Adam Espe Hansen

List of Publications by Year
in descending order

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71 papers	3,857 citations	147801 31 h-index	123424 61 g-index
71 all docs	71 docs citations	71 times ranked	5202 citing authors

#	Article	IF	Citations
1	Few-Electron Quantum Dots in Nanowires. Nano Letters, 2004, 4, 1621-1625.	9.1	274
2	Evidence for a vascular factor in migraine. Annals of Neurology, 2011, 69, 635-645.	5.3	252
3	Magnetic resonance angiography of intracranial and extracranial arteries in patients with spontaneous migraine without aura: a cross-sectional study. Lancet Neurology, The, 2013, 12, 454-461.	10.2	244
4	Bias and temperature dependence of the 0.7 conductance anomaly in quantum point contacts. Physical Review B, 2000, 62, 10950-10957.	3.2	206
5	A multi-centre evaluation of eleven clinically feasible brain PET/MRI attenuation correction techniques using a large cohort of patients. NeuroImage, 2017, 147, 346-359.	4.2	200
6	Cortical surface-based analysis reduces bias and variance in kinetic modeling of brain PET data. NeuroImage, 2014, 92, 225-236.	4.2	179
7	Semiconductor nanowires for 0D and 1D physics and applications. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 25, 313-318.	2.7	172
8	An SPM8-Based Approach for Attenuation Correction Combining Segmentation and Nonrigid Template Formation: Application to Simultaneous PET/MR Brain Imaging. Journal of Nuclear Medicine, 2014, 55, 1825-1830.	5.0	171
9	Combined PET/MR imaging in neurology: MR-based attenuation correction implies a strong spatial bias when ignoring bone. NeuroImage, 2014, 84, 206-216.	4.2	170
10	Electron transport in InAs nanowires and heterostructure nanowire devices. Solid State Communications, 2004, 131, 573-579.	1.9	134
11	Image artifacts from MR-based attenuation correction in clinical, whole-body PET/MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2013, 26, 173-181.	2.0	119
12	Headache and prolonged dilatation of the middle meningeal artery by PACAP38 in healthy volunteers. Cephalalgia, 2012, 32, 140-149.	3.9	111
13	⁶⁴ Cu-DOTATATE PET/MRI for Detection of Activated Macrophages in Carotid Atherosclerotic Plaques. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 1696-1703.	2.4	108
14	Evaluation of dynamic contrast-enhanced T1-weighted perfusion MRI in the differentiation of tumor recurrