## Valerie Treyer

## List of Publications by Year in descending order

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Version: 2024-02-01

		87843	45285
123	8,882	38	90
papers	citations	h-index	g-index
128	128	128	8348
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	The Neural Basis of Altruistic Punishment. Science, 2004, 305, 1254-1258.	6.0	2,264
2	Diminishing Reciprocal Fairness by Disrupting the Right Prefrontal Cortex. Science, 2006, 314, 829-832.	6.0	910
3	Feasibility of low-dose coronary CT angiography: first experience with prospective ECG-gating. European Heart Journal, 2007, 29, 191-197.	1.0	479
4	Disruption of Right Prefrontal Cortex by Low-Frequency Repetitive Transcranial Magnetic Stimulation Induces Risk-Taking Behavior. Journal of Neuroscience, 2006, 26, 6469-6472.	1.7	434
5	Glucocorticoid-induced impairment of declarative memory retrieval is associated with reduced blood flow in the medial temporal lobe. European Journal of Neuroscience, 2003, 17, 1296-1302.	1.2	290
6	Electromagnetic fields, such as those from mobile phones, alter regional cerebral blood flow and sleep and waking EEG. Journal of Sleep Research, 2002, 11, 289-295.	1.7	269
7	Reduced Metabotropic Glutamate Receptor 5 Density in Major Depression Determined by [ <sup>11</sup> C]ABP688 PET and Postmortem Study. American Journal of Psychiatry, 2011, 168, 727-734.	4.0	239
8	Nuclear Myocardial Perfusion Imaging with a Cadmium-Zinc-Telluride Detector Technique: Optimized Protocol for Scan Time Reduction. Journal of Nuclear Medicine, 2010, 51, 46-51.	2.8	195
9	Ultrafast nuclear myocardial perfusion imaging on a new gamma camera with semiconductor detector technique: first clinical validation. European Journal of Nuclear Medicine and Molecular Imaging, 2010, 37, 773-778.	3.3	165
10	Colocalization of cerebral iron with Amyloid beta in Mild Cognitive Impairment. Scientific Reports, 2016, 6, 35514.	1.6	147
11	CT vs 68Ge attenuation correction in a combined PET/CT system: evaluation of the effect of lowering the CT tube current. European Journal of Nuclear Medicine and Molecular Imaging, 2002, 29, 346-350.	3.3	134
12	Selection of Currently Relevant Memories by the Human Posterior Medial Orbitofrontal Cortex. Journal of Neuroscience, 2000, 20, 5880-5884.	1.7	132
13	Exposure to pulse-modulated radio frequency electromagnetic fields affects regional cerebral blood flow. European Journal of Neuroscience, 2005, 21, 1000-1006.	1.2	131
14	F-18 FDG Whole-Body PET for the Assessment of Disease Activity in Patients With Rheumatoid Arthritis. Clinical Nuclear Medicine, 2006, 31, 386-390.	0.7	122
15	Human PET studies of metabotropic glutamate receptor subtype 5 with 11C-ABP688. Journal of Nuclear Medicine, 2007, 48, 247-52.	2.8	121
16	Application of Oral Contrast Media in Coregistered Positron Emission Tomographyâ€"CT. American Journal of Roentgenology, 2002, 179, 477-481.	1.0	100
17	Marked global reduction in mGluR5 receptor binding in smokers and ex-smokers determined by [ <sup>11</sup> C]ABP688 positron emission tomography. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 737-742.	3.3	100
18	Lateralized and frequency-dependent effects of prefrontal rTMS on regional cerebral blood flow. NeuroImage, 2006, 31, 641-648.	2.1	98

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19	Nonconscious formation and reactivation of semantic associations by way of the medial temporal lobe. Neuropsychologia, 2003, 41, 863-876.	0.7	94
20	Absolute Quantification of Cerebral Blood Flow with Magnetic Resonance, Reproducibility of the Method, and Comparison with H215O Positron Emission Tomography. Journal of Cerebral Blood Flow and Metabolism, 2002, 22, 1149-1156.	2.4	93
