Yuichi Kimura

List of Publications by Year
in descending order

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65 papers	3,437 citations	218677 26 h-index	149698 56 g-index
67 all docs	67 docs citations	67 times ranked	3492 citing authors

#	Article	IF	Citations
1	Consensus Nomenclature for in vivo Imaging of Reversibly Binding Radioligands. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 1533-1539.	4.3	1,840
2	PET kinetic analysisâ€"compartmental model. Annals of Nuclear Medicine, 2006, 20, 583-588.	2.2	164
3	High Occupancy of Sigma-1 Receptors in the Human Brain after Single Oral Administration of Fluvoxamine: A Positron Emission Tomography Study Using [11C]SA4503. Biological Psychiatry, 2007, 62, 878-883.	1.3	122
4	Extraction of a Plasma Time-Activity Curve From Dynamic Brain PET Images Based on Independent Component Analysis. IEEE Transactions on Biomedical Engineering, 2005, 52, 201-210.	4.2	107
5	Evaluation of distribution of adenosine A2A receptors in normal human brain measured with [11C]TMSX PET. Synapse, 2007, 61, 778-784.	1.2	67
6	High occupancy of Ïƒ1 receptors in the human brain after single oral administration of donepezil: a positron emission tomography study using [11C]SA4503. International Journal of Neuropsychopharmacology, 2009, 12, 1127.	2.1	63
7	Improved Signal-to-Noise Ratio in Parametric Images by Cluster Analysis. NeuroImage, 1999, 9, 554-561.	4.2	62
8	Mapping of human cerebral sigma1 receptors using positron emission tomography and [11C]SA4503. NeuroImage, 2007, 35, 1-8.	4.2	56
9	First visualization of adenosine A2A receptors in the human brain by positron emission tomography with [11C]TMSX. Synapse, 2005, 55, 133-136.	1.2	54
10	Regional differences in blood flow and oxygen consumption in resting muscle and their relationship during recovery from exhaustive exercise. Journal of Applied Physiology, 2003, 95, 2204-2210.	2.5	53
11	Visualization of AMPA receptors in living human brain with positron emission tomography. Nature Medicine, 2020, 26, 281-288.	30.7	50
12	Adenosine A1 receptors using 8-dicyclopropylmethyl-1-[11C]methyl-3-propylxanthine PET in Alzheimerâ€™s disease. Annals of Nuclear Medicine, 2008, 22, 841-847.	2.2	44
13	PET kinetic analysis â€"Pitfalls and a solution for the Logan plot. Annals of Nuclear Medicine, 2007, 21, 1-8.	2.2	39
14	Mapping of CNS sigma1 receptors in the conscious monkey: Preliminary PET study with [11C]SA4503. Synapse, 2001, 40, 235-237.	1.2	37
15	Quantitative analysis of adenosine A1 receptors in human brain using positron emission tomography and [1 -methyl-11C]8-dicyclopropylmethyl-1-methyl-3-propylxanthine. Nuclear Medicine and Biology, 2004, 31, 975-981.	0.6	35
16	Greater adenosine A2A receptor densities in cardiac and skeletal muscle in endurance-trained men: a [11C]TMSX PET study. Nuclear Medicine and Biology, 2005, 32, 831-836.	0.6	35
17	Imaging of adenosine A1 receptors in the human brain by positron emission tomography with [11C]MPDX. Annals of Nuclear Medicine, 2003, 17, 511-515.	2.2	34
18	A feasibility study of [11C]SA4503-PET for evaluating sigma1 receptor occupancy by neuroleptics: The binding of haloperidol to sigma1 and dopamine D2-like receptors. Annals of Nuclear Medicine, 2006, 20, 569-573.	2.2	33

