

# John J Sunderland

## List of Publications by Year in descending order

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72  
papers

2,584  
citations

331670

21  
h-index

197818

49  
g-index

73  
all docs

73  
docs citations

73  
times ranked

3662  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Path to Qualification of PET/MRI Scanners for Multicenter Brain Imaging Studies: Evaluation of MRI-Based Attenuation Correction Methods Using a Patient Phantom. <i>Journal of Nuclear Medicine</i> , 2022, 63, 615-621.	5.0	6
2	Nuclear Medicine and Artificial Intelligence: Best Practices for Algorithm Development. <i>Journal of Nuclear Medicine</i> , 2022, 63, 500-510.	5.0	43
3	Quantification of uptake in pelvis $^{18}$ F FLT PET-CT images using a 3D localization and segmentation CNN. <i>Medical Physics</i> , 2022, 49, 1585-1598.	3.0	6
4	Monte Carlo evaluation of hypothetical long axial field-of-view PET scanner using GE Discovery MI PET front-end architecture. <i>Medical Physics</i> , 2022, 49, 1139-1152.	3.0	7
5	Noise-Based Image Harmonization Significantly Increases Repeatability and Reproducibility of Radiomics Features in PET Images: A Phantom Study. <i>Tomography</i> , 2022, 8, 1113-1128.	1.8	7
6	Measurement of Mucociliary Transport: Novel Application of Positron Emission Tomography. , 2022, , .		2
7	Radiopharmaceutical Delivery for Theranostics: Pharmacokinetics and Pharmacodynamics. <i>Seminars in Radiation Oncology</i> , 2021, 31, 12-19.	2.2	3
8	Evaluation of attenuation correction in PET/MRI with synthetic lesion insertion. <i>Journal of Medical Imaging</i> , 2021, 8, 056001.	1.5	3
9	Mars Shot for Nuclear Medicine, Molecular Imaging, and Molecularly Targeted Radiopharmaceutical Therapy. <i>Journal of Nuclear Medicine</i> , 2021, 62, 6-14.	5.0	13
10	Harmonization of PET image reconstruction parameters in simultaneous PET/MRI. <i>EJNMMI Physics</i> , 2021, 8, 75.	2.7	2
11	An International Study of Factors Affecting Variability of Dosimetry Calculations, Part 1: Design and Early Results of the SNMMI Dosimetry Challenge. <i>Journal of Nuclear Medicine</i> , 2021, 62, 36S-47S.	5.0	18
12	The QIBA Profile for FDG PET/CT as an Imaging Biomarker Measuring Response to Cancer Therapy. <i>Radiology</i> , 2020, 294, 647-657.	7.3	49
13	Quantitative Testâ€Retest Measurement of $^{68}$ Ga-PSMA-HBED-CC in Tumor and Normal Tissue. <i>Journal of Nuclear Medicine</i> , 2020, 61, 1145-1152.	5.0	23
14	A 3D deep convolutional neural network approach for the automated measurement of cerebellum tracer uptake in FDG PET-CT scans. <i>Medical Physics</i> , 2020, 47, 1058-1066.	3.0	3
15	Absorbed dose distributions from beta-decaying radionuclides: Experimental validation of Monte Carlo tools for radiopharmaceutical dosimetry. <i>Medical Physics</i> , 2020, 47, 5779-5790.	3.0	5
16	Prospective Analysis of the Impact of $^{68}$ Ga-DOTATOC Positron Emission Tomographyâ€Computerized Axial Tomography on Management of Pancreatic and Small Bowel Neuroendocrine Tumors. <i>Pancreas</i> , 2020, 49, 1033-1036.	1.1	6
17	The Academic NDA: Justification, Process, and Lessons Learned. <i>Journal of Nuclear Medicine</i> , 2020, 61, 480-487.	5.0	8
18	Bone material analogues for PET/MRI phantoms. <i>Medical Physics</i> , 2020, 47, 2161-2170.	3.0	8

