

Vesa Oikonen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3327863/publications.pdf>

Version: 2024-02-01

100
papers

5,431
citations

94269

37
h-index

85405

71
g-index

105
all docs

105
docs citations

105
times ranked

7184
citing authors

#	ARTICLE	IF	CITATIONS
1	Different Metabolic Responses of Human Brown Adipose Tissue to Activation by Cold and Insulin. <i>Cell Metabolism</i> , 2011, 14, 272-279.	7.2	609
2	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, 603-613.	1.3	342
3	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, 1358-1370.	1.3	254
4	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, 112-118.	2.8	223
5	Effects of Subanesthetic Doses of Ketamine on Regional Cerebral Blood Flow, Oxygen Consumption, and Blood Volume in Humans. <i>Anesthesiology</i> , 2003, 99, 614-623.	1.3	199
6	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, 971-982.	0.4	171
7	Increased Brain Fatty Acid Uptake in Metabolic Syndrome. <i>Diabetes</i> , 2010, 59, 2171-2177.	0.3	165
8	High intensity exercise decreases global brain glucose uptake in humans. <i>Journal of Physiology</i> , 2005, 568, 323-332.	1.3	144
9	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, 1878-1886.	3.3	144
10	Ketamine Anesthesia Increases Cerebral Blood Flow in Excess of the Metabolic Needs in Humans. <i>Anesthesiology</i> , 2005, 103, 258-268.	1.3	143
11	Test-retest reliability of ¹¹ C-ORM-13070 in PET imaging of β -adrenoceptors in vivo in the human brain. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2015, 42, 120-127.	3.3	130
12	Regional Effects of Donepezil and Rivastigmine on Cortical Acetylcholinesterase Activity in Alzheimer's Disease. <i>Journal of Clinical Psychopharmacology</i> , 2002, 22, 615-620.	0.7	122
13	Effects of Subanesthetic Ketamine on Regional Cerebral Glucose Metabolism in Humans. <i>Anesthesiology</i> , 2004, 100, 1065-1071.	1.3	115
14	Quantification of [¹⁸ F]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, 766-772.	2.4	99
15	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-H1517.	1.5	95
16	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-E1130.	1.8	89
17	The Effects of Bariatric Surgery on Pancreatic Lipid Metabolism and Blood Flow. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015, 100, 2015-2023.	1.8	86
18	Prolonged Central μ -Opioid Receptor Occupancy after Single and Repeated Nalmefene Dosing. <i>Neuropsychopharmacology</i> , 2005, 30, 2245-2253.	2.8	80

#	ARTICLE	IF	CITATIONS
19	Quantifying tumour hypoxia with fluorine-18 fluoroerythronitroimidazole ([¹⁸ F]FETNIM) and PET using the tumour to plasma ratio. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2003, 30, 101-108.	3.3	76
20	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, 2055-2060.	1.8	73
21	Measurement of central μ -opioid receptor binding in vivo with PET and [¹¹ C]carfentanil: a test-retest study in healthy subjects. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2009, 36, 275-286.	3.3	67
22	Measurement of Serotonin 5-HT _{1A} Receptor Binding Using Positron Emission Tomography and [¹¹ C]WAY-100635: Considerations on the Validity of Cerebellum as a Reference Region. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2007, 27, 185-195.	2.4	66
23	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, 403-410.	3.3	66
24	Positron emission tomography imaging of the 18-kDa translocator protein (TSPO) with [¹⁸ F]FEMPA in Alzheimer's disease patients and control subjects. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2015, 42, 438-446.	3.3	64
25	Measurement of Striatal and Extrastriatal Dopamine Transporter Binding with High-Resolution PET and [¹¹ C]PE2I: Quantitative Modeling and Test-Retest Reproducibility. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2008, 28, 1059-1069.	2.4	63
26	Effects of Xenon Anesthesia on Cerebral Blood Flow in Humans. <i>Anesthesiology</i> , 2007, 106, 1128-1133.	1.3	57
27	Comparison of MRI and positron emission tomography for measuring myocardial perfusion reserve in healthy humans. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 772-779.	1.9	56
28	Comparison of exogenous adenosine and voluntary exercise on human skeletal muscle perfusion and perfusion heterogeneity. <i>Journal of Applied Physiology</i> , 2010, 108, 378-386.	1.2	56
29	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-R79.	0.9	53
30	Visualization and Quantification of Neurokinin-1 (NK1) Receptors in the Human Brain. <i>Molecular Imaging and Biology</i> , 2005, 7, 262-272.	1.3	51
31	Measurement of extrastriatal D ₂ -like receptor binding with [¹¹ C]FLB 457: a test-retest analysis. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2000, 27, 1666-1673.	3.3	50
32	Pretargeted PET Imaging of <i>trans</i> -Cyclooctene-Modified Porous Silicon Nanoparticles. <i>ACS Omega</i> , 2017, 2, 62-69.	1.6	50
33	Sevoflurane and Propofol Increase [¹¹ C]-Flumazenil Binding to Gamma-Aminobutyric Acid A Receptors in Humans. <i>Anesthesia and Analgesia</i> , 2004, 99, 1420-1426.	1.1	41
34	Whole-body distribution and metabolism of [N-methyl- ¹¹ C](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, 671-682.	3.3	40
35	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, 157-165.	2.4	40
36	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, 1371-1377.	0.3	38

