

Vesa Oikonen

List of Publications by Citations

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99
papers

4,456
citations

34
h-index

64
g-index

105
ext. papers

4,996
ext. citations

5.6
avg, IF

4.61
L-index

#	Paper	IF	Citations
99	Different metabolic responses of human brown adipose tissue to activation by cold and insulin. <i>Cell Metabolism</i> , 2011 , 14, 272-9	24.6	505
98	Effects of sevoflurane, propofol, and adjunct nitrous oxide on regional cerebral blood flow, oxygen consumption, and blood volume in humans. <i>Anesthesiology</i> , 2003 , 99, 603-13	4.3	286
97	Effects of surgical levels of propofol and sevoflurane anesthesia on cerebral blood flow in healthy subjects studied with positron emission tomography. <i>Anesthesiology</i> , 2002 , 96, 1358-70	4.3	217
96	Cognitive reserve hypothesis: Pittsburgh Compound B and fluorodeoxyglucose positron emission tomography in relation to education in mild Alzheimer's disease. <i>Annals of Neurology</i> , 2008 , 63, 112-8	9.4	184
95	Effects of subanesthetic doses of ketamine on regional cerebral blood flow, oxygen consumption, and blood volume in humans. <i>Anesthesiology</i> , 2003 , 99, 614-23	4.3	167
94	Imaging perfusion and hypoxia with PET to predict radiotherapy response in head-and-neck cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004 , 59, 971-82	4	149
93	Increased brain fatty acid uptake in metabolic syndrome. <i>Diabetes</i> , 2010 , 59, 2171-7	0.9	132
92	Test-retest reliability of (11)C-ORM-13070 in PET imaging of α C-adrenoceptors in vivo in the human brain. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2015 , 42, 120-7	8.8	128
91	High intensity exercise decreases global brain glucose uptake in humans. <i>Journal of Physiology</i> , 2005 , 568, 323-32	3.9	124
90	S-ketamine anesthesia increases cerebral blood flow in excess of the metabolic needs in humans. <i>Anesthesiology</i> , 2005 , 103, 258-68	4.3	109
89	Human brown adipose tissue [(15)O]O ₂ PET imaging in the presence and absence of cold stimulus. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2016 , 43, 1878-86	8.8	104
88	Regional effects of donepezil and rivastigmine on cortical acetylcholinesterase activity in Alzheimer's disease. <i>Journal of Clinical Psychopharmacology</i> , 2002 , 22, 615-20	1.7	101
87	Effects of subanesthetic ketamine on regional cerebral glucose metabolism in humans. <i>Anesthesiology</i> , 2004 , 100, 1065-71	4.3	92
86	Quantification of [18F]DPA-714 binding in the human brain: initial studies in healthy controls and Alzheimer's disease patients. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015 , 35, 766-72	7.3	82
85	Skeletal muscle blood flow and oxygen uptake at rest and during exercise in humans: a pet study with nitric oxide and cyclooxygenase inhibition. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011 , 300, H1510-7	5.2	81
84	Lumped constant for [(18)F]fluorodeoxyglucose in skeletal muscles of obese and nonobese humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2000 , 279, E1122-30	6	73
83	The effects of bariatric surgery on pancreatic lipid metabolism and blood flow. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015 , 100, 2015-23	5.6	67

