

Ing-Tsung Hsiao

List of Publications by Year in descending order

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121
papers

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citations

236925

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124
all docs

124
docs citations

124
times ranked

3107
citing authors

#	ARTICLE	IF	CITATIONS
1	Whole-body biodistribution and brain PET imaging with [¹⁸ F]AV-45, a novel amyloid imaging agent – a pilot study. Nuclear Medicine and Biology, 2010, 37, 497-508.	0.6	116
2	Correlation of early-phase 18F-florbetapir (AV-45/Amyvid) PET images to FDG images: preliminary studies. European Journal of Nuclear Medicine and Molecular Imaging, 2012, 39, 613-620.	6.4	106
3	Correlation of Parkinson Disease Severity and ¹⁸ F-DTBZ Positron Emission Tomography. JAMA Neurology, 2014, 71, 758.	9.0	100
4	Increased brain amyloid deposition in patients with a lifetime history of major depression: evidenced on 18F-florbetapir (AV-45/Amyvid) positron emission tomography. European Journal of Nuclear Medicine and Molecular Imaging, 2014, 41, 714-722.	6.4	95
5	The healing of critical-sized femoral segmental bone defects in rabbits using baculovirus-engineered mesenchymal stem cells. Biomaterials, 2010, 31, 3222-3230.	11.4	84
6	Title is missing!. Journal of Mathematical Imaging and Vision, 2000, 12, 199-217.	1.3	71
7	Whole-Body Biodistribution and Radiation Dosimetry of ¹⁸ F-FP-(+)-DTBZ (¹⁸ F-AV-133): A Novel Vesicular Monoamine Transporter 2 Imaging Agent. Journal of Nuclear Medicine, 2010, 51, 1480-1485.	5.0	60
8	<title>Analytical noise treatment for low-dose CT projection data by penalized weighted least-square smoothing in the K-L domain</title>. , 2002, 4682, 146.		56
9	Study-specific EPI template improves group analysis in functional MRI of young and older adults. Journal of Neuroscience Methods, 2010, 189, 257-266.	2.5	56
10	An accelerated convergent ordered subsets algorithm for emission tomography. Physics in Medicine and Biology, 2004, 49, 2145-2156.	3.0	54
11	GMP-compliant automated synthesis of [¹⁸ F]AV-45 (Florbetapir F 18) for imaging β^2 -amyloid plaques in human brain. Applied Radiation and Isotopes, 2010, 68, 2293-2297.	1.5	54
12	A new convex edge-preserving median prior with applications to tomography. IEEE Transactions on Medical Imaging, 2003, 22, 580-585.	8.9	53
13	In Vivo Detection of Monoaminergic Degeneration in Early Parkinson Disease by ¹⁸ F-9-Fluoropropyl-(+)-Dihydrotetrabenzazine PET. Journal of Nuclear Medicine, 2014, 55, 73-79.	5.0	48
14	Amyloid deposition after cerebral hypoperfusion: Evidenced on [¹⁸ F]AV-45 positron emission tomography. Journal of the Neurological Sciences, 2012, 319, 124-129.	0.6	44
15	Regional Amyloid Deposition in Amnesic Mild Cognitive Impairment and Alzheimer's Disease Evaluated by [¹⁸ F]AV-45 Positron Emission Tomography in Chinese Population. PLoS ONE, 2013, 8, e58974.	2.5	44
16	Accumulation of amyloid in cognitive impairment after mild traumatic brain injury. Journal of the Neurological Sciences, 2015, 349, 99-104.	0.6	43
17	Ultrasound temperature estimation based on probability variation of backscatter data. Medical Physics, 2012, 39, 2369-2385.	3.0	42
18	Imaging characteristic of dual-phase 18F-florbetapir (AV-45/Amyvid) PET for the concomitant detection of perfusion deficits and beta-amyloid deposition in Alzheimer's disease and mild cognitive impairment. European Journal of Nuclear Medicine and Molecular Imaging, 2016, 43, 1304-1314.	6.4	41