21	Attention and Interhemispheric Transfer: A Behavioral and fMRI Study. Journal of Cognitive Neuroscience, 2005, 17, 113-123.	1.1	91
22	Time-course of "off-line―prefrontal rTMS effects — a PET study. NeuroImage, 2008, 42, 379-384.	2.1	90
23	First head-to-head comparison of effective radiation dose from low-dose 64-slice CT with prospective ECG-triggering versus invasive coronary angiography. Heart, 2009, 95, 1656-1661.	1.2	89
24	Low-Dose Computed Tomography Coronary Angiography With Prospective Electrocardiogram Triggering. Journal of the American College of Cardiology, 2011, 57, 332-336.	1.2	84
25	Active hippocampus during nonconscious memories. Consciousness and Cognition, 2003, 12, 31-48.	0.8	76
26	The human orbitofrontal cortex monitors outcomes even when no reward is at stake. Neuropsychologia, 2005, 43, 316-323.	0.7	70
27	Simultaneous quantitative susceptibility mapping and Flutemetamol-PET suggests local correlation of iron and $\hat{I}^2$ -amyloid as an indicator of cognitive performance at high age. Neurolmage, 2018, 174, 308-316.	2.1	70
28	Evaluation of the Metabotropic Glutamate Receptor Subtype 5 Using PET and 11C-ABP688: Assessment of Methods. Journal of Nuclear Medicine, 2007, 48, 1207-1215.	2.8	68
29	Validation of CT Attenuation Correction for High-Speed Myocardial Perfusion Imaging Using a Novel Cadmium-Zinc-Telluride Detector Technique. Journal of Nuclear Medicine, 2010, 51, 1539-1544.	2.8	59
30	Tauvidâ,,¢: The First FDA-Approved PET Tracer for Imaging Tau Pathology in Alzheimer's Disease. Pharmaceuticals, 2021, 14, 110.	1.7	56
31	New reconstruction algorithm allows shortened acquisition time for myocardial perfusion SPECT. European Journal of Nuclear Medicine and Molecular Imaging, 2010, 37, 750-757.	3.3	48
32	Smoking but not cocaine use is associated with lower cerebral metabotropic glutamate receptor 5 density in humans. Molecular Psychiatry, 2014, 19, 625-632.	4.1	47
33	Subcortical Loop Activation during Selection of Currently Relevant Memories. Journal of Cognitive Neuroscience, 2003, 15, 610-618.	1.1	46
34	Absolute Quantification of Myocardial Blood Flow with 13N-Ammonia and 3-Dimensional PET. Journal of Nuclear Medicine, 2007, 48, 1783-1789.	2.8	46
35	Metabotropic glutamate receptor 5 binding in patients with obsessive-compulsive disorder. International Journal of Neuropsychopharmacology, 2014, 17, 1915-1922.	1.0	46
36	Stimulation-Induced Increases of Astrocytic Oxidative Metabolism in Rats and Humans Investigated with 1- <sup>11</sup> C-Acetate. Journal of Cerebral Blood Flow and Metabolism, 2009, 29, 44-56.	2.4	43

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37	McLeod phenotype associated with a XK missense mutation without hematologic, neuromuscular, or cerebral involvement. Transfusion, 2003, 43, 928-938.	0.8	41
38	Spatial Heterogeneity of Low-Grade Gliomas at the Capillary Level: A PET Study on Tumor Blood Flow and Amino Acid Uptake. Journal of Nuclear Medicine, 2007, 48, 1047-1052.	2.8	41
39	[18F]FDG uptake of axillary lymph nodes after COVID-19 vaccination in oncological PET/CT: frequency, intensity, and potential clinical impact. European Radiology, 2022, 32, 508-516.	2.3	41
40	Metabotropic glutamate receptor 5 binding in male patients with alcohol use disorder. Translational Psychiatry, 2018, 8, 17.	2.4	40
41	Uptake of 18F-fluorocholine, 18F-fluoro-ethyl-L-tyrosine and 18F-fluoro-2-deoxyglucose in F98 gliomas in the rat. European Journal of Nuclear Medicine and Molecular Imaging, 2006, 33, 673-682.	3.3	39
