Nathaniel M Alpert

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	PET imaging of mitochondrial function in acute doxorubicin-induced cardiotoxicity: a proof-of-principle study. Scientific Reports, 2022, 12, 6122.	3.3	7
2	In vivo quantitative mapping of human mitochondrial cardiac membrane potential: a feasibility study. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 48, 414-420.	6.4	16
3	Quantification of Myocardial Mitochondrial Membrane Potential Using PET. Current Cardiology Reports, 2021, 23, 70.	2.9	9
4	PET imaging of neurotransmission using direct parametric reconstruction. Neurolmage, 2020, 221, 117154.	4.2	1
5	In-vivo Imaging of Mitochondrial Depolarization of Myocardium With Positron Emission Tomography and a Proton Gradient Uncoupler. Frontiers in Physiology, 2020, 11, 491.	2.8	5
6	Preclinical Validation of a Single-Scan Rest/Stress Imaging Technique for ¹³ N-Ammonia Positron Emission Tomography Cardiac Perfusion Studies. Circulation: Cardiovascular Imaging, 2020, 13, e009407.	2.6	5
7	In vivo quantification of mitochondrial membrane potential. Nature, 2020, 583, E17-E18.	27.8	8
8	Body motion detection and correction in cardiac PET: Phantom and human studies. Medical Physics, 2019, 46, 4898-4906.	3.0	14
9	Frontostriatal and Dopamine Markers of Individual Differences in Reinforcement Learning: A Multi-modal Investigation. Cerebral Cortex, 2018, 28, 4281-4290.	2.9	38
10	Awake animal functional imaging to investigate the effects of general anesthesia on brain. , 2018, , .		1
11	Quantitative in vivo mapping of myocardial mitochondrial membrane potential. PLoS ONE, 2018, 13, e0190968.	2.5	30
12	Rapid computation of single <scp>PET</scp> scan restâ€stress myocardial blood flow parametric images by table look up. Medical Physics, 2017, 44, 4643-4651.	3.0	1
13	Single-scan rest/stress imaging: validation in a porcine model with 18F-Flurpiridaz. European Journal of Nuclear Medicine and Molecular Imaging, 2017, 44, 1538-1546.	6.4	13
14	Mapping 15O Production Rate for Proton Therapy Verification. International Journal of Radiation Oncology Biology Physics, 2015, 92, 453-459.	0.8	23
15	Bias Atlases for Segmentation-Based PET Attenuation Correction Using PET-CT and MR. IEEE Transactions on Nuclear Science, 2013, 60, 3373-3382.	2.0	42
16	A receptor-based model for dopamine-induced fMRI signal. NeuroImage, 2013, 75, 46-57.	4.2	57
17	Neurovascular coupling to D2/D3 dopamine receptor occupancy using simultaneous PET/functional MRI. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11169-11174.	7.1	112
18	Singleâ€scan rest/stress imaging ¹⁸ Fâ€labeled flow tracers. Medical Physics, 2012, 39, 6609-6620	3.0	14

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19	Parametric imaging with Bayesian priors: A validation study with 11C-Altropane PET. NeuroImage, 2012, 61, 131-138.	4.2	7
20	A general method of Bayesian estimation for parametric imaging of the brain. Neurolmage, 2009, 45, 1183-1189.	4.2	15
21	Dopamine release during human emotional processing. NeuroImage, 2009, 47, 2041-2045.	4.2	66
22	Explicit motor memory activates the striatal dopamine system. NeuroReport, 2008, 19, 409-412.	1.2	33
23	Striatal dopamine release in sequential learning. NeuroImage, 2007, 38, 549-556.	4.2	118
24	Optimization of dynamic measurement of receptor kinetics by wavelet denoising. NeuroImage, 2006, 30, 444-451.	4.2	30
25	Optimization of wavelet processing of dynamic PET data. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S639-S639.	4.3	Ο
26	Brain rCBF and performance in visual imagery tasks: Common and distinct processes. European Journal of Cognitive Psychology, 2004, 16, 696-716.	1.3	21
27	A novel method for noninvasive detection of neuromodulatory changes in specific neurotransmitter systems. NeuroImage, 2003, 19, 1049-1060.	4.2	131
28	Coregistration of Head CT Comparison Studies. Academic Radiology, 2003, 10, 242-248.	2.5	17
29	Striatal dopamine release during unrewarded motor task in human volunteers. NeuroReport, 2003, 14, 1421-1424.	1.2	45
30	Mapping of local renal blood flow with PET and H(2)(15)O. Journal of Nuclear Medicine, 2002, 43, 470-5.	5.0	36
31	Performance Evaluation of an Automated System for Registration and Postprocessing of CT Scans. Journal of Computer Assisted Tomography, 2001, 25, 747-752.	0.9	15
32	[11C,127I] Altropane: A highly selective ligand for PET imaging of dopamine transporter sites. Synapse, 2001, 39, 332-342.	1.2	57
33	Auditory Priming within and across Modalities: Evidence from Positron Emission Tomography. Journal of Cognitive Neuroscience, 1999, 11, 337-348.	2.3	98
34	Improved Signal-to-Noise Ratio in Parametric Images by Cluster Analysis. NeuroImage, 1999, 9, 554-561.	4.2	62
35	A Method for Assessing the Accuracy of Intersubject Registration of the Human Brain Using Anatomic Landmarks. NeuroImage, 1999, 9, 250-268.	4.2	94
36	Factors Influencing Isotope Equilibrium Rates Affect 11 C PET Analysis. Circulation, 1999, 99, .	1.6	0