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19	Perfusion-like template and standardized normalization-based brain image analysis using 18F-florbetapir (AV-45/Amyvid) PET. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2013, 40, 908-920.	6.4	35
20	Brain imaging and cognition in young narcoleptic patients. <i>Sleep Medicine</i> , 2016, 24, 137-144.	1.6	34
21	Joint-MAP Bayesian tomographic reconstruction with a gamma-mixture prior. <i>IEEE Transactions on Image Processing</i> , 2002, 11, 1466-1477.	9.8	33
22	Different FDGâ€PET metabolic patterns of antiâ€AMPA and antiâ€NMDAR encephalitis: Case report and literature review. <i>Brain and Behavior</i> , 2020, 10, e01540.	2.2	32
23	Beta-amyloid deposition and cognitive function in patients with major depressive disorder with different subtypes of mild cognitive impairment: 18F-florbetapir (AV-45/Amyvid) PET study. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2016, 43, 1067-1076.	6.4	31
24	Beta-amyloid deposition in patients with major depressive disorder with differing levels of treatment resistance: a pilot study. <i>EJNMMI Research</i> , 2017, 7, 24.	2.5	31
25	Quantitative micro-SPECT/CT for detecting focused ultrasound-induced bloodâ€brain barrier opening in the rat. <i>Nuclear Medicine and Biology</i> , 2009, 36, 853-861.	0.6	28
26	Characterization of 18F-PM-PBB3 (18F-APN-1607) Uptake in the rTg4510 Mouse Model of Tauopathy. <i>Molecules</i> , 2020, 25, 1750.	3.8	26
27	Brain Imaging of Vesicular Monoamine Transporter Type 2 in Healthy Aging Subjects by 18F-FP-(+)-DTBZ PET. <i>PLoS ONE</i> , 2013, 8, e75952.	2.5	26
28	A globally convergent regularized ordered-subset EM algorithm for list-mode reconstruction. <i>IEEE Transactions on Nuclear Science</i> , 2004, 51, 719-725.	2.0	25
29	Brain SPECT imaging and whole-body biodistribution with [123I]ADAM â€ a serotonin transporter radiotracer in healthy human subjects. <i>Nuclear Medicine and Biology</i> , 2006, 33, 193-202.	0.6	25
30	Optimal scanning time window for 18F-FP-(+)-DTBZ (18F-AV-133) summed uptake measurements. <i>Nuclear Medicine and Biology</i> , 2011, 38, 1149-1155.	0.6	25
31	A new convergent MAP reconstruction algorithm for emission tomography using ordered subsets and separable surrogates. , 0, , .		24
32	Rapid calculation of detectability in Bayesian single photon emission computed tomography. <i>Physics in Medicine and Biology</i> , 2003, 48, 3755-3773.	3.0	24
33	Animal PET for Thioacetamide-Induced Rat Cholangiocarcinoma: A Novel and Reliable Platform. <i>Molecular Imaging and Biology</i> , 2008, 10, 209-216.	2.6	23
34	(R1441C) LRRK2 induces the degeneration of SN dopaminergic neurons and alters the expression of genes regulating neuronal survival in a transgenic mouse model. <i>Experimental Neurology</i> , 2016, 275, 104-115.	4.1	23
35	Diversity of neurodegenerative pathophysiology in nondemented patients with major depressive disorder: Evidence of cerebral amyloidosis and hippocampal atrophy. <i>Brain and Behavior</i> , 2018, 8, e01016.	2.2	23
36	Neurocognition, sleep, and PET findings in type 2 vs type 1 narcolepsy. <i>Neurology</i> , 2018, 90, e1478-e1487.	1.1	22

