Ing-Tsung Hsiao

List of Publications by Year
in descending order

121 papers	**2,271** citations	236925 **25** h-index	276875 **41** g-index
124 all docs	**124** docs citations	**124** times ranked	**3107** citing authors

#	Article	IF	Citations
1	Comparisons of vesicular monoamine transporter type 2 signals in Parkinson's disease and parkinsonism secondary to carbon monoxide poisoning. NeuroToxicology, 2022, 88, 178-186.	3.0	4
2	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. Cancers, 2022, 14, 1329.	3.7	7
3	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
4	Detection of Alzheimer's disease using ECD SPECT images by transfer learning from FDG PET. Annals of Nuclear Medicine, 2021, 35, 889-899.	2.2	5
5	First Results From All-Digital PET Dual Heads for In-Beam Beam-On Proton Therapy Monitoring. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 775-782.	3.7	5
6	The Feasibility of Differentiating Lewy Body Dementia and Alzheimer's Disease by Deep Learning Using ECD SPECT Images. Diagnostics, 2021, 11, 2091.	2.6	8
7	Neurodegeneration and Vascular Burden on Cognition After Midlife: A Plasma and Neuroimaging Biomarker Study. Frontiers in Human Neuroscience, 2021, 15, 735063.	2.0	2
8	The Imaging Features and Clinical Associations of a Novel Tau PET Tracer—18F-APN1607 in Alzheimer Disease. Clinical Nuclear Medicine, 2020, 45, 747-756.	1.3	20
9	Investigation of reactive astrogliosis effect on post-stroke cognitive impairment. Journal of Neuroinflammation, 2020, 17, 308.	7.2	6
10	18F-THK5351 PET imaging in patients with progressive supranuclear palsy: associations with core domains and diagnostic certainty. Scientific Reports, 2020, 10, 19410.	3.3	10
11	A Novel Individual Metabolic Brain Network for 18F-FDG PET Imaging. Frontiers in Neuroscience, 2020, 14, 344.	2.8	18
12	Characterization of 18F-PM-PBB3 (18F-APN-1607) Uptake in the rTg4510 Mouse Model of Tauopathy. Molecules, 2020, 25, 1750.	3.8	26
13	Different FDG‐PET metabolic patterns of anti‐AMPAR and anti‐NMDAR encephalitis: Case report and literature review. Brain and Behavior, 2020, 10, e01540.	2.2	32
14	Potential usefulness of 68Ga-citrate PET/CT in detecting infected lower limb prostheses. EJNMMI Research, 2019, 9, 2.	2.5	22
15	Plasmon-Activated Water Reduces Amyloid Burden and Improves Memory in Animals with Alzheimer's Disease. Scientific Reports, 2019, 9, 13252.	3.3	15
16	Tau PET With 18F-THK-5351 Taiwan Patients With Familial Alzheimer's Disease With the APP p.D678H Mutation. Frontiers in Neurology, 2019, 10, 503.	2.4	9
17	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
18	Correlation between visual association memory test and structural changes in patients with Alzheimer's disease and amnestic mild cognitive impairment. Journal of the Formosan Medical Association, 2019, 118, 1325-1332.	1.7	10

