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	68Ga-PSMA PET/CT: Joint EANM and SNMMI procedure guideline for prostate cancer imaging: version 1.0. European Journal of Nuclear Medicine and Molecular Imaging, 2017, 44, 1014-1024.	6.4	589
2	Brown Adipose Reporting Criteria in Imaging STudies (BARCIST 1.0): Recommendations for Standardized FDG-PET/CT Experiments in Humans. Cell Metabolism, 2016, 24, 210-222.	16.2	233
3	Reduced Presynaptic Dopamine Activity in Fibromyalgia Syndrome Demonstrated With Positron Emission Tomography: A Pilot Study. Journal of Pain, 2007, 8, 51-58.	1.4	218
4	Mediastinal lymph node staging of non-small-cell lung cancer: A prospective comparison of computed tomography and positron emission tomography. Journal of Thoracic and Cardiovascular Surgery, 1996, 111, 642-648.	0.8	169
5	Quantitative PET/CT Scanner Performance Characterization Based Upon the Society of Nuclear Medicine and Molecular Imaging Clinical Trials Network Oncology Clinical Simulator Phantom. Journal of Nuclear Medicine, 2015, 56, 145-152.	5.0	116
6	Decision logic for retreatment of asymptomatic lung cancer recurrence based on positron emission tomography findings. International Journal of Radiation Oncology Biology Physics, 1995, 32, 1495-1512.	0.8	100
7	⁶⁸Ga-DOTATOC Imaging of Neuroendocrine Tumors: A Systematic Review and Metaanalysis. Journal of Nuclear Medicine, 2017, 58, 1452-1458.	5.0	100
8	Summary of the UPICT Protocol for ¹⁸F-FDG PET/CT Imaging in Oncology Clinical Trials. Journal of Nuclear Medicine, 2015, 56, 955-961.	5.0	93
9	Kinetic Analysis of 3â€²-Deoxy-3â€²-18F-Fluorothymidine (18F-FLT) in Head and Neck Cancer Patients Before and Early After Initiation of Chemoradiation Therapy. Journal of Nuclear Medicine, 2009, 50, 1028-1035.	5.0	77
10	Profiling Bortezomib Resistance Identifies Secondary Therapies in a Mouse Myeloma Model. Molecular Cancer Therapeutics, 2013, 12, 1140-1150.	4.1	68
11	The QIBA Profile for FDG PET/CT as an Imaging Biomarker Measuring Response to Cancer Therapy. Radiology, 2020, 294, 647-657.	7.3	49
12	Nuclear Medicine and Artificial Intelligence: Best Practices for Algorithm Development. Journal of Nuclear Medicine, 2022, 63, 500-510.	5.0	43
13	Semiautomated segmentation of head and neck cancers in 18Fâ€FDG PET scans: A justâ€enoughâ€interaction approach. Medical Physics, 2016, 43, 2948-2964.	3.0	41
14	⁹⁰Y-DOTATOC Dosimetryâ€“Based Personalized Peptide Receptor Radionuclide Therapy. Journal of Nuclear Medicine, 2018, 59, 1692-1698.	5.0	36
15	Localization of Unknown Primary Site with ⁶⁸Ga-DOTATOC PET/CT in Patients with Metastatic Neuroendocrine Tumor. Journal of Nuclear Medicine, 2017, 58, 1054-1057.	5.0	29
16	Dependency of cardiac rubidium-82 imaging quantitative measures on age, gender, vascular territory, and software in a cardiovascular normal population. Journal of Nuclear Cardiology, 2015, 22, 72-84.	2.1	28
17	Using [18F]Fluorothymidine Imaged With Positron Emission Tomography to Quantify and Reduce Hematologic Toxicity Due to Chemoradiation Therapy for Pelvic Cancer Patients. International Journal of Radiation Oncology Biology Physics, 2016, 96, 228-239.	0.8	28
18	FLT PET Radiomics for Response Prediction to Chemoradiation Therapy in Head and Neck Squamous Cell Cancer. Tomography, 2019, 5, 161-169.	1.8	28

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19	Diagnostic Reference Levels of CT Radiation Dose in Whole-Body PET/CT. Journal of Nuclear Medicine, 2016, 57, 238-241.	5.0	25
20	Synthesis and Biological Evaluation of [11C]MK-912 as an Î±2-Adrenergic Receptor Radioligand for PET Studies. Nuclear Medicine and Biology, 1998, 25, 127-133.	0.6	24
21	Repeatability of Gallium-68 DOTATOC Positron Emission Tomographic Imaging in Neuroendocrine Tumors. Pancreas, 2013, 42, 937-943.	1.1	23
22	Quantitative Testâ€“Retest Measurement of ⁶⁸Ga-PSMA-HBED-CC in Tumor and Normal Tissue. Journal of Nuclear Medicine, 2020, 61, 1145-1152.	5.0	23
23	Multiâ€site quality and variability analysis of 3D FDG PET segmentations based on phantom and clinical image data. Medical Physics, 2017, 44, 479-496.	3.0	22