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19	PET kinetic analysis: wavelet denoising of dynamic PET data with application to parametric imaging. Annals of Nuclear Medicine, 2007, 21, 379-386.	2.2	31
20	Quantification of adenosine A2A receptors in the human brain using [11C]TMSX and positron emission tomography. European Journal of Nuclear Medicine and Molecular Imaging, 2007, 34, 679-687.	6.4	30
21	Omission of serial arterial blood sampling in neuroreceptor imaging with independent component analysis. NeuroImage, 2005, 26, 885-890.	4.2	29
22	Automatic diagnosis of melanoma using hyperspectral data and GoogLeNet. Skin Research and Technology, 2020, 26, 891-897.	1.6	29
23	A review on AI in PET imaging. Annals of Nuclear Medicine, 2022, 36, 133-143.	2.2	29
24	Preclinical studies on [11C]TMSX for mapping adenosine A2A receptors by positron emission tomography. Annals of Nuclear Medicine, 2003, 17, 205-211.	2.2	28
25	PET kinetic analysis: error consideration of quantitative analysis in dynamic studies. Annals of Nuclear Medicine, 2008, 22, 1-11.	2.2	28
26	Potential of an adenosine A2A receptor antagonist [11C]TMSX for myocardial imaging by positron emission tomography: a first human study. Annals of Nuclear Medicine, 2003, 17, 457-462.	2.2	27
27	Preclinical studies on [11C]MPDX for mapping adenosine A1 receptors by positron emission tomography. Annals of Nuclear Medicine, 2002, 16, 377-382.	2.2	25
28	The Use of Positron Emission Tomography and $[^{18}{m F}]$Fluorodeoxyglucose for Functional Imaging of Muscular Activity During Exercise With a Stride Assistance System. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2007, 15, 442-448.	4.9	23
29	Performance of ¹¹C-Pittsburgh Compound B PET Binding Potential Images in the Detection of Amyloid Deposits on Equivocal Static Images. Journal of Nuclear Medicine, 2015, 56, 1910-1915.	5.0	20
30	Robust estimation of the arterial input function for Logan plots using an intersectional searching algorithm and clustering in positron emission tomography for neuroreceptor imaging. NeuroImage, 2008, 40, 26-34.	4.2	19
31	Differential effects of age on human striatal adenosine A₁ and A_{2A} receptors. Synapse, 2012, 66, 832-839.	1.2	18
32	Distribution volume as an alternative to the binding potential for sigma1 receptor imaging. Annals of Nuclear Medicine, 2007, 21, 533-535.	2.2	17
33	Adenosine A₁receptors measured with¹¹C-MPDX PET in early Parkinson's disease. Synapse, 2017, 71, e21979.	1.2	16
34	Wavelet denoising for voxel-based compartmental analysis of peripheral benzodiazepine receptors with 18F-FEDAA1106. European Journal of Nuclear Medicine and Molecular Imaging, 2008, 35, 416-423.	6.4	15
35	Potential of [11C]TMSX for the evaluation of adenosine A2A receptors in the skeletal muscle by positron emission tomography. Nuclear Medicine and Biology, 2004, 31, 949-956.	0.6	14
36	Shortened protocol in practical [11C]SA4503-PET studies for sigma1 receptor quantification. Annals of Nuclear Medicine, 2008, 22, 143-146.	2.2	13