#	Article	IF	Citations
19	Amyloid PET pattern with dementia and amyloid angiopathy in Taiwan familial AD with D678H APP mutation. Journal of the Neurological Sciences, 2019, 398, 107-116.	0.6	11
20	Plasma Aβ analysis using magnetically-labeled immunoassays and PET 18F-florbetapir binding in non-demented patients with major depressive disorder. Scientific Reports, 2018, 8, 2739.	3.3	5
21	Neurocognition, sleep, and PET findings in type 2 vs type 1 narcolepsy. Neurology, 2018, 90, e1478-e1487.	1.1	22
22	Visualization of ischemic stroke-related changes on 18F-THK-5351 positron emission tomography. EJNMMI Research, 2018, 8, 62.	2.5	12
23	A new in-beam proton therapy monitoring system based on digital MVT readout. , 2018, , .		0
24	New Digital Plug and Imaging Sensor for a Proton Therapy Monitoring System Based on Positron Emission Tomography. Sensors, 2018, 18, 3006.	3.8	21
25	Progress of Brain Amyloid Deposition in Familial Alzheimer's Disease with Taiwan D678H APP Mutation. Journal of Alzheimer's Disease, 2018, 66, 775-787.	2.6	4
26	Quantitative study of 18F-(+)DTBZ image: comparison of PET template-based and MRI based image analysis. Scientific Reports, 2018, 8, 16027.	3.3	13
27	Characteristic patterns of inter- and intra-hemispheric metabolic connectivity in patients with stable and progressive mild cognitive impairment and Alzheimer's disease. Scientific Reports, 2018, 8, 13807.	3.3	13
28	Diversity of neurodegenerative pathophysiology in nondemented patients with major depressive disorder: Evidence of cerebral amyloidosis and hippocampal atrophy. Brain and Behavior, 2018, 8, e01016.	2.2	23
29	Dual-phase 18 F-florbetapir positron emission tomography in patients with primary progressive aphasia, Alzheimer's disease, and healthy controls: A preliminary study. Journal of the Formosan Medical Association, 2017, 116, 964-972.	1.7	7
30	[18F]FP-(+)-DTBZ PET study in a lactacystin-treated rat model of Parkinson disease. Annals of Nuclear Medicine, 2017, 31, 506-513.	2.2	12
31	Biodistribution and Radiation Dosimetry for the Tau Tracer 18F-THK-5351 in Healthy Human Subjects. Journal of Nuclear Medicine, 2017, 58, 1498-1503.	5.0	21
32	Use of a LYSO-based Compton camera for prompt gamma range verification in proton therapy. Medical Physics, 2017, 44, 6261-6269.	3.0	17
33	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
34	Beta-amyloid deposition in patients with major depressive disorder with differing levels of treatment resistance: a pilot study. EJNMMI Research, 2017, 7, 24.	2.5	31
35	Combining Acceleration Techniques for Low-Dose X-Ray Cone Beam Computed Tomography Image Reconstruction. BioMed Research International, 2017, 2017, 1-10.	1.9	0
36	Measurement of Proton Beam Generated β+ Radioactivity by Use of All-digital PET Detectors. , 2017, , .		0

#	Article	IF	Citations
37	Quantitative analysis of the therapeutic effect of magnolol on MPTP-induced mouse model of Parkinson's disease using in vivo 18F-9-fluoropropyl-(+)-dihydrotetrabenazine PET imaging. PLoS ONE, 2017, 12, e0173503.	2.5	21
38	Early-phase 18F-AV-45 PET Imaging can Detect Crossed Cerebellar Diaschisis Following Carotid Artery Stenosis and Cerebral Hypoperfusion. Current Neurovascular Research, 2017, 14, 258-265.	1.1	4
39	P4–338: Human Biodistribution and Radiation Dosimetry for the TAU Tracer ^{18}F-THK–5351. Alzheimer's and Dementia, 2016, 12, P1164.	0.8	0
40	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
41	Brain imaging and cognition in young narcoleptic patients. Sleep Medicine, 2016, 24, 137-144.	1.6	34
42	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. European Journal of Nuclear Medicine and Molecular Imaging, 2016, 43, 1067-1076.	6.4	31
43	(R1441C) LRRK2 induces the degeneration of SN dopaminergic neurons and alters the expression of genes regulating neuronal survival in a transgenic mouse model. Experimental Neurology, 2016, 275, 104-115.	4.1	23
44	Accelerating an Ordered-Subset Low-Dose X-Ray Cone Beam Computed Tomography Image Reconstruction with a Power Factor and Total Variation Minimization. PLoS ONE, 2016, 11, e0153421.	2.5	11
45	Chronic manganism: A long-term follow-up study with a new dopamine terminal biomarker of 18F-FP-(+)-DTBZ (18F-AV-133) brain PET scan. Journal of the Neurological Sciences, 2015, 353, 102-106.	0.6	10
46	Accumulation of amyloid in cognitive impairment after mild traumatic brain injury. Journal of the Neurological Sciences, 2015, 349, 99-104.	0.6	43
47	Acceleration of MAP-EM algorithm via over-relaxation. Computerized Medical Imaging and Graphics, 2015, 40, 100-107.	5.8	2
48	AN EFFICIENT SENSITIVITY CALCULATION OF TILTED APERTURES FOR PRECLINICAL MULTI-PINHOLE SPECT. Biomedical Engineering - Applications, Basis and Communications, 2015, 27, 1550006.	0.6	0
49	Effective Anatomical Priors for Emission Tomographic Reconstruction. Journal of Medical and Biological Engineering, 2015, 35, 52-61.	1.8	5
50	^{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
51	Correlation of Parkinson Disease Severity and ^{18}F-DTBZ Positron Emission Tomography. JAMA Neurology, 2014, 71, 758.	9.0	100
52	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
53	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
54	Comparison of 99mTc-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