24	Synthesis of radiofluorinated analogs of m-tyrosine as potential l-dopa tracers via direct reaction with acetylhypofluorite. International Journal of Radiation Applications and Instrumentation Part A, Applied Radiation and Isotopes, 1990, 41, 433-437.	0.5	21
25	Adenosine in myocardial perfusion imaging using positron emission tomography. American Heart Journal, 1991, 122, 293-301.	2.7	21
26	FDG PET based prediction of response in head and neck cancer treatment: Assessment of new quantitative imaging features. PLoS ONE, 2019, 14, e0215465.	2.5	20
27	Fluorine-18 and carbon-11 labeled amphetamine analogsâ€”Synthesis, distribution, binding characteristics in mice and rats and a PET study in monkey. Nuclear Medicine and Biology, 1993, 20, 973-981.	0.6	19
28	Investigation of the pharmacokinetics of 3â€²-deoxy-3â€²-[18F]fluorothymidine uptake in the bone marrow before and early after initiation of chemoradiation therapy in head and neck cancer. Nuclear Medicine and Biology, 2010, 37, 433-438.	0.6	19
29	Preliminary Investigation of Cerebral Blood Flow and Amyloid Burden in Veterans With and Without Combat-Related Traumatic Brain Injury. Journal of Neuropsychiatry and Clinical Neurosciences, 2016, 28, 89-96.	1.8	18
30	An International Study of Factors Affecting Variability of Dosimetry Calculations, Part 1: Design and Early Results of the SNMMI Dosimetry Challenge. Journal of Nuclear Medicine, 2021, 62, 36S-47S.	5.0	18
31	Detection of Scalene Lymph Node Metastases From Lung Cancer. Chest, 1995, 107, 1174-1176.	0.8	17
32	analogs, potential PET agents for presynaptic dopamine terminals: Synthesis and spectroscopic characterization. International Journal of Radiation Applications and Instrumentation Part A, Applied Radiation and Isotopes, 1992, 43, 969-977.	0.5	16
33	Automated measurement of uptake in cerebellum, liver, and aortic arch in fullâ€body FDG PET/CT scans. Medical Physics, 2012, 39, 3112-3123.	3.0	16
34	Measuring PET Spatial Resolution Using a Cylinder Phantom Positioned at an Oblique Angle. Journal of Nuclear Medicine, 2018, 59, 1768-1775.	5.0	16
35	Computational Challenges and Collaborative Projects in the NCI Quantitative Imaging Network. Tomography, 2016, 2, 242-249.	1.8	15
36	Effect of Insulin and Dexamethasone on Fetal Assimilation of Maternal Glucose. Endocrinology, 2011, 152, 255-262.	2.8	14

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37	Mars Shot for Nuclear Medicine, Molecular Imaging, and Molecularly Targeted Radiopharmaceutical Therapy. Journal of Nuclear Medicine, 2021, 62, 6-14.	5.0	13
38	Evaluation of CT-based lean-body SUV. Medical Physics, 2013, 40, 092504.	3.0	12
39	Automated modelâ€based quantitative analysis of phantoms with spherical inserts in FDG PET scans. Medical Physics, 2018, 45, 258-276.	3.0	12
40	Locally Targeted Delivery of a Micron-Size Radiation Therapy Source Using Temperature-Sensitive Hydrogel. International Journal of Radiation Oncology Biology Physics, 2014, 88, 1142-1147.	0.8	11
41	Localized Fetomaternal Hyperglycemia: Spatial and Kinetic Definition by Positron Emission Tomography. PLoS ONE, 2010, 5, e12027.	2.5	9
42	Fluorine-18-Labeled Thymidine Positron Emission Tomography (FLT-PET) as an Index of Cell Proliferation after Pharmacological Ascorbate-Based Therapy. Radiation Research, 2016, 185, 31-38.	1.5	9
43	GATE Simulations of Small Animal SPECT for Determination of Scatter Fraction as a Function of Object Size. IEEE Transactions on Nuclear Science, 2012, 59, 1887-1891.	2.0	8
44	The Academic NDA: Justification, Process, and Lessons Learned. Journal of Nuclear Medicine, 2020, 61, 480-487.	5.0	8
45	Bone material analogues for PET/MRI phantoms. Medical Physics, 2020, 47, 2161-2170.	3.0	8
46	The Impact of Tissue Type and Density on Dose Point Kernels for Patient-Specific Voxel-Wise Dosimetry: A Monte Carlo Investigation. Radiation Research, 2020, 193, 531.	1.5	8
47	Considerations in setting up a positron emission tomography center. Seminars in Nuclear Medicine, 1992, 22, 182-188.	4.6	7