42	Artificial intelligence for detecting small FDG-positive lung nodules in digital PET/CT: impact of image reconstructions on diagnostic performance. European Radiology, 2020, 30, 2031-2040.	2.3	39
43	Quantitative evaluation of 11C-ABP688 as PET ligand for the measurement of the metabotropic glutamate receptor subtype 5 using autoradiographic studies and a beta-scintillator. Neurolmage, 2007, 35, 1086-1092.	2.1	37
44	Uptake of 18F-Fluorocholine, 18F-FET, and 18F-FDG in C6 Gliomas and Correlation with 131I-SIP(L19), a Marker of Angiogenesis. Journal of Nuclear Medicine, 2007, 48, 608-614.	2.8	36
45	Association of Long-Term Nicotine Abstinence With Normal Metabotropic Glutamate Receptor-5 Binding. Biological Psychiatry, 2016, 79, 474-480.	0.7	34
46	Hierarchical visual processing is dependent on the oculomotor system. NeuroReport, 2000, 11, 241-248.	0.6	33
47	Radiation dosimetry and biodistribution of 11C-ABP688 measured in healthy volunteers. European Journal of Nuclear Medicine and Molecular Imaging, 2008, 35, 766-770.	3.3	30
48	Assessment of serotonin release capacity in the human brain using dexfenfluramine challenge and [18F]altanserin positron emission tomography. Neurolmage, 2012, 59, 3922-3932.	2.1	30
49	Radioimmunotherapy targeting the extra domain B of fibronectin in C6 rat gliomas: a preliminary study about the therapeutic efficacy of iodine-131-labeled SIP(L19). Nuclear Medicine and Biology, 2006, 33, 661-666.	0.3	29
50	Metabotropic glutamate receptor 5 neuroimaging in schizophrenia. Schizophrenia Research, 2017, 183, 95-101.	1.1	29
51	Age- and sex-dependent changes in sympathetic activity of the left ventricular apex assessed by 18F-DOPA PET imaging. PLoS ONE, 2018, 13, e0202302.	1.1	29
52	Heart–brain interactions in cardiac and brain diseases: why sex matters. European Heart Journal, 2022, 43, 3971-3980.	1.0	28
53	Feasibility of integrated CT-liver perfusion in routine FDG-PET/CT. Abdominal Imaging, 2010, 35, 528-536.	2.0	27
54	Functional neuroimaging predicts individual memory outcome after amygdalohippocampectomy. NeuroReport, 2003, 14, 1197-1202.	0.6	26

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55	Cortical Amyloid Beta in Cognitively Normal Elderly Adults is Associated with Decreased Network Efficiency within the Cerebro-Cerebellar System. Frontiers in Aging Neuroscience, 2014, 6, 52.	1.7	26
56	Low cortical iron and high entorhinal cortex volume promote cognitive functioning in the oldest-old. Neurobiology of Aging, 2018, 64, 68-75.	1.5	25
57	Microvascular dysfunction and sympathetic hyperactivity in women with supra-normal left ventricular ejection fraction (snLVEF). European Journal of Nuclear Medicine and Molecular Imaging, 2020, 47, 3094-3106.	3.3	25
58	Assessment of successful incorporation of cages after cervical or lumbar intercorporal fusion with [(18)F]fluoride positron-emission tomography/computed tomography. European Spine Journal, 2011, 20, 640-648.	1.0	24
59	Association between resting amygdalar activity and abnormal cardiac function in women and men: a retrospective cohort study. European Heart Journal Cardiovascular Imaging, 2019, 20, 625-632.	0.5	24
60	Objective and subjective comparison of standard 2-D and fully 3-D reconstructed data on a PET/CT system. Nuclear Medicine Communications, 2007, 28, 555-559.	0.5	23
61	APOE4 moderates effects of cortical iron on synchronized default mode network activity in cognitively healthy oldâ€aged adults. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2020, 12, e12002.	1.2	23
62	Radiation dosimetry of 18F-AzaFol: A first in-human use of a folate receptor PET tracer. EJNMMI Research, 2020, 10, 32.	1.1	23