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19	The Impact of Tissue Type and Density on Dose Point Kernels for Patient-Specific Voxel-Wise Dosimetry: A Monte Carlo Investigation. <i>Radiation Research</i> , 2020, 193, 531.	1.5	8
20	Multisite Technical and Clinical Performance Evaluation of Quantitative Imaging Biomarkers from 3D FDG PET Segmentations of Head and Neck Cancer Images. <i>Tomography</i> , 2020, 6, 65-76.	1.8	4
21	FLT PET Radiomics for Response Prediction to Chemoradiation Therapy in Head and Neck Squamous Cell Cancer. <i>Tomography</i> , 2019, 5, 161-169.	1.8	28
22	FDG PET based prediction of response in head and neck cancer treatment: Assessment of new quantitative imaging features. <i>PLoS ONE</i> , 2019, 14, e0215465.	2.5	20
23	Bias in PET Images of Solid Phantoms Due to CT-Based Attenuation Correction. <i>Tomography</i> , 2019, 5, 154-160.	1.8	3
24	<sup>90</sup> Y-DOTATOC Dosimetry-Based Personalized Peptide Receptor Radionuclide Therapy. <i>Journal of Nuclear Medicine</i> , 2018, 59, 1692-1698.	5.0	36
25	Pharmacoinaging of Blood-Brain Barrier Permeable (FDG) and Impermeable (FLT) Substrates After Intranasal (IN) Administration. <i>AAPS Journal</i> , 2018, 20, 15.	4.4	3
26	Automated model-based quantitative analysis of phantoms with spherical inserts in FDG PET scans. <i>Medical Physics</i> , 2018, 45, 258-276.	3.0	12
27	Demonstration of Nucleoside Transporter Activity in the Nose-to-Brain Distribution of [18F]Fluorothymidine Using PET Imaging. <i>AAPS Journal</i> , 2018, 20, 16.	4.4	2
28	About Measurement of PET Spatial Resolution. , 2018, , .		0
29	Measuring PET Spatial Resolution Using a Cylinder Phantom Positioned at an Oblique Angle. <i>Journal of Nuclear Medicine</i> , 2018, 59, 1768-1775.	5.0	16
30	Measuring temporal stability of positron emission tomography standardized uptake value bias using long-lived sources in a multicenter network. <i>Journal of Medical Imaging</i> , 2018, 5, 1.	1.5	7
31	<sup>68</sup> Ga-DOTATOC Imaging of Neuroendocrine Tumors: A Systematic Review and Metaanalysis. <i>Journal of Nuclear Medicine</i> , 2017, 58, 1452-1458.	5.0	100
32	<sup>68</sup> Ga-PSMA PET/CT: Joint EANM and SNMMI procedure guideline for prostate cancer imaging: version 1.0. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2017, 44, 1014-1024.	6.4	589
33	Localization of Unknown Primary Site with <sup>68</sup> Ga-DOTATOC PET/CT in Patients with Metastatic Neuroendocrine Tumor. <i>Journal of Nuclear Medicine</i> , 2017, 58, 1054-1057.	5.0	29
34	Multi-site quality and variability analysis of 3D FDG PET segmentations based on phantom and clinical image data. <i>Medical Physics</i> , 2017, 44, 479-496.	3.0	22
35	An algorithm for automated ROI definition in water or epoxy-filled NEMA NU-2 image quality phantoms. <i>Journal of Applied Clinical Medical Physics</i> , 2016, 17, 440-456.	1.9	1
36	Semiautomated segmentation of head and neck cancers in <sup>18</sup> F-FDG PET scans: A just-enough interaction approach. <i>Medical Physics</i> , 2016, 43, 2948-2964.	3.0	41