#	ARTICLE	IF	CITATIONS
37	Measurement of GABAA receptor binding in vivo with [11C]Flumazenil: A test-retest study in healthy subjects. <i>NeuroImage</i> , 2008, 41, 260-269.	2.1	38
38	Regulation of human brown adipose tissue by adenosine and A2A receptors – studies with [15O]H ₂ O and [11C]TMSX PET/CT. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2019, 46, 743-750.	3.3	37
39	Defective Liver Disposal of Free Fatty Acids in Patients with Impaired Glucose Tolerance. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2004, 89, 3496-3502.	1.8	36
40	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, 1617-1622.	3.3	35
41	Insulin and Exercise-Stimulated Skeletal Muscle Blood Flow and Glucose Uptake in Obese Men. <i>Obesity</i> , 2003, 11, 257-265.	4.0	35
42	Alfentanil increases cortical dopamine D2/D3 receptor binding in healthy subjects. <i>Pain</i> , 2004, 109, 86-93.	2.0	35
43	Xenon Does Not Affect ¹³ Aminobutyric Acid Type A Receptor Binding in Humans. <i>Anesthesia and Analgesia</i> , 2008, 106, 129-134.	1.1	33
44	Reproducibility of Striatal and Thalamic Dopamine D2 Receptor Binding Using [¹¹ C]raclopride with High-Resolution Positron Emission Tomography. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 155-165.	2.4	33
45	Pancreatic Metabolism, Blood Flow, and ¹² -Cell Function in Obese Humans. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2014, 99, E981-E990.	1.8	33
46	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.	2.5	33
47	¹⁸ F-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.	2.8	33
48	Myocardial blood flow and adenosine A _{2A} receptor density in endurance athletes and untrained men. <i>Journal of Physiology</i> , 2008, 586, 5193-5202.	1.3	32
49	Cannabinoid Type 1 Receptors Are Upregulated During Acute Activation of Brown Adipose Tissue. <i>Diabetes</i> , 2018, 67, 1226-1236.	0.3	32
50	Folate Receptor ¹²⁵ I-Targeted PET Imaging of Macrophages in Autoimmune Myocarditis. <i>Journal of Nuclear Medicine</i> , 2020, 61, 1643-1649.	2.8	31
51	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, 1378-1383.	3.3	29
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, 2146-2153.	1.6	28
53	Perfusion heterogeneity in human skeletal muscle: fractal analysis of PET data. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2001, 28, 450-456.	2.2	28
54	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, 2300-2310.	1.8	28

#	ARTICLE	IF	CITATIONS
55	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.	1.1	26
56	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-E112.	1.8	26
57	Dimeric [68Ga]DOTA-RGD Peptide Targeting $\alpha_5\beta_3$ Integrin Reveals Extracellular Matrix Alterations after Myocardial Infarction. <i>Molecular Imaging and Biology</i> , 2014, 16, 793-801.	1.3	26
58	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.	1.1	26
59	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, 2172-2177.	4.3	25
60	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.	3.3	25
61	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.	1.8	25
62	Parametric Binding Images of the TSPO Ligand ¹⁸ F-DPA-714. <i>Journal of Nuclear Medicine</i> , 2016, 57, 1543-1547.	2.8	23
63	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, 1160-1164.	3.3	22
64	Effects of meal and incretins in the regulation of splanchnic blood flow. <i>Endocrine Connections</i> , 2017, 6, 179-187.	0.8	21
65	Evaluation of 68Ga-labeled tracers for PET imaging of myocardial perfusion in pigs. <i>Nuclear Medicine and Biology</i> , 2012, 39, 715-723.	0.3	20
66	Absorption, distribution and excretion of intravenously injected 68Ge/68Ga generator eluate in healthy rats, and estimation of human radiation dosimetry. <i>EJNMMI Research</i> , 2015, 5, 117.	1.1	20
67	Quantification of [Carbonyl-11C]WAY-100635 binding: considerations on the cerebellum. <i>Nuclear Medicine and Biology</i> , 2000, 27, 483-486.	0.3	19
68	The effect of revascularization of renal artery stenosis on renal perfusion in patients with atherosclerotic renovascular disease. <i>Nephrology Dialysis Transplantation</i> , 2012, 27, 3843-3848.	0.4	19
69	¹⁸ F-Fluoroerythronitroimidazole radiation dosimetry in cancer studies. <i>Journal of Nuclear Medicine</i> , 2002, 43, 1674-80.	2.8	19
70	Cerebral acetylcholinesterase activity is not decreased in MS patients with cognitive impairment. <i>Multiple Sclerosis Journal</i> , 2011, 17, 931-938.	1.4	17
71	Quantification of liver perfusion with [15O]H ₂ O-PET and its relationship with glucose metabolism and substrate levels. <i>Journal of Hepatology</i> , 2008, 48, 974-982.	1.8	16
72	¹¹ C-ORM-13070, a novel PET ligand for brain α_2 -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, 1947-1956.	3.3	16