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37	Impaired recruitment of the hippocampus during conscious recollection in schizophrenia. Nature Neuroscience, 1998, 1, 318-323.	14.8	529
38	Mental rotation of objects versus hands: Neural mechanisms revealed by positron emission tomography. Psychophysiology, 1998, 35, 151-161.	2.4	543
39	Rapid detection of Parkinson's disease by SPECT with altropane: A selective ligand for dopamine transporters. , 1998, 29, 128-141.		104
40	Effects of Syntactic Structure and Propositional Number on Patterns of Regional Cerebral Blood Flow. Journal of Cognitive Neuroscience, 1998, 10, 541-552.	2.3	433
41	Dehydrogenase regulation of metabolite oxidation and efflux from mitochondria in intact hearts. American Journal of Physiology - Heart and Circulatory Physiology, 1998, 274, H467-H476.	3.2	33
42	Mental rotation of objects versus hands: Neural mechanisms revealed by positron emission tomography. Psychophysiology, 1998, 35, 151-161.	2.4	75
43	Neural systems that encode categorical versus coordinate spatial relations: PET investigations. Cognitive, Affective and Behavioral Neuroscience, 1998, 26, 333-347.	1.3	78
44	A Positron Emission Tomographic Study of Symptom Provocation in PTSD. Annals of the New York Academy of Sciences, 1997, 821, 521-523.	3.8	102
45	Functional imaging of human right hemispheric activation for exploratory movements. Annals of Neurology, 1996, 39, 174-179.	5.3	147
46	Quantification of dopamine transporter density in monkeys by dynamic PET imaging of multiple injections of 11C-CFT. , 1996, 24, 262-272.		33
47	Comparison of Two Compartmental Models for Describing Receptor Ligand Kinetics and Receptor Availability in Multiple Injection PET Studies. Journal of Cerebral Blood Flow and Metabolism, 1996, 16, 841-853.	4.3	27
48	Individual Differences in Cerebral Blood Flow in Area 17 Predict the Time to Evaluate Visualized Letters. Journal of Cognitive Neuroscience, 1996, 8, 78-82.	2.3	118
49	Factors Influencing Regional Myocardial Contractile Response to Inotropic Stimulation. Circulation, 1996, 94, 643-650.	1.6	33
50	In vivo imaging of neuromodulatory synaptic transmission using PET: A review of relevant neurophysiology. Human Brain Mapping, 1995, 3, 24-34.	3.6	50
51	In vivo imaging of neuromodulation using positron emission tomography: Optimal ligand characteristics and task length for detection of activation. Human Brain Mapping, 1995, 3, 35-55.	3.6	58
52	Identifying objects at different levels of hierarchy: A positron emission tomography study. Human Brain Mapping, 1995, 3, 107-132.	3.6	63
53	A PET investigation of implicit and explicit sequence learning. Human Brain Mapping, 1995, 3, 271-286.	3.6	215
54	Topographical representations of mental images in primary visual cortex. Nature, 1995, 378, 496-498.	27.8	798

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55	Visual Mental Imagery Activates Topographically Organized Visual Cortex: PET Investigations. Journal of Cognitive Neuroscience, 1993, 5, 263-287.	2.3	642
56	Regional perfusion, oxygen metabolism, blood volume and immunoglobulin G accumulation at focal sites of infection in rabbits. European Journal of Nuclear Medicine and Molecular Imaging, 1992, 19, 166-72.	2.1	7
57	The 15O Steady-State Method: Correction for Variation in Arterial Concentration. Journal of Cerebral Blood Flow and Metabolism, 1988, 8, 681-690.	4.3	31
58	Measurement of both left ventricular function and regional myocardial perfusion with 133Xe in dogs. European Journal of Nuclear Medicine and Molecular Imaging, 1987, 12, 533-541.	2.1	2
59	Comparison of three semiautomatic methods for determination of left ventricular ejection fraction from gated cardiac blood pool images. European Journal of Nuclear Medicine and Molecular Imaging, 1985, 10-10, 494-9.	2.1	3
60	Positron imaging in ischemic stroke disease. Annals of Neurology, 1984, 15, 126-130.	5.3	30
61	Positron Imaging Instrumentation. IEEE Transactions on Nuclear Science, 1977, 24, 914-916.	2.0	5