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37	Development of PET radiopharmaceuticals and their clinical applications at the Positron Medical Center. Geriatrics and Gerontology International, 2010, 10, S180-96.	1.5	12
38	MAP-based kinetic analysis for voxel-by-voxel compartment model estimation: Detailed imaging of the cerebral glucose metabolism using FDG. NeuroImage, 2006, 29, 1203-1211.	4.2	11
39	Successive positron emission tomography measurement of cerebral blood flow and neuroreceptors in the human brain: an 11C-SA4503 study. Annals of Nuclear Medicine, 2008, 22, 411-416.	2.2	10
40	AI approach of cycle-consistent generative adversarial networks to synthesize PET images to train computer-aided diagnosis algorithm for dementia. Annals of Nuclear Medicine, 2020, 34, 512-515.	2.2	10
41	Age-Related Decrease in Male Extra-Striatal Adenosine A1 Receptors Measured Using11C-MPDX PET. Frontiers in Pharmacology, 2017, 8, 903.	3.5	9
42	Improvement of likelihood estimation in Logan graphical analysis using maximum a posteriori for neuroreceptor PET imaging. Annals of Nuclear Medicine, 2009, 23, 163-171.	2.2	8
43	Novel system using microliter order sample volume for measuring arterial radioactivity concentrations in whole blood and plasma for mouse PET dynamic study. Physics in Medicine and Biology, 2013, 58, 7889-7903.	3.0	8
44	Generative image transformer (GIT): unsupervised continuous image generative and transformable model for [123I]FP-CIT SPECT images. Annals of Nuclear Medicine, 2021, 35, 1203-1213.	2.2	8
45	Temporal and spatial blood information estimation using Bayesian ICA in dynamic cerebral positron emission tomography. , 2007, 17, 979-993.		7
46	Quantitative measurement of changes in calcium channel activity in vivo utilizing dynamic manganese-enhanced MRI (dMEMRI). NeuroImage, 2012, 60, 392-399.	4.2	6
47	Quantitative cosmetic evaluation of longâ€lasting foundation using multispectral imaging. Skin Research and Technology, 2019, 25, 318-324.	1.6	6
48	Regional Differences in Blood Volume and Blood Transit Time in Resting Skeletal Muscle. The Japanese Journal of Physiology, 2003, 53, 467-470.	0.9	6
49	Increased Adenosine A1 Receptor Levels in Hemianopia Patients After Cerebral Injury. Clinical Nuclear Medicine, 2012, 37, 1146-1151.	1.3	4
50	Relationship between F-18 florbetapir uptake in occipital lobe and neurocognitive performance in Alzheimerâ€™s disease. Japanese Journal of Radiology, 2021, 39, 984-993.	2.4	4
51	Performance Improvement of Automated Melanoma Diagnosis System by Data Augmentation. Advanced Biomedical Engineering, 2020, 9, 62-70.	0.6	4
52	Omission of serial arterial blood sampling for quantitative analysis of monkey PET data using independent component analysis-based method. , 2007, , .		3
53	Regional gray matter-dedicated SUVR with 3D-MRI detects positive amyloid deposits in equivocal amyloid PET images. Annals of Nuclear Medicine, 2020, 34, 856-863.	2.2	3
54	A strategy to account for noise in the X-variable to reduce underestimation in Logan graphical analysis for quantifying receptor density in positron emission tomography. BMC Medical Imaging, 2020, 20, 15.	2.7	3

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55	Parametric PET Image Reconstruction via Regional Spatial Bases and Pharmacokinetic Time Activity Model. Entropy, 2017, 19, 629.	2.2	2
56	Automatic delineation algorithm of reference region for amyloid imaging based on kinetics. Annals of Nuclear Medicine, 2020, 34, 102-107.	2.2	2
57	Improving contrast between gray and white matter of Logan graphical analysisâ€™ parametric images in positron emission tomography through least-squares cubic regression and principal component analysis. Biomedical Physics and Engineering Express, 2021, 7, 035003.	1.2	2
58	Supervised clustering approach to form functional images in positron emission tomography. , 2004, 2004, 1896-8.		1
59	Formation of parametric images with statistical clustering. International Congress Series, 2004, 1265, 25-30.	0.2	1
60	Imaging detailed glucose metabolism in the brain using MAP estimation in Positron Emission Tomography. , 2005, 2005, 4477-9.		1
61	Human Brain Imaging of Adenosine Receptors. , 2014, , 161-186.		0
62	Validation of a Fast Block-Iterative Spatio-temporal Reconstruction Algorithm for Small Animal Dynamic PET Data. Advanced Biomedical Engineering, 2014, 3, 7-13.	0.6	0
63	Microliter-ordered automatic blood sampling system for fully quantitative analysis of small-animal PET. Annals of Nuclear Medicine, 2019, 33, 586-593.	2.2	0
64	Integrating Bio-metabolism and Structural Changes for the Diagnosis of Dementia. , 2022, , 169-172.		0
65	Application of correlated component analysis to dynamic PET time-activity curves denoising. , 2021, 2021, 3680-3683.		0