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37	Potential usefulness of ⁶⁸ Ga-citrate PET/CT in detecting infected lower limb prostheses. EJNMMI Research, 2019, 9, 2.	2.5	22
38	Biodistribution and Radiation Dosimetry for the Tau Tracer ¹⁸ F-THK-5351 in Healthy Human Subjects. Journal of Nuclear Medicine, 2017, 58, 1498-1503.	5.0	21
39	New Digital Plug and Imaging Sensor for a Proton Therapy Monitoring System Based on Positron Emission Tomography. Sensors, 2018, 18, 3006.	3.8	21
40	Plasma amyloid assay as a pre-screening tool for amyloid positron emission tomography imaging in early-stage Alzheimer's disease. Alzheimer's Research and Therapy, 2019, 11, 111.	6.2	21
41	Quantitative analysis of the therapeutic effect of magnolol on MPTP-induced mouse model of Parkinson's disease using in vivo ¹⁸ F-9-fluoropropyl-(+)-dihydrotrabenazine PET imaging. PLoS ONE, 2017, 12, e0173503.	2.5	21
42	Provably convergent OSEM-like reconstruction algorithm for emission tomography. , 2002, , .		20
43	Comparison of ^{99m} Tc-TRODAT-1 SPECT and ¹⁸ F-AV-133 PET imaging in healthy controls and Parkinson's disease patients. Nuclear Medicine and Biology, 2014, 41, 322-329.	0.6	20
44	The Imaging Features and Clinical Associations of a Novel Tau PET Tracer ¹⁸ F-APN1607 in Alzheimer Disease. Clinical Nuclear Medicine, 2020, 45, 747-756.	1.3	20
45	A Novel Individual Metabolic Brain Network for ¹⁸ F-FDG PET Imaging. Frontiers in Neuroscience, 2020, 14, 344.	2.8	18
46	Noise propagation from attenuation correction into PET reconstructions. IEEE Transactions on Nuclear Science, 2002, 49, 90-97.	2.0	17
47	Use of a LYSO-based Compton camera for prompt gamma range verification in proton therapy. Medical Physics, 2017, 44, 6261-6269.	3.0	17
48	The thin plate as a regularizer in Bayesian SPECT reconstruction. IEEE Transactions on Nuclear Science, 1997, 44, 1381-1387.	2.0	16
49	Improved hepatocyte function of future liver remnant of cirrhotic rats after portal vein ligation: A bonus other than volume shifting. Surgery, 2009, 145, 202-211.	1.9	15
50	Quantitative analysis of binding sites for ⁹ F-fluoropropyl-(+)-dihydrotrabenazine (¹⁸ F-AV-133) in a MPTP-lesioned PD mouse model. Synapse, 2012, 66, 823-831.	1.2	15
51	¹⁸ F-FP-(+)-DTBZ positron emission tomography detection of monoaminergic deficient network in patients with carbon monoxide related parkinsonism. European Journal of Neurology, 2015, 22, 845.	3.3	15
52	Plasmon-Activated Water Reduces Amyloid Burden and Improves Memory in Animals with Alzheimer's Disease. Scientific Reports, 2019, 9, 13252.	3.3	15
53	An accelerated ordered subsets reconstruction algorithm using an accelerating power factor for emission tomography. Physics in Medicine and Biology, 2010, 55, 599-614.	3.0	13
54	Everyday cognition scales are related to cognitive function in the early stage of probable Alzheimer's disease and FDG-PET findings. Scientific Reports, 2017, 7, 1719.	3.3	13

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55	Quantitative study of 18F-(+)-DTBZ image: comparison of PET template-based and MRI based image analysis. <i>Scientific Reports</i> , 2018, 8, 16027.	3.3	13
56	Characteristic patterns of inter- and intra-hemispheric metabolic connectivity in patients with stable and progressive mild cognitive impairment and Alzheimer's disease. <i>Scientific Reports</i> , 2018, 8, 13807.	3.3	13
57	[18F]FP-(+)-DTBZ PET study in a lactacystin-treated rat model of Parkinson disease. <i>Annals of Nuclear Medicine</i> , 2017, 31, 506-513.	2.2	12
58	Visualization of ischemic stroke-related changes on 18F-THK-5351 positron emission tomography. <i>EJNMMI Research</i> , 2018, 8, 62.	2.5	12
59	Bayesian image reconstruction for transmission tomography using deterministic annealing. <i>Journal of Electronic Imaging</i> , 2003, 12, 7.	0.9	11
60	An overview of fast convergent ordered-subsets reconstruction methods for emission tomography based on the incremental EM algorithm. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 569, 429-433.	1.6	11
61	Impaired liver regeneration of steatotic rats after portal vein ligation: A particular emphasis on 99mTc-DISIDA scintigraphy and adiponectin signaling. <i>Journal of Hepatology</i> , 2010, 52, 540-549.	3.7	11
62	Amyloid PET pattern with dementia and amyloid angiopathy in Taiwan familial AD with D678H APP mutation. <i>Journal of the Neurological Sciences</i> , 2019, 398, 107-116.	0.6	11
63	Accelerating an Ordered-Subset Low-Dose X-Ray Cone Beam Computed Tomography Image Reconstruction with a Power Factor and Total Variation Minimization. <i>PLoS ONE</i> , 2016, 11, e0153421.	2.5	11
64	Chronic manganese: A long-term follow-up study with a new dopamine terminal biomarker of 18F-FP-(+)-DTBZ (18F-AV-133) brain PET scan. <i>Journal of the Neurological Sciences</i> , 2015, 353, 102-106.	0.6	10
65	Correlation between visual association memory test and structural changes in patients with Alzheimer's disease and amnesic mild cognitive impairment. <i>Journal of the Formosan Medical Association</i> , 2019, 118, 1325-1332.	1.7	10
66	18F-THK5351 PET imaging in patients with progressive supranuclear palsy: associations with core domains and diagnostic certainty. <i>Scientific Reports</i> , 2020, 10, 19410.	3.3	10
67	Tau PET With 18F-THK-5351 Taiwan Patients With Familial Alzheimer's Disease With the APP p.D678H Mutation. <i>Frontiers in Neurology</i> , 2019, 10, 503.	2.4	9
68	The Feasibility of Differentiating Lewy Body Dementia and Alzheimer's Disease by Deep Learning Using ECD SPECT Images. <i>Diagnostics</i> , 2021, 11, 2091.	2.6	8
69	Joint-MAP reconstruction/segmentation for transmission tomography using mixture-models as priors. , 0, , .		7
70	Image reconstructions from limit views and angle coverage data for a stationary multi-pinhole SPECT system. <i>Tsinghua Science and Technology</i> , 2010, 15, 44-49.	6.1	7
71	Dual-phase 18 F-florbetapir positron emission tomography in patients with primary progressive aphasia, Alzheimer's disease, and healthy controls: A preliminary study. <i>Journal of the Formosan Medical Association</i> , 2017, 116, 964-972.	1.7	7
72	Amyloid plaque imaging from IMPY/SPECT to AV-45/PET. <i>Biomedical Journal</i> , 2012, 35, 211.	3.1	7