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37	Brown Adipose Reporting Criteria in Imaging Studies (BARCIST 1.0): Recommendations for Standardized FDG-PET/CT Experiments in Humans. <i>Cell Metabolism</i> , 2016, 24, 210-222.	16.2	233
38	A novel generic organ-PET for small animal organs and tissues. , 2016, , .		0
39	Using [18F]Fluorothymidine Imaged With Positron Emission Tomography to Quantify and Reduce Hematologic Toxicity Due to Chemoradiation Therapy for Pelvic Cancer Patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 96, 228-239.	0.8	28
40	Fluorine-18-Labeled Thymidine Positron Emission Tomography (FLT-PET) as an Index of Cell Proliferation after Pharmacological Ascorbate-Based Therapy. <i>Radiation Research</i> , 2016, 185, 31-38.	1.5	9
41	Diagnostic Reference Levels of CT Radiation Dose in Whole-Body PET/CT. <i>Journal of Nuclear Medicine</i> , 2016, 57, 238-241.	5.0	25
42	Preliminary Investigation of Cerebral Blood Flow and Amyloid Burden in Veterans With and Without Combat-Related Traumatic Brain Injury. <i>Journal of Neuropsychiatry and Clinical Neurosciences</i> , 2016, 28, 89-96.	1.8	18
43	Computational Challenges and Collaborative Projects in the NCI Quantitative Imaging Network. <i>Tomography</i> , 2016, 2, 242-249.	1.8	15
44	Summary of the UPICT Protocol for <sup>18</sup> F-FDG PET/CT Imaging in Oncology Clinical Trials. <i>Journal of Nuclear Medicine</i> , 2015, 56, 955-961.	5.0	93
45	Quantitative PET/CT Scanner Performance Characterization Based Upon the Society of Nuclear Medicine and Molecular Imaging Clinical Trials Network Oncology Clinical Simulator Phantom. <i>Journal of Nuclear Medicine</i> , 2015, 56, 145-152.	5.0	116
46	Dependency of cardiac rubidium-82 imaging quantitative measures on age, gender, vascular territory, and software in a cardiovascular normal population. <i>Journal of Nuclear Cardiology</i> , 2015, 22, 72-84.	2.1	28
47	Locally Targeted Delivery of a Micron-Size Radiation Therapy Source Using Temperature-Sensitive Hydrogel. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 88, 1142-1147.	0.8	11
48	Evaluation of CT-based lean-body SUV. <i>Medical Physics</i> , 2013, 40, 092504.	3.0	12
49	<sup>18</sup> F-fluorodeoxythymidine micro-positron emission tomography versus <sup>18</sup> F-fluorodeoxyglucose micro-positron emission tomography for in vivo minimal residual disease imaging. <i>Laryngoscope</i> , 2013, 123, 107-111.	2.0	1
50	Repeatability of Gallium-68 DOTATOC Positron Emission Tomographic Imaging in Neuroendocrine Tumors. <i>Pancreas</i> , 2013, 42, 937-943.	1.1	23
51	Profiling Bortezomib Resistance Identifies Secondary Therapies in a Mouse Myeloma Model. <i>Molecular Cancer Therapeutics</i> , 2013, 12, 1140-1150.	4.1	68
52	Automated measurement of uptake in cerebellum, liver, and aortic arch in full-body FDG PET/CT scans. <i>Medical Physics</i> , 2012, 39, 3112-3123.	3.0	16
53	GATE Simulations of Small Animal SPECT for Determination of Scatter Fraction as a Function of Object Size. <i>IEEE Transactions on Nuclear Science</i> , 2012, 59, 1887-1891.	2.0	8
54	Low Expression of CXCR4 in Bortezomib-Resistant Multiple Myeloma Correlates with Extramedullary Disease in a Murine Mouse Model. <i>Blood</i> , 2012, 120, 442-442.	1.4	0