63	Quantitative cerebral H2 150 perfusion PET without arterial blood sampling, a method based on washout rate. European Journal of Nuclear Medicine and Molecular Imaging, 2003, 30, 572-580.	3.3	22
64	Sex Differences in the Association between Inflammation and Ischemic Heart Disease. Thrombosis and Haemostasis, 2019, 119, 1471-1480.	1.8	22
65	Sex differences in the long-term prognostic value of 13N-ammonia myocardial perfusion positron emission tomography. European Journal of Nuclear Medicine and Molecular Imaging, 2018, 45, 1964-1974.	3.3	21
66	Functional Brain Network Connectivity Patterns Associated With Normal Cognition at Old-Age, Local $\hat{l}^2$ -amyloid, Tau, and APOE4. Frontiers in Aging Neuroscience, 2020, 12, 46.	1.7	21
67	Regional Fluid-Attenuated Inversion Recovery (FLAIR) at 7 Tesla correlates with amyloid beta in hippocampus and brainstem of cognitively normal elderly subjects. Frontiers in Aging Neuroscience, 2014, 6, 240.	1.7	20
68	Dynamic changes in cerebral and peripheral markers of glutamatergic signaling across the human sleep ${\bf \hat{a}}$ -wake cycle. Sleep, 2019, 42, .	0.6	20
69	Sex-dependent association between inflammation, neural stress responses, and impaired myocardial function. European Journal of Nuclear Medicine and Molecular Imaging, 2020, 47, 2010-2015.	3.3	19
70	Heart rate reserve during pharmacological stress is a significant negative predictor of impaired coronary flow reserve in women. European Journal of Nuclear Medicine and Molecular Imaging, 2019, 46, 1257-1267.	3.3	18
71	18F-FET PET for Diagnosis of Pseudoprogression of Brain Metastases in Patients With Non–Small Cell Lung Cancer. Clinical Nuclear Medicine, 2020, 45, 113-117.	0.7	17
72	Quantification of perivascular inflammation does not provide incremental prognostic value over myocardial perfusion imaging and calcium scoring. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 48, 1806-1812.	3.3	17

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73	Brain amyloid burden and cerebrovascular disease are synergistically associated with neurometabolism in cognitively unimpaired older adults. Neurobiology of Aging, 2018, 63, 152-161.	1.5	16
74	A first-in-man PET study of [18F]PSS232, a fluorinated ABP688 derivative for imaging metabotropic glutamate receptor subtype 5. European Journal of Nuclear Medicine and Molecular Imaging, 2018, 45, 1041-1051.	3.3	16
75	Imaging glutamate redistribution after acute N-acetylcysteine administration: A simultaneous PET/MR study. NeuroImage, 2019, 184, 826-833.	2.1	16
76	Impact of PET data driven respiratory motion correction and BSREM reconstruction of 68Ga-DOTATATE PET/CT for differentiating neuroendocrine tumors (NET) and intrapancreatic accessory spleens (IPAS). Scientific Reports, 2021, 11, 2273.	1.6	15
77	Selection of currently relevant words: an auditory verbal memory study using positron emission tomography. NeuroReport, 2006, 17, 323-327.	0.6	14
78	Myocardial 18F-FDG Uptake Pattern for Cardiovascular Risk Stratification in Patients Undergoing Oncologic PET/CT. Journal of Clinical Medicine, 2020, 9, 2279.	1.0	14
79	Reduced uptake of [11C]â€ABP688, a PET tracer for metabolic glutamate receptor 5 in hippocampus and amygdala in Alzheimer's dementia. Brain and Behavior, 2020, 10, e01632.	1.0	14
80	Processing content or location: Distinct brain activation in a memory task. Hippocampus, 2005, 15, 684-689.	0.9	13
81	Assessment of myocardial perfusion by dynamic O-15–labeled water PET imaging: Validation of a new fast factor analysis. Journal of Nuclear Cardiology, 2007, 14, 698-705.	1.4	13