#	Article	IF	Citations
55	Perfusion-like template and standardized normalization-based brain image analysis using 18F-florbetapir (AV-45/Amyvid) PET. European Journal of Nuclear Medicine and Molecular Imaging, 2013, 40, 908-920.	6.4	35
56	Regional Amyloid Deposition in Amnestic Mild Cognitive Impairment and Alzheimer's Disease Evaluated by [18F]AV-45 Positron Emission Tomography in Chinese Population. PLoS ONE, 2013, 8, e58974.	2.5	44
57	Brain Imaging of Vesicular Monoamine Transporter Type 2 in Healthy Aging Subjects by 18F-FP-(+)-DTBZ PET. PLoS ONE, 2013, 8, e75952.	2.5	26
58	Use of anatomical information in a Bayesian reconstruction with an edge-preserving median prior. , 2012, , .		1
59	Ultrasound temperature estimation based on probability variation of backscatter data. Medical Physics, 2012, 39, 2369-2385.	3.0	42
60	Amyloid deposition after cerebral hypoperfusion: Evidenced on [18F]AV-45 positron emission tomography. Journal of the Neurological Sciences, 2012, 319, 124-129.	0.6	44
61	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
62	Quantitative analysis of binding sites for 9‐fluoropropyl‐(+)‐dihydrotetrabenazine ([^{18}F]AV‐133) in a MPTP‐lesioned PD mouse model. Synapse, 2012, 66, 823-831.	1.2	15
63	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
64	Amyloid plaque imaging from IMPY/SPECT to AV-45/PET. Biomedical Journal, 2012, 35, 211.	3.1	7
65	Optimal scanning time window for 18F-FP-(+)-DTBZ (18F-AV-133) summed uptake measurements. Nuclear Medicine and Biology, 2011, 38, 1149-1155.	0.6	25
66	Study on analytical system matrix constructions for a stationary multipinhole SPECT system. , 2011, , .		0
67	Noninvasive monitoring of tumor growth in a rat glioma model: comparison between neurological assessment and animal imaging. Journal of Neuro-Oncology, 2011, 104, 669-678.	2.9	5
68	An efficient voxel-driven system model for helical pinhole SPECT. , 2011, , .		0
69	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
70	Study of onset time-shift and injection duration in DCE-MRI: a comparison of a reference region model with the general kinetic model. NMR in Biomedicine, 2010, 23, 375-381.	2.8	6
71	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
72	GMP-compliant automated synthesis of [18F]AV-45 (Florbetapir F 18) for imaging β-amyloid plaques in human brain. Applied Radiation and Isotopes, 2010, 68, 2293-2297.	1.5	54

#	Article	IF	Citations
73	Image reconstructions from limit views and angle coverage data for a stationary multi-pinhole SPECT system. Tsinghua Science and Technology, 2010, 15, 44-49.	6.1	7
74	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
75	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
76	Accelerated MAP reconstructions using an accelerated factor. , 2010, , .		1
77	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
78	System matrix based on sensitivity model for small animal multi-pinhole SPECT system. , 2010, , .		3
79	Impaired liver regeneration of steatotic rats after portal vein ligation: A particular emphasis on 99mTc-DISIDA scintigraphy and adiponectin signaling. Journal of Hepatology, 2010, 52, 540-549.	3.7	11
80	Whole-body biodistribution and brain PET imaging with [18F]AV-45, a novel amyloid imaging agent â€" a pilot study. Nuclear Medicine and Biology, 2010, 37, 497-508.	0.6	116
81	Effect of geometric models on convergence rate in iterative PET image reconstructions. Journal of Instrumentation, 2009, 4, P05010-P05010.	1.2	1
82	An accurate and efficient system model of iterative image reconstruction in high-resolution pinhole SPECT for small animal research. Journal of Instrumentation, 2009, 4, P06007-P06007.	1.2	3
83	Performance evaluation on reconstructions in a stationary multi-pinhole SPECT. , 2009, , .		1
84	A voxel-driven system matrix design for multipinhole SPECT with overlapping projection. , 2009, , .		2
85	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
86	Quantitative micro-SPECT/CT for detecting focused ultrasound-induced bloodâ€"brain barrier opening in the rat. Nuclear Medicine and Biology, 2009, 36, 853-861.	0.6	28
87	Metal artifact correction methods in CT. , 2009, , .		1
88	Fast iterative reconstructions for animal CT. Journal of Instrumentation, 2009, 4, P06017-P06017.	1.2	1
89	A fast OS-type Bayesian reconstruction with an edge-preserving median prior. Journal of Instrumentation, 2009, 4, P07012-P07012.	1.2	1
90	Animal PET for Thioacetamide-Induced Rat Cholangiocarcinoma: A Novel and Reliable Platform. Molecular Imaging and Biology, 2008, 10, 209-216.	2.6	23