48	Measuring temporal stability of positron emission tomography standardized uptake value bias using long-lived sources in a multicenter network. Journal of Medical Imaging, 2018, 5, 1.	1.5	7
49	Monte Carlo evaluation of hypothetical long axial fieldâ€ofâ€view PET scanner using GE Discovery MI PET frontâ€end architecture. Medical Physics, 2022, 49, 1139-1152.	3.0	7
50	Noise-Based Image Harmonization Significantly Increases Repeatability and Reproducibility of Radiomics Features in PET Images: A Phantom Study. Tomography, 2022, 8, 1113-1128.	1.8	7
51	Noninvasvie Testing of Cerebral Perfusion Reserve Prior to Coronary Artery Bypass Graft Surgery. Angiology, 1988, 39, 421-428.	1.8	6
52	PET imaging in rats to discern temporal onset differences between 6-hydroxydopamine and tau gene vector neurodegeneration models. Brain Research, 2009, 1259, 113-122.	2.2	6
53	Prospective Analysis of the Impact of 68Ga-DOTATOC Positron Emission Tomographyâ€“Computerized Axial Tomography on Management of Pancreatic and Small Bowel Neuroendocrine Tumors. Pancreas, 2020, 49, 1033-1036.	1.1	6
54	A Path to Qualification of PET/MRI Scanners for Multicenter Brain Imaging Studies: Evaluation of MRI-Based Attenuation Correction Methods Using a Patient Phantom. Journal of Nuclear Medicine, 2022, 63, 615-621.	5.0	6

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55	Quantification of uptake in pelvis Fâ€18 FLT PETâ€CT images using a 3D localization and segmentation CNN. Medical Physics, 2022, 49, 1585-1598.	3.0	6
56	Absorbed dose distributions from betaâ€decaying radionuclides: Experimental validation of Monte Carlo tools for radiopharmaceutical dosimetry. Medical Physics, 2020, 47, 5779-5790.	3.0	5
57	Multisite Technical and Clinical Performance Evaluation of Quantitative Imaging Biomarkers from 3D FDG PET Segmentations of Head and Neck Cancer Images. Tomography, 2020, 6, 65-76.	1.8	4
58	Stability of 3â€²-Deoxy-3â€²-[¹⁸F]Fluorothymidine Standardized Uptake Values in Head and Neck Cancer Over Time. Cancer Biotherapy and Radiopharmaceuticals, 2010, 25, 361-363.	1.0	3
59	Pharmacoimaging of Blood-Brain Barrier Permeable (FDG) and Impermeable (FLT) Substrates After Intranasal (IN) Administration. AAPS Journal, 2018, 20, 15.	4.4	3
60	A 3D deep convolutional neural network approach for the automated measurement of cerebellum tracer uptake in FDG PETâ€CT scans. Medical Physics, 2020, 47, 1058-1066.	3.0	3
61	Radiopharmaceutical Delivery for Theranostics: Pharmacokinetics and Pharmacodynamics. Seminars in Radiation Oncology, 2021, 31, 12-19.	2.2	3
62	Evaluation of attenuation correction in PET/MRI with synthetic lesion insertion. Journal of Medical Imaging, 2021, 8, 056001.	1.5	3
63	Bias in PET Images of Solid Phantoms Due to CT-Based Attenuation Correction. Tomography, 2019, 5, 154-160.	1.8	3
64	Demonstration of Nucleoside Transporter Activity in the Nose-to-Brain Distribution of [18F]Fluorothymidine Using PET Imaging. AAPS Journal, 2018, 20, 16.	4.4	2
65	Harmonization of PET image reconstruction parameters in simultaneous PET/MRI. EJNMMI Physics, 2021, 8, 75.	2.7	2
66	Measurement of Mucociliary Transport: Novel Application of Positron Emission Tomography. , 2022, , .		2
67	¹⁸Fâ€fluorodeoxythymidine microâ€“positronâ€emission tomography versus ¹⁸Fâ€fluorodeoxyglucose microâ€“positronâ€emission tomography for in vivo minimal residual disease imaging. Laryngoscope, 2013, 123, 107-111.	2.0	1
68	An algorithm for automated ROI definition in water or epoxyâ€filled NEMA NUâ€2 image quality phantoms. Journal of Applied Clinical Medical Physics, 2016, 17, 440-456.	1.9	1
69	Features to Consider When Selecting New PET/CT Systems. Journal of the American College of Radiology, 2011, 8, 211-213.	1.8	0
70	A novel generic organ-PET for small animal organs and tissues. , 2016, , .		0
71	About Measurement of PET Spatial Resolution. , 2018, , .		0
72	Low Expression of CXCR4 in Bortezomib-Resistant Multiple Myeloma Correlates with Extramedullary Disease in a Murine Mouse Model. Blood, 2012, 120, 442-442.	1.4	0