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73	Impact of Three-Month Androgen Deprivation Therapy on [68Ga]Ga-PSMA-11 PET/CT Indices in Men with Advanced Prostate Cancer—Results from a Pilot Prospective Study. <i>Cancers</i> , 2022, 14, 1329.	3.7	7
74	Selective averaging for the diffusion tensor measurement. <i>Magnetic Resonance Imaging</i> , 2005, 23, 585-590.	1.8	6
75	New Ray-Driven System Matrix for Small-Animal Pinhole-SPECT with Detector Blur, Geometric Response and Edge Penetration Modeling. , 2006, , .		6
76	Study of onset time-shift and injection duration in DCE-MRI: a comparison of a reference region model with the general kinetic model. <i>NMR in Biomedicine</i> , 2010, 23, 375-381.	2.8	6
77	Investigation of reactive astrogliosis effect on post-stroke cognitive impairment. <i>Journal of Neuroinflammation</i> , 2020, 17, 308.	7.2	6
78	Analytic calculation of multi-pinhole collimator sensitivity with tilted pinholes. , 2008, , .		5
79	Noninvasive monitoring of tumor growth in a rat glioma model: comparison between neurological assessment and animal imaging. <i>Journal of Neuro-Oncology</i> , 2011, 104, 669-678.	2.9	5
80	Effective Anatomical Priors for Emission Tomographic Reconstruction. <i>Journal of Medical and Biological Engineering</i> , 2015, 35, 52-61.	1.8	5
81	Plasma A β 2 analysis using magnetically-labeled immunoassays and PET 18F-florbetapir binding in non-demented patients with major depressive disorder. <i>Scientific Reports</i> , 2018, 8, 2739.	3.3	5
82	Detection of Alzheimer's disease using ECD SPECT images by transfer learning from FDG PET. <i>Annals of Nuclear Medicine</i> , 2021, 35, 889-899.	2.2	5
83	First Results From All-Digital PET Dual Heads for In-Beam Beam-On Proton Therapy Monitoring. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2021, 5, 775-782.	3.7	5
84	Progress of Brain Amyloid Deposition in Familial Alzheimer's Disease with Taiwan D678H APP Mutation. <i>Journal of Alzheimer's Disease</i> , 2018, 66, 775-787.	2.6	4
85	Early-phase 18F-AV-45 PET Imaging can Detect Crossed Cerebellar Diaschisis Following Carotid Artery Stenosis and Cerebral Hypoperfusion. <i>Current Neurovascular Research</i> , 2017, 14, 258-265.	1.1	4
86	Comparisons of vesicular monoamine transporter type 2 signals in Parkinson's disease and parkinsonism secondary to carbon monoxide poisoning. <i>NeuroToxicology</i> , 2022, 88, 178-186.	3.0	4
87	Decreased Cerebral Amyloid- β 2 Depositions in Patients With a Lifetime History of Major Depression With Suspected Non-Alzheimer Pathophysiology. <i>Frontiers in Aging Neuroscience</i> , 0, 14, .	3.4	4
88	<title>Autoradiographic-based phantoms for emission tomography</title>. , 1997, 3034, 403.		3
89	<title>Bayesian image reconstruction for transmission tomography using mixture model priors and deterministic annealing algorithms</title>. , 2001, , .		3
90	An accurate and efficient system model of iterative image reconstruction in high-resolution pinhole SPECT for small animal research. <i>Journal of Instrumentation</i> , 2009, 4, P06007-P06007.	1.2	3