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55	Features to Consider When Selecting New PET/CT Systems. <i>Journal of the American College of Radiology</i> , 2011, 8, 211-213.	1.8	0
56	Effect of Insulin and Dexamethasone on Fetal Assimilation of Maternal Glucose. <i>Endocrinology</i> , 2011, 152, 255-262.	2.8	14
57	Localized Fetomaternal Hyperglycemia: Spatial and Kinetic Definition by Positron Emission Tomography. <i>PLoS ONE</i> , 2010, 5, e12027.	2.5	9
58	Stability of $^3\text{H}$ -Deoxy- $^3\text{H}$ -[ $^{18}\text{F}$ ]Fluorothymidine Standardized Uptake Values in Head and Neck Cancer Over Time. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2010, 25, 361-363.	1.0	3
59	Investigation of the pharmacokinetics of $^3\text{H}$ -deoxy- $^3\text{H}$ -[ $^{18}\text{F}$ ]fluorothymidine uptake in the bone marrow before and early after initiation of chemoradiation therapy in head and neck cancer. <i>Nuclear Medicine and Biology</i> , 2010, 37, 433-438.	0.6	19
60	PET imaging in rats to discern temporal onset differences between 6-hydroxydopamine and tau gene vector neurodegeneration models. <i>Brain Research</i> , 2009, 1259, 113-122.	2.2	6
61	Kinetic Analysis of $^3\text{H}$ -Deoxy- $^3\text{H}$ - $^{18}\text{F}$ -Fluorothymidine ( $^{18}\text{F}$ -FLT) in Head and Neck Cancer Patients Before and Early After Initiation of Chemoradiation Therapy. <i>Journal of Nuclear Medicine</i> , 2009, 50, 1028-1035.	5.0	77
62	Reduced Presynaptic Dopamine Activity in Fibromyalgia Syndrome Demonstrated With Positron Emission Tomography: A Pilot Study. <i>Journal of Pain</i> , 2007, 8, 51-58.	1.4	218
63	Synthesis and Biological Evaluation of [ $^{11}\text{C}$ ]MK-912 as an $\alpha_2$ -Adrenergic Receptor Radioligand for PET Studies. <i>Nuclear Medicine and Biology</i> , 1998, 25, 127-133.	0.6	24
64	Mediastinal lymph node staging of non-small-cell lung cancer: A prospective comparison of computed tomography and positron emission tomography. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 1996, 111, 642-648.	0.8	169
65	Decision logic for retreatment of asymptomatic lung cancer recurrence based on positron emission tomography findings. <i>International Journal of Radiation Oncology Biology Physics</i> , 1995, 32, 1495-1512.	0.8	100
66	Detection of Scalene Lymph Node Metastases From Lung Cancer. <i>Chest</i> , 1995, 107, 1174-1176.	0.8	17
67	Fluorine-18 and carbon-11 labeled amphetamine analogs—Synthesis, distribution, binding characteristics in mice and rats and a PET study in monkey. <i>Nuclear Medicine and Biology</i> , 1993, 20, 973-981.	0.6	19
68	Considerations in setting up a positron emission tomography center. <i>Seminars in Nuclear Medicine</i> , 1992, 22, 182-188.	4.6	7
69	analogues, potential PET agents for presynaptic dopamine terminals: Synthesis and spectroscopic characterization. <i>International Journal of Radiation Applications and Instrumentation Part A, Applied Radiation and Isotopes</i> , 1992, 43, 969-977.	0.5	16
70	Adenosine in myocardial perfusion imaging using positron emission tomography. <i>American Heart Journal</i> , 1991, 122, 293-301.	2.7	21
71	Synthesis of radiofluorinated analogs of m-tyrosine as potential l-dopa tracers via direct reaction with acetylhyopfluorite. <i>International Journal of Radiation Applications and Instrumentation Part A, Applied Radiation and Isotopes</i> , 1990, 41, 433-437.	0.5	21
72	Noninvasive Testing of Cerebral Perfusion Reserve Prior to Coronary Artery Bypass Graft Surgery. <i>Angiology</i> , 1988, 39, 421-428.	1.8	6