#	ARTICLE	IF	CITATIONS
91	A new dynamic SPECT quantification method for conventional rotating camera systems and a step-and-shot protocol. , 2008, , .		0
92	On the convergence of iterative ordered-subset algorithms in small animal PET. , 2008, , .		1
93	Analytic calculation of multi-pinhole collimator sensitivity with tilted pinholes. , 2008, , .		5
94	A system model for pinhole SPECT simulating edge penetration, detector, and pinhole response and non-uniform attenuation. , 2007, , .		2
95	New Ray-Driven System Matrix for Small-Animal Pinhole-SPECT with Detector Blur, Geometric Response and Edge Penetration Modeling. , 2006, , .		6
96	Brain SPECT imaging and whole-body biodistribution with [123I]ADAM â€" a serotonin transporter radiotracer in healthy human subjects. Nuclear Medicine and Biology, 2006, 33, 193-202.	0.6	25
97	A novel model of the geometric and detector response for limited angular sampling pinhole SPECT. , 2006, , .		1
98	A voxel-based partial volume correction in nuclear medicine. , 2006, , .		0
99	An overview of fast convergent ordered-subsets reconstruction methods for emission tomography based on the incremental EM algorithm. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 569, 429-433.	1.6	11
100	Selective averaging for the diffusion tensor measurement. Magnetic Resonance Imaging, 2005, 23, 585-590.	1.8	6
101	An accelerated convergent ordered subsets algorithm for emission tomography. Physics in Medicine and Biology, 2004, 49, 2145-2156.	3.0	54
102	A globally convergent regularized ordered-subset EM algorithm for list-mode reconstruction. IEEE Transactions on Nuclear Science, 2004, 51, 719-725.	2.0	25
103	A new convex edge-preserving median prior with applications to tomography. IEEE Transactions on Medical Imaging, 2003, 22, 580-585.	8.9	53
104	Bayesian image reconstruction for transmission tomography using deterministic annealing. Journal of Electronic Imaging, 2003, 12, 7.	0.9	11
105	Rapid calculation of detectability in Bayesian single photon emission computed tomography. Physics in Medicine and Biology, 2003, 48, 3755-3773.	3.0	24
106	<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
107	Provably convergent OSEM-like reconstruction algorithm for emission tomography. , 2002, , .		20
108	Joint-MAP Bayesian tomographic reconstruction with a gamma-mixture prior. IEEE Transactions on Image Processing, 2002, 11, 1466-1477.	9.8	33

#	Article	IF	Citations
109	Noise propagation from attenuation correction into PET reconstructions. IEEE Transactions on Nuclear Science, 2002, 49, 90-97.	2.0	17
110	<title>Bayesian image reconstruction for transmission tomography using mixture model priors and deterministic annealing algorithms</title>. , 2001, , .		3
111	Title is missing!. Journal of Mathematical Imaging and Vision, 2000, 12, 199-217.	1.3	71
112	The thin plate as a regularizer in Bayesian SPECT reconstruction. IEEE Transactions on Nuclear Science, 1997, 44, 1381-1387.	2.0	16
113	<title>Autoradiographic-based phantoms for emission tomography</title>. , 1997, 3034, 403.		3
114	<title>Quantitative effects of using thin-plate priors in Bayesian SPECT reconstruction</title>. , 1997, , .		2
115	The Investigation on Emission Reconstruction on Fewer View Projections for Brain SPECT Imaging. , 0, , .		0
116	Joint-MAP reconstruction/segmentation for transmission tomography using mixture-models as priors. , 0, , .		7
117	Performance comparison of smoothing and gamma priors for transmission tomography. , 0, , .		1
118	A median prior for tomographic reconstruction. , 0, , .		0
119	A new convergent MAP reconstruction algorithm for emission tomography using ordered subsets and separable surrogates. , 0, , .		24
120	A fast convergent ordered subset bayesian reconstruction for emission tomography. , 0, , .		0
121	Decreased Cerebral Amyloid-$\hat{I}^2$ Depositions in Patients With a Lifetime History of Major Depression With Suspected Non-Alzheimer Pathophysiology. Frontiers in Aging Neuroscience, 0, 14, .	3.4	4