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91	System matrix based on sensitivity model for small animal multi-pinhole SPECT system. , 2010, , .		3
92	Different positron emission tomography findings in schizophrenia and narcolepsy type 1 in adolescents and young adults: a preliminary study. Journal of Clinical Sleep Medicine, 2021, 17, 739-748.	2.6	3
93	<title>Quantitative effects of using thin-plate priors in Bayesian SPECT reconstruction</title>. , 1997, , .		2
94	A system model for pinhole SPECT simulating edge penetration, detector, and pinhole response and non-uniform attenuation. , 2007, , .		2
95	A voxel-driven system matrix design for multipinhole SPECT with overlapping projection. , 2009, , .		2
96	Acceleration of MAP-EM algorithm via over-relaxation. Computerized Medical Imaging and Graphics, 2015, 40, 100-107.	5.8	2
97	Neurodegeneration and Vascular Burden on Cognition After Midlife: A Plasma and Neuroimaging Biomarker Study. Frontiers in Human Neuroscience, 2021, 15, 735063.	2.0	2
98	Performance comparison of smoothing and gamma priors for transmission tomography. , 0, , .		1
99	A novel model of the geometric and detector response for limited angular sampling pinhole SPECT. , 2006, , .		1
100	On the convergence of iterative ordered-subset algorithms in small animal PET. , 2008, , .		1
101	Effect of geometric models on convergence rate in iterative PET image reconstructions. Journal of Instrumentation, 2009, 4, P05010-P05010.	1.2	1
102	Performance evaluation on reconstructions in a stationary multi-pinhole SPECT. , 2009, , .		1
103	Metal artifact correction methods in CT. , 2009, , .		1
104	Fast iterative reconstructions for animal CT. Journal of Instrumentation, 2009, 4, P06017-P06017.	1.2	1
105	A fast OS-type Bayesian reconstruction with an edge-preserving median prior. Journal of Instrumentation, 2009, 4, P07012-P07012.	1.2	1
106	AN ADDITIVE POISSON DATA MODELING OF ATTENUATION MAP RECONSTRUCTION FROM POST-INJECTION POSITRON EMISSION TOMOGRAPHY TRANSMISSION SCAN. Biomedical Engineering - Applications, Basis and Communications, 2010, 22, 177-184.	0.6	1
107	Accelerated MAP reconstructions using an accelerated factor. , 2010, , .		1
108	Use of anatomical information in a Bayesian reconstruction with an edge-preserving median prior. , 2012, , .		1

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109	Correlation of early-phase 18F-florbetapir (AV-45/Amyvid) PET images to FDG images: preliminary studies: reply to Ballinger. European Journal of Nuclear Medicine and Molecular Imaging, 2012, 39, 1513-1513.	6.4	1
110	The Investigation on Emission Reconstruction on Fewer View Projections for Brain SPECT Imaging. , 0, , .		0
111	A median prior for tomographic reconstruction. , 0, , .		0
112	A fast convergent ordered subset bayesian reconstruction for emission tomography. , 0, , .		0
113	A voxel-based partial volume correction in nuclear medicine. , 2006, , .		0
114	A new dynamic SPECT quantification method for conventional rotating camera systems and a step-and-shot protocol. , 2008, , .		0
115	Study on analytical system matrix constructions for a stationary multipinhole SPECT system. , 2011, , .		0
116	An efficient voxel-driven system model for helical pinhole SPECT. , 2011, , .		0
117	AN EFFICIENT SENSITIVITY CALCULATION OF TILTED APERTURES FOR PRECLINICAL MULTI-PINHOLE SPECT. Biomedical Engineering - Applications, Basis and Communications, 2015, 27, 1550006.	0.6	0
118	P4â€³38: Human Biodistribution and Radiation Dosimetry for the TAU Tracer ¹⁸Fâ€³THKâ€³5351. Alzheimer's and Dementia, 2016, 12, P1164.	0.8	0
119	Combining Acceleration Techniques for Low-Dose X-Ray Cone Beam Computed Tomography Image Reconstruction. BioMed Research International, 2017, 2017, 1-10.	1.9	0
120	Measurement of Proton Beam Generated \hat{I}^2+ Radioactivity by Use of All-digital PET Detectors. , 2017, , .		0
121	A new in-beam proton therapy monitoring system based on digital MVT readout. , 2018, , .		0