

Nathaniel M Alpert

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

5,400
citations

147801

31
h-index

149698

56
g-index

61
all docs

61
docs citations

61
times ranked

4804
citing authors

#	ARTICLE	IF	CITATIONS
1	Topographical representations of mental images in primary visual cortex. <i>Nature</i> , 1995, 378, 496-498.	27.8	798
2	Visual Mental Imagery Activates Topographically Organized Visual Cortex: PET Investigations. <i>Journal of Cognitive Neuroscience</i> , 1993, 5, 263-287.	2.3	642
3	Mental rotation of objects versus hands: Neural mechanisms revealed by positron emission tomography. <i>Psychophysiology</i> , 1998, 35, 151-161.	2.4	543
4	Impaired recruitment of the hippocampus during conscious recollection in schizophrenia. <i>Nature Neuroscience</i> , 1998, 1, 318-323.	14.8	529
5	Effects of Syntactic Structure and Propositional Number on Patterns of Regional Cerebral Blood Flow. <i>Journal of Cognitive Neuroscience</i> , 1998, 10, 541-552.	2.3	433
6	A PET investigation of implicit and explicit sequence learning. <i>Human Brain Mapping</i> , 1995, 3, 271-286.	3.6	215
7	Functional imaging of human right hemispheric activation for exploratory movements. <i>Annals of Neurology</i> , 1996, 39, 174-179.	5.3	147
8	A novel method for noninvasive detection of neuromodulatory changes in specific neurotransmitter systems. <i>NeuroImage</i> , 2003, 19, 1049-1060.	4.2	131
9	Individual Differences in Cerebral Blood Flow in Area 17 Predict the Time to Evaluate Visualized Letters. <i>Journal of Cognitive Neuroscience</i> , 1996, 8, 78-82.	2.3	118
10	Striatal dopamine release in sequential learning. <i>NeuroImage</i> , 2007, 38, 549-556.	4.2	118
11	Neurovascular coupling to D2/D3 dopamine receptor occupancy using simultaneous PET/functional MRI. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 11169-11174.	7.1	112
12	Rapid detection of Parkinson's disease by SPECT with altropane: A selective ligand for dopamine transporters. , 1998, 29, 128-141.		104
13	A Positron Emission Tomographic Study of Symptom Provocation in PTSD. <i>Annals of the New York Academy of Sciences</i> , 1997, 821, 521-523.	3.8	102
14	Auditory Priming within and across Modalities: Evidence from Positron Emission Tomography. <i>Journal of Cognitive Neuroscience</i> , 1999, 11, 337-348.	2.3	98
15	A Method for Assessing the Accuracy of Intersubject Registration of the Human Brain Using Anatomic Landmarks. <i>NeuroImage</i> , 1999, 9, 250-268.	4.2	94
16	Neural systems that encode categorical versus coordinate spatial relations: PET investigations. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 1998, 26, 333-347.	1.3	78
17	Mental rotation of objects versus hands: Neural mechanisms revealed by positron emission tomography. <i>Psychophysiology</i> , 1998, 35, 151-161.	2.4	75
18	Dopamine release during human emotional processing. <i>NeuroImage</i> , 2009, 47, 2041-2045.	4.2	66

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19	Identifying objects at different levels of hierarchy: A positron emission tomography study. <i>Human Brain Mapping</i> , 1995, 3, 107-132.	3.6	63
20	Improved Signal-to-Noise Ratio in Parametric Images by Cluster Analysis. <i>NeuroImage</i> , 1999, 9, 554-561.	4.2	62
21	In vivo imaging of neuromodulation using positron emission tomography: Optimal ligand characteristics and task length for detection of activation. <i>Human Brain Mapping</i> , 1995, 3, 35-55.	3.6	58
22	[11C,127I] Altropane: A highly selective ligand for PET imaging of dopamine transporter sites. <i>Synapse</i> , 2001, 39, 332-342.	1.2	57
23	A receptor-based model for dopamine-induced fMRI signal. <i>NeuroImage</i> , 2013, 75, 46-57.	4.2	57
24	In vivo imaging of neuromodulatory synaptic transmission using PET: A review of relevant neurophysiology. <i>Human Brain Mapping</i> , 1995, 3, 24-34.	3.6	50
25	Striatal dopamine release during unrewarded motor task in human volunteers. <i>NeuroReport</i> , 2003, 14, 1421-1424.	1.2	45
26	Bias Atlases for Segmentation-Based PET Attenuation Correction Using PET-CT and MR. <i>IEEE Transactions on Nuclear Science</i> , 2013, 60, 3373-3382.	2.0	42
27	Frontostriatal and Dopamine Markers of Individual Differences in Reinforcement Learning: A Multi-modal Investigation. <i>Cerebral Cortex</i> , 2018, 28, 4281-4290.	2.9	38
28	Mapping of local renal blood flow with PET and H(2)(15)O. <i>Journal of Nuclear Medicine</i> , 2002, 43, 470-5.	5.0	36
29	Quantification of dopamine transporter density in monkeys by dynamic PET imaging of multiple injections of 11C-CFT. , 1996, 24, 262-272.		33
30	Dehydrogenase regulation of metabolite oxidation and efflux from mitochondria in intact hearts. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1998, 274, H467-H476.	3.2	33
31	Explicit motor memory activates the striatal dopamine system. <i>NeuroReport</i> , 2008, 19, 409-412.	1.2	33
32	Factors Influencing Regional Myocardial Contractile Response to Inotropic Stimulation. <i>Circulation</i> , 1996, 94, 643-650.	1.6	33
33	The 15O Steady-State Method: Correction for Variation in Arterial Concentration. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1988, 8, 681-690.	4.3	31
34	Positron imaging in ischemic stroke disease. <i>Annals of Neurology</i> , 1984, 15, 126-130.	5.3	30
35	Optimization of dynamic measurement of receptor kinetics by wavelet denoising. <i>NeuroImage</i> , 2006, 30, 444-451.	4.2	30
36	Quantitative in vivo mapping of myocardial mitochondrial membrane potential. <i>PLoS ONE</i> , 2018, 13, e0190968.	2.5	30

