tumor Hypoxia Modifier: A Window of Opportunity Study in Patients with Resectable Non-small Cell Lung Cancer. International Journal of Radiation Oncology Biology Physics, 2020, 108, S173.	0.8	0
53	Reply: Data-Driven Motion Correction in Clinical PET: A Joint Accomplishment of Creative Academia and Industry. Journal of Nuclear Medicine, 2021, 62, 435-435.	5.0	0