82	Heart rate reserve is a long-term risk predictor in women undergoing myocardial perfusion imaging. European Journal of Nuclear Medicine and Molecular Imaging, 2019, 46, 2032-2041.	3.3	12
83	Splenic switch-off as a novel marker for adenosine response in nitrogen-13 ammonia PET myocardial perfusion imaging: Cross-validation against CMR using a hybrid PET/MR device. Journal of Nuclear Cardiology, 2022, 29, 1205-1214.	1.4	12
84	Sex and age differences in the association of heart rate responses to adenosine and myocardial ischemia in patients undergoing myocardial perfusion imaging. Journal of Nuclear Cardiology, 2020, 27, 159-170.	1.4	11
85	Metabotropic glutamate receptor 5 in bulimia nervosa. Scientific Reports, 2020, 10, 6374.	1.6	11
86	Constant-infusion H(2)150 PET and acetazolamide challenge in the assessment of cerebral perfusion status. Journal of Nuclear Medicine, 2004, 45, 1344-50.	2.8	11
87	Increased cerebral blood volume in small arterial vessels is aÂcorrelate of amyloid-β–related cognitive decline. Neurobiology of Aging, 2019, 76, 181-193.	1.5	10
88	Physical activity is associated with lower cerebral beta-amyloid and cognitive function benefits from lifetime experience–a study in exceptional aging. PLoS ONE, 2021, 16, e0247225.	1.1	10
89	NEMA NU 2–2018 performance evaluation of a new generation 30-cm axial field-of-view Discovery MI PET/CT. European Journal of Nuclear Medicine and Molecular Imaging, 2022, 49, 3023-3032.	<b>3.</b> 3	10
90	Hippocampal shape alterations are associated with regional ${\sf A\hat{l}^2}$ load in cognitively normal elderly individuals. European Journal of Neuroscience, 2017, 45, 1241-1251.	1.2	9

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91	Quantification of intrathoracic fat adds prognostic value in women undergoing myocardial perfusion imaging. International Journal of Cardiology, 2019, 292, 258-264.	0.8	9
92	Changes in Cerebral Glucose Metabolism after an Expedition to High Altitudes. High Altitude Medicine and Biology, 2006, 7, 28-38.	0.5	7
93	Association between vertebral bone mineral density, myocardial perfusion, and long-term cardiovascular outcomes: A sex-specific analysis. Journal of Nuclear Cardiology, 2020, 27, 726-736.	1.4	7
94	Transient epileptic opercular syndrome. Seizure: the Journal of the British Epilepsy Association, 2007, 16, 276-282.	0.9	6
95	FDG uptake in vaginal tampons is caused by urinary contamination and related to tampon position. European Journal of Nuclear Medicine and Molecular Imaging, 2011, 38, 90-96.	3.3	6
96	Regional brain mGlu5 receptor occupancy following single oral doses of mavoglurant as measured by [11C]-ABP688 PET imaging in healthy volunteers. NeuroImage, 2021, 230, 117785.	2.1	6
97	Lifestyle Affects Amyloid Burden and Cognition Differently in Men and Women. Annals of Neurology, 2022, 92, 451-463.	2.8	6
98	Low Subicular Volume as an Indicator of Dementia-Risk Susceptibility in Old Age. Frontiers in Aging Neuroscience, 2022, 14, 811146.	1.7	5
99	Effects of baseline task position on apparent activation in functional imaging of memory. Neuropsychologia, 2006, 44, 462-468.	0.7	4
100	Metabolic Activity in Central Neural Structures of Patients With Myocardial Injury. Journal of the American Heart Association, 2019, 8, e013070.	1.6	4
101	Age- and sex-dependent changes of resting amygdalar activity in individuals free of clinical cardiovascular disease. Journal of Nuclear Cardiology, 2021, 28, 427-432.	1.4	4
102	Rest/stress myocardial perfusion imaging by positron emission tomography with 18F-Flurpiridaz: A feasibility study in mice. Journal of Nuclear Cardiology, 2023, 30, 62-73.	1.4	4