82	Quantifying tumour hypoxia with fluorine-18 fluoroerythronitroimidazole ([18F]FETNIM) and PET using the tumour to plasma ratio. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2003 , 30, 101-8	8.8	66
81	Prolonged central mu-opioid receptor occupancy after single and repeated nalmefene dosing. <i>Neuropsychopharmacology</i> , 2005 , 30, 2245-53	8.7	66
80	Measurement of striatal and extrastriatal dopamine transporter binding with high-resolution PET and [11C]PE2I: quantitative modeling and test-retest reproducibility. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2008 , 28, 1059-69	7.3	60
79	Insulin-mediated hepatic glucose uptake is impaired in type 2 diabetes: evidence for a relationship with glycemic control. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2003 , 88, 2055-60	5.6	60
78	Measurement of serotonin 5-HT1A receptor binding using positron emission tomography and [carbonyl-(11C)]WAY-100635-considerations on the validity of cerebellum as a reference region. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2007 , 27, 185-95	7.3	57
77	Measurement of central mu-opioid receptor binding in vivo with PET and [11C]carfentanil: a test-retest study in healthy subjects. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2009 , 36, 275-86	8.8	55
76	Positron emission tomography imaging of the 18-kDa translocator protein (TSPO) with [18F]FEMPA in Alzheimer's disease patients and control subjects. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2015 , 42, 438-46	8.8	54
75	Comparison of exogenous adenosine and voluntary exercise on human skeletal muscle perfusion and perfusion heterogeneity. <i>Journal of Applied Physiology</i> , 2010 , 108, 378-86	3.7	50
74	Comparison of MRI and positron emission tomography for measuring myocardial perfusion reserve in healthy humans. <i>Magnetic Resonance in Medicine</i> , 2006 , 55, 772-9	4.4	50
73	Correlation of 18F-FDG PET/CT assessments with disease activity and markers of inflammation in patients with early rheumatoid arthritis following the initiation of combination therapy with triple oral antirheumatic drugs. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2013 , 40, 403-10	8.8	49
72	Visualization and quantification of neurokinin-1 (NK1) receptors in the human brain. <i>Molecular Imaging and Biology</i> , 2005 , 7, 262-72	3.8	47
71	Effects of xenon anesthesia on cerebral blood flow in humans: a positron emission tomography study. <i>Anesthesiology</i> , 2007 , 106, 1128-33	4.3	46
70	Regulation of human skeletal muscle perfusion and its heterogeneity during exercise in moderate hypoxia. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2010 , 299, R72-9	3.2	44
69	Measurement of extrastriatal D2-like receptor binding with [11C]FLB 457--a test-retest analysis. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2000 , 27, 1666-73	8.8	44
68	Pretargeted PET Imaging of -Cyclooctene-Modified Porous Silicon Nanoparticles. <i>ACS Omega</i> , 2017 , 2, 62-69	3.9	43
67	Sevoflurane and propofol increase 11C-flumazenil binding to gamma-aminobutyric acidA receptors in humans. <i>Anesthesia and Analgesia</i> , 2004 , 99, 1420-1426	3.9	40
66	Whole-body distribution and metabolism of [N-methyl-11C](R)-1-(2-chlorophenyl)-N-(1-methylpropyl)-3-isoquinolinecarboxamide in humans; an imaging agent for in vivo assessment of peripheral benzodiazepine receptor activity with positron emission tomography. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2009 , 36, 671-82	8.8	35
65	Measurement of GABAA receptor binding in vivo with [11C]flumazenil: a test-retest study in healthy subjects. <i>NeuroImage</i> , 2008 , 41, 260-9	7.9	34