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37	Comparison of Two Compartmental Models for Describing Receptor Ligand Kinetics and Receptor Availability in Multiple Injection PET Studies. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1996, 16, 841-853.	4.3	27
38	Mapping ¹⁵ O Production Rate for Proton Therapy Verification. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015, 92, 453-459.	0.8	23
39	Brain rCBF and performance in visual imagery tasks: Common and distinct processes. <i>European Journal of Cognitive Psychology</i> , 2004, 16, 696-716.	1.3	21
40	Coregistration of Head CT Comparison Studies. <i>Academic Radiology</i> , 2003, 10, 242-248.	2.5	17
41	In vivo quantitative mapping of human mitochondrial cardiac membrane potential: a feasibility study. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 414-420.	6.4	16
42	Performance Evaluation of an Automated System for Registration and Postprocessing of CT Scans. <i>Journal of Computer Assisted Tomography</i> , 2001, 25, 747-752.	0.9	15
43	A general method of Bayesian estimation for parametric imaging of the brain. <i>NeuroImage</i> , 2009, 45, 1183-1189.	4.2	15
44	Single-scan rest/stress imaging ¹⁸ F-labeled flow tracers. <i>Medical Physics</i> , 2012, 39, 6609-6620.	3.0	14
45	Body motion detection and correction in cardiac PET: Phantom and human studies. <i>Medical Physics</i> , 2019, 46, 4898-4906.	3.0	14
46	Single-scan rest/stress imaging: validation in a porcine model with ¹⁸ F-Flurpiridaz. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2017, 44, 1538-1546.	6.4	13
47	Quantification of Myocardial Mitochondrial Membrane Potential Using PET. <i>Current Cardiology Reports</i> , 2021, 23, 70.	2.9	9
48	In vivo quantification of mitochondrial membrane potential. <i>Nature</i> , 2020, 583, E17-E18.	27.8	8
49	Regional perfusion, oxygen metabolism, blood volume and immunoglobulin G accumulation at focal sites of infection in rabbits. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 1992, 19, 166-72.	2.1	7
50	Parametric imaging with Bayesian priors: A validation study with ¹¹ C-Altropane PET. <i>NeuroImage</i> , 2012, 61, 131-138.	4.2	7
51	PET imaging of mitochondrial function in acute doxorubicin-induced cardiotoxicity: a proof-of-principle study. <i>Scientific Reports</i> , 2022, 12, 6122.	3.3	7
52	Positron Imaging Instrumentation. <i>IEEE Transactions on Nuclear Science</i> , 1977, 24, 914-916.	2.0	5
53	In-vivo Imaging of Mitochondrial Depolarization of Myocardium With Positron Emission Tomography and a Proton Gradient Uncoupler. <i>Frontiers in Physiology</i> , 2020, 11, 491.	2.8	5
54	Preclinical Validation of a Single-Scan Rest/Stress Imaging Technique for ¹³ N-Ammonia Positron Emission Tomography Cardiac Perfusion Studies. <i>Circulation: Cardiovascular Imaging</i> , 2020, 13, e009407.	2.6	5

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55	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
56	Measurement of both left ventricular function and regional myocardial perfusion with ¹³³ Xe in dogs. European Journal of Nuclear Medicine and Molecular Imaging, 1987, 12, 533-541.	2.1	2
57	Rapid computation of single <sc>PET</sc> scan rest–stress myocardial blood flow parametric images by table look up. Medical Physics, 2017, 44, 4643-4651.	3.0	1
58	Awake animal functional imaging to investigate the effects of general anesthesia on brain. , 2018, , .		1
59	PET imaging of neurotransmission using direct parametric reconstruction. NeuroImage, 2020, 221, 117154.	4.2	1
60	Optimization of wavelet processing of dynamic PET data. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S639-S639.	4.3	0
61	Factors Influencing Isotope Equilibrium Rates Affect ¹¹ C PET Analysis. Circulation, 1999, 99, .	1.6	0