103	The role of the metabotropic glutamate receptor 5 in nicotine addiction. CNS Spectrums, 2020, , 1-6.	0.7	3
104	Alzheimer's disease biomarker roadmap 2020: Time for tau. Alzheimer's and Dementia, 2020, 16, e039549.	0.4	3
105	Whole-body parametric [18F]-FDG PET/CT improves interpretation of a distant lesion as venous embolus in a lung cancer patient. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 48, 2047-2048.	3.3	3
106	The Interplay Between Postsynaptic Striatal D2/3 Receptor Availability, Adversity Exposure and Odd Beliefs: A [11C]-Raclopride PET Study. Schizophrenia Bulletin, 2021, 47, 1495-1508.	2.3	3
107	Radiation dosimetry of [18F]-PSS232—a PET radioligand for imaging mGlu5 receptors in humans. EJNMMI Research, 2019, 9, 56.	1.1	2
108	Alzheimer's disease biomarker roadmap 2020: Fluid biomarkers. Alzheimer's and Dementia, 2020, 16, e039557.	0.4	2

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109	FDG-PET/CT: novel method for viability assessment of livers perfused ex vivo. Nuclear Medicine Communications, 2021, 42, 826-832.	0.5	2
110	Potential Impact of Statins on Neuronal Stress Responses in Patients at Risk for Cardiovascular Disease. Journal of Personalized Medicine, 2021, 11, 261.	1.1	2
111	S.28.03 Abnormalities of glutamate and GABA systems in depression: novel findings from studies using MRS and PET. European Neuropsychopharmacology, 2010, 20, S207-S208.	0.3	1
112	Association between beta-adrenoceptor antagonist-induced sympathicolysis and severity of coronary artery disease as assessed by coronary computed tomography angiography (CCTA). International Journal of Cardiovascular Imaging, 2019, 35, 927-936.	0.7	1
113	Alzheimer's disease biomarker roadmap 2020: Secondâ€generation tau PET tracers. Alzheimer's and Dementia, 2020, 16, e039556.	0.4	1
114	GABA and glutamate associate with evidence of preclinical Alzheimer disease in humans: A 7 Tesla MRSI and <sup>11</sup> Câ€PIB PET study. Alzheimer's and Dementia, 2020, 16, e044175.	0.4	1
115	A pilot study on lung cancer detection based on regional metabolic activity distribution in digital low-dose 18F-FDG PET. British Journal of Radiology, 2021, 94, 20200244.	1.0	1
116	P.1.e.012 Assessment of serotonin release capacity in the human brain using dexfenfluramine challenge and [18F]altanserin-PET. European Neuropsychopharmacology, 2007, 17, S287.	0.3	0
117	MGluR5 binding as a specific biomarker for nicotine dependence and relapse in humans. European Neuropsychopharmacology, 2016, 26, S126.	0.3	0
118	[ICâ€Pâ€018]: NEUROIMAGINGâ€DEFINED AMYLOID AND CEREBROVASCULAR PATHOLOGY ARE ASSOCIATED NEUROMETABOLIC SIGNATURE OF ALZHEIMER's DISEASE. Alzheimer's and Dementia, 2017, 13, P20.	VITH A 0.4	0
119	Alzheimer's disease biomarker roadmap 2020: [ 18 F]flortaucipir. Alzheimer's and Dementia, 2020, 16, e039550.	0.4	О
120	Betaâ€amyloidâ€associated episodic memory variation correlates with subicular volume in nonâ€demented old aged individuals. Alzheimer's and Dementia, 2020, 16, e043904.	0.4	0
121	Early $\hat{l}$ -Amyloid Accumulation in the Brain Is Associated With Blood T and B Cell Alterations. SSRN Electronic Journal, $0$ , , .	0.4	О
122	Outcome analyses in patients with metastatic gastroenteropancreatic neuroendocrine tumors receiving peptide receptor radionuclide therapy with ⟨sup⟩177⟨/sup⟩Lu-DOTATATE – Impact of treatment order and combination on mortality Journal of Clinical Oncology, 2020, 38, 4606-4606.	0.8	0
123	Male subjects who could not perceive the pheromone 5a-androst-16-en-3-one, produced similar orbitofrontal changes on PET compared with perceptible phenylethyl alcohol (rose). Rhinology, 2006, 44, 278-82.	0.7	0