#	ARTICLE	IF	CITATIONS
73	(2S, 4R)-4-[18F]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.	1.3	16
74	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-E590.	1.8	14
75	Validation of ^{11}C ORM-13070 as a PET tracer for $\alpha_2\text{c}$ -adrenoceptors in the human brain. <i>Synapse</i> , 2015, 69, 172-181.	0.6	14
76	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, 5525-5533.	1.8	13
77	First-in-Humans Study of ^{68}Ga -DOTA-Siglec-9, a PET Ligand Targeting Vascular Adhesion Protein 1. <i>Journal of Nuclear Medicine</i> , 2021, 62, 577-583.	2.8	13
78	Glucagon-like peptide-1 receptor expression after myocardial infarction: Imaging study using ^{68}Ga -NODAGA-exendin-4 positron emission tomography. <i>Journal of Nuclear Cardiology</i> , 2020, 27, 2386-2397.	1.4	12
79	Quantitative brain imaging using the new, fast iterative histogram-mode reconstruction for the HRRT PET scanner. , 2007, , .		11
80	Folate receptor-targeted positron emission tomography of experimental autoimmune encephalomyelitis in rats. <i>Journal of Neuroinflammation</i> , 2019, 16, 252.	3.1	10
81	^{68}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.	1.4	10
82	Kinetic analysis and optimisation of ^{18}F -rhPSMA-7.3 PET imaging of prostate cancer. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 3723-3731.	3.3	10
83	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.	0.3	9
84	Cross-validation of Input Functions Obtained by ^2H ^{15}O PET Imaging of Rat Heart and a Blood Flow-through Detector. <i>Molecular Imaging and Biology</i> , 2012, 14, 509-516.	1.3	9
85	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.	1.0	9
86	Kinetic Modelling of ^{68}Ga -DOTA-Siglec-9 in Porcine Osteomyelitis and Soft Tissue Infections. <i>Molecules</i> , 2019, 24, 4094.	1.7	9
87	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.	1.0	9
88	Noninvasive parametric blood flow imaging of head and neck tumours using ^{15}O -H ₂ O and PET/CT. <i>Nuclear Medicine Communications</i> , 2012, 33, 1169-1178.	0.5	8
89	Simultaneous evaluation of myocardial blood flow, cardiac function and lung water content using ^{15}O -H ₂ O and positron emission tomography. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2007, 34, 563-572.	3.3	7
90	Extraction of Input Function from Rat ^{18}F -FDG PET Images. <i>Molecular Imaging and Biology</i> , 2011, 13, 1241-1249.	1.3	7

#	ARTICLE	IF	CITATIONS
91	Renal vascular resistance is increased in patients with kidney transplant. BMC Nephrology, 2019, 20, 437.	0.8	7
92	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 â€” Study Protocol and Baseline Characteristics. Frontiers in Neurology, 2022, 13, 826423.	1.1	7
93	Pulmonary blood flow and its distribution in highly trained endurance athletes and healthy control subjects. Journal of Applied Physiology, 2013, 114, 329-334.	1.2	6
94	The renal blood flow reserve in healthy humans and patients with atherosclerotic renovascular disease measured by positron emission tomography using [15O]H2O. EJNMMI Research, 2018, 8, 45.	1.1	6
95	Voxel-based NK1 Receptor Occupancy Measurements with [18F]SPA-RQ and Positron Emission Tomography: A Procedure for Assessing Errors from Image Reconstruction and Physiological Modeling. Molecular Imaging and Biology, 2007, 9, 284-294.	1.3	5
96	Evidence for Spatial Heterogeneity in Insulin- and Exercise-Induced Increases in Glucose Uptake: Studies in Normal Subjects and Patients with Type 1 Diabetes. , 0, .		3
97	Comparison of: (2S,4R)-4-[18F]Fluoroglutamine, [11C]Methionine, and 2-Deoxy-2-[18F]Fluoro-D-Glucose and Two Small-Animal PET/CT Systems Imaging Rat Gliomas. Frontiers in Oncology, 2021, 11, 730358.	1.3	3
98	Uptake of ¹⁸ F-rhPSMA-7.3 in Positron Emission Tomography Imaging of Prostate Cancer: A Phase 1 Proof-of-Concept Study. Cancer Biotherapy and Radiopharmaceuticals, 2022, 37, 205-213.	0.7	3
99	[P083] Kinetic modelling of [68Ga]Ga-DOTA-Siglec-9 in a porcine infection model. Physica Medica, 2018, 52, 124-125.	0.4	1
100	2089-P: Regional Renal Hemodynamics and Fatty Acid Uptake: Effects of Obesity and Weight Loss. Diabetes, 2019, 68, 2089-P.	0.3	0