64	Resistance to exercise-induced increase in glucose uptake during hyperinsulinemia in insulin-resistant skeletal muscle of patients with type 1 diabetes. <i>Diabetes</i> , 2001 , 50, 1371-7	0.9	33
63	14(R,S)-[18F]Fluoro-6-thia-heptadecanoic acid as a tracer of free fatty acid uptake and oxidation in myocardium and skeletal muscle. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2002 , 29, 1617-22	8.8	31
62	Automated reference region extraction and population-based input function for brain [(11)C]TMSX PET image analyses. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015 , 35, 157-65	7.3	30
61	Reproducibility of striatal and thalamic dopamine D2 receptor binding using [11C]raclopride with high-resolution positron emission tomography. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011 , 31, 155-65	7.3	30
60	Myocardial blood flow and adenosine A2A receptor density in endurance athletes and untrained men. <i>Journal of Physiology</i> , 2008 , 586, 5193-202	3.9	29
59	Defective liver disposal of free fatty acids in patients with impaired glucose tolerance. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2004 , 89, 3496-502	5.6	29
58	Insulin- and exercise-stimulated skeletal muscle blood flow and glucose uptake in obese men. <i>Obesity</i> , 2003 , 11, 257-65		29
57	Alfentanil increases cortical dopamine D2/D3 receptor binding in healthy subjects. <i>Pain</i> , 2004 , 109, 86-93		29
56	18F-FDG assessment of glucose disposal and production rates during fasting and insulin stimulation: a validation study. <i>Journal of Nuclear Medicine</i> , 2006 , 47, 1016-22	8.9	29
55	Myocardial blood flow and its transit time, oxygen utilization, and efficiency of highly endurance-trained human heart. <i>Basic Research in Cardiology</i> , 2014 , 109, 413	11.8	27
54	Xenon does not affect gamma-aminobutyric acid type A receptor binding in humans. <i>Anesthesia and Analgesia</i> , 2008 , 106, 129-34, table of contents	3.9	27
53	Pancreatic metabolism, blood flow, and cell function in obese humans. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2014 , 99, E981-90	5.6	26
52	Preserved relative dispersion but blunted stimulation of mean flow, absolute dispersion, and blood volume by insulin in skeletal muscle of patients with essential hypertension. <i>Circulation</i> , 1998 , 97, 2146-53	16.7	26
51	Perfusion heterogeneity in human skeletal muscle: fractal analysis of PET data. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2001 , 28, 450-6		26
50	Uptake of 4-borono-2-[18F]fluoro-L-phenylalanine in sporadic and neurofibromatosis 2-related schwannoma and meningioma studied with PET. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2007 , 34, 87-94	8.8	23
49	Cannabinoid Type 1 Receptors Are Upregulated During Acute Activation of Brown Adipose Tissue. <i>Diabetes</i> , 2018 , 67, 1226-1236	0.9	22
48	Dimeric [(68)Ga]DOTA-RGD peptide targeting $\alpha_5\beta_1$ integrin reveals extracellular matrix alterations after myocardial infarction. <i>Molecular Imaging and Biology</i> , 2014 , 16, 793-801	3.8	21
47	Motion detection and correction for dynamic (15)O-water myocardial perfusion PET studies. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2005 , 32, 1378-83	8.8	21

46	Regulation of human brown adipose tissue by adenosine and A receptors - studies with [O]HO and [C]TMSX PET/CT. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2019 , 46, 743-750	8.8	20
45	Evaluation of 68Ga-labeled tracers for PET imaging of myocardial perfusion in pigs. <i>Nuclear Medicine and Biology</i> , 2012 , 39, 715-23	2.1	20
44	Human obesity is characterized by defective fat storage and enhanced muscle fatty acid oxidation, and trimetazidine gradually counteracts these abnormalities. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011 , 301, E105-12	6	20
43	Liver uptake of free fatty acids in vivo in humans as determined with 14(R,S)-[18F]fluoro-6-thia-heptadecanoic acid and PET. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2003 , 30, 1160-4	8.8	20
42	The effects of xenon anesthesia on the relationship between cerebral glucose metabolism and blood flow in healthy subjects: a positron emission tomography study. <i>Anesthesia and Analgesia</i> , 2009 , 108, 593-600	3.9	19
41	Effects of meal and incretins in the regulation of splanchnic blood flow. <i>Endocrine Connections</i> , 2017 , 6, 179-187	3.5	18
40	18F-Fluoroerythronitroimidazole radiation dosimetry in cancer studies. <i>Journal of Nuclear Medicine</i> , 2002 , 43, 1674-80	8.9	18
39	Parametric Binding Images of the TSPO Ligand 18F-DPA-714. <i>Journal of Nuclear Medicine</i> , 2016 , 57, 1543-1547	15.47	17
38	Quantification of [Carbonyl-(11)C]WAY-100635 binding: considerations on the cerebellum. <i>Nuclear Medicine and Biology</i> , 2000 , 27, 483-6	2.1	17
37	Cerebral acetylcholinesterase activity is not decreased in MS patients with cognitive impairment. <i>Multiple Sclerosis Journal</i> , 2011 , 17, 931-8	5	16
36	Effect of training status on regional disposal of circulating free fatty acids in the liver and skeletal muscle during physiological hyperinsulinemia. <i>Diabetes Care</i> , 2004 , 27, 2172-7	14.6	16
35	A Novel Positron Emission Tomography (PET) Approach to Monitor Cardiac Metabolic Pathway Remodeling in Response to Sunitinib Malate. <i>PLoS ONE</i> , 2017 , 12, e0169964	3.7	16
34	Folate Receptor Targeted PET Imaging of Macrophages in Autoimmune Myocarditis. <i>Journal of Nuclear Medicine</i> , 2020 , 61, 1643-1649	8.9	14
33	[11C]-ORM-13070, a novel PET ligand for brain α -adrenoceptors: radiometabolism, plasma pharmacokinetics, whole-body distribution and radiation dosimetry in healthy men. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2014 , 41, 1947-56	8.8	14
32	The effect of revascularization of renal artery stenosis on renal perfusion in patients with atherosclerotic renovascular disease. <i>Nephrology Dialysis Transplantation</i> , 2012 , 27, 3843-8	4.3	13
31	Evidence for spatial heterogeneity in insulin- and exercise-induced increases in glucose uptake: studies in normal subjects and patients with type 1 diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2001 , 86, 5525-33	5.6	13
30	Myocardial blood flow, oxygen consumption, and fatty acid uptake in endurance athletes during insulin stimulation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1999 , 277, E585-90	6	13
29	(2S, 4R)-4-[F]Fluoroglutamine for In vivo PET Imaging of Glioma Xenografts in Mice: an Evaluation of Multiple Pharmacokinetic Models. <i>Molecular Imaging and Biology</i> , 2020 , 22, 969-978	3.8	13

28	Human Bone Marrow Adipose Tissue is a Metabolically Active and Insulin-Sensitive Distinct Fat Depot. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020 , 105,	5.6	13
27	Absorption, distribution and excretion of intravenously injected (68)Ge/ (68)Ga generator eluate in healthy rats, and estimation of human radiation dosimetry. <i>EJNMMI Research</i> , 2015 , 5, 117	3.6	12
26	Renal hemodynamics and fatty acid uptake: effects of obesity and weight loss. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019 , 317, E871-E878	6	12
25	Quantification of liver perfusion with [(15)O]H(2)O-PET and its relationship with glucose metabolism and substrate levels. <i>Journal of Hepatology</i> , 2008 , 48, 974-82	13.4	12
24	Validation of [(11) C]ORM-13070 as a PET tracer for alpha2c -adrenoceptors in the human brain. <i>Synapse</i> , 2015 , 69, 172-81	2.4	10
23	Glucagon-like peptide-1 receptor expression after myocardial infarction: Imaging study using Ga-NODAGA-exendin-4 positron emission tomography. <i>Journal of Nuclear Cardiology</i> , 2020 , 27, 2386-2397 ¹	2.1	9
22	PET imaging of blood flow and glucose metabolism in localized musculoskeletal tumors of the extremities. <i>Nuclear Medicine and Biology</i> , 2011 , 38, 295-300	2.1	8
21	Quantitative brain imaging using the new, fast iterative histogram-mode reconstruction for the HRRT PET scanner 2007 ,		8
20	Assessment of blood flow with (68)Ga-DOTA PET in experimental inflammation: a validation study using (15)O-water. <i>American Journal of Nuclear Medicine and Molecular Imaging</i> , 2014 , 4, 571-9	2.2	8
19	Extraction of input function from rat [18F]FDG PET images. <i>Molecular Imaging and Biology</i> , 2011 , 13, 1241-9	3.8	7
18	Folate receptor-targeted positron emission tomography of experimental autoimmune encephalomyelitis in rats. <i>Journal of Neuroinflammation</i> , 2019 , 16, 252	10.1	7
17	Ga-DOTA chelate, a novel imaging agent for assessment of myocardial perfusion and infarction detection in a rodent model. <i>Journal of Nuclear Cardiology</i> , 2020 , 27, 891-898	2.1	7
16	Brain Cholinergic Function and Response to Rivastigmine in Patients With Chronic Sequels of Traumatic Brain Injury: A PET Study. <i>Journal of Head Trauma Rehabilitation</i> , 2018 , 33, 25-32	3	6
15	Pulmonary blood flow and its distribution in highly trained endurance athletes and healthy control subjects. <i>Journal of Applied Physiology</i> , 2013 , 114, 329-34	3.7	6
14	Noninvasive parametric blood flow imaging of head and neck tumours using [15O]H2O and PET/CT. <i>Nuclear Medicine Communications</i> , 2012 , 33, 1169-78	1.6	6
13	Simultaneous evaluation of myocardial blood flow, cardiac function and lung water content using [15O]H2O and positron emission tomography. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2007 , 34, 563-72	8.8	5
12	Voxel-based NK1 receptor occupancy measurements with [(18)F]SPA-RQ and positron emission tomography: a procedure for assessing errors from image reconstruction and physiological modeling. <i>Molecular Imaging and Biology</i> , 2007 , 9, 284-94	3.8	5
11	Kinetic Modelling of [Ga]Ga-DOTA-Siglec-9 in Porcine Osteomyelitis and Soft Tissue Infections. <i>Molecules</i> , 2019 , 24,	4.8	5

10	Kinetic analysis and optimisation of F-rhPSMA-7.3 PET imaging of prostate cancer. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021 , 48, 3723-3731	8.8	4
9	First-in-Humans Study of Ga-DOTA-Siglec-9, a PET Ligand Targeting Vascular Adhesion Protein 1. <i>Journal of Nuclear Medicine</i> , 2021 , 62, 577-583	8.9	4
8	The renal blood flow reserve in healthy humans and patients with atherosclerotic renovascular disease measured by positron emission tomography using [O]HO. <i>EJNMMI Research</i> , 2018 , 8, 45	3.6	4
7	Cross-validation of input functions obtained by H ¹⁵ O PET imaging of rat heart and a blood flow-through detector. <i>Molecular Imaging and Biology</i> , 2012 , 14, 509-16	3.8	3
6	Evidence for Spatial Heterogeneity in Insulin- and Exercise-Induced Increases in Glucose Uptake: Studies in Normal Subjects and Patients with Type 1 Diabetes		3
5	Renal vascular resistance is increased in patients with kidney transplant. <i>BMC Nephrology</i> , 2019 , 20, 437	2.7	2
4	Comparison of: (2,4)-4-[F]Fluoroglutamine, [C]Methionine, and 2-Deoxy-2-[F]Fluoro--Glucose and Two Small-Animal PET/CT Systems Imaging Rat Gliomas. <i>Frontiers in Oncology</i> , 2021 , 11, 730358	5.3	1
3	Uptake of F-rhPSMA-7.3 in Positron Emission Tomography Imaging of Prostate Cancer: A Phase 1 Proof-of-Concept Study.. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2021 ,	3.9	1
2	ASIC-E4: Interplay of Beta-Amyloid, Synaptic Density and Neuroinflammation in Cognitively Normal Volunteers With Three Levels of Genetic Risk for Late-Onset Alzheimer's Disease - Study Protocol and Baseline Characteristics.. <i>Frontiers in Neurology</i> , 2022 , 13, 826423	4.1	0
1	2089-P: Regional Renal Hemodynamics and Fatty Acid Uptake: Effects of Obesity and Weight Loss. <i>Diabetes</i> , 2019 , 68, 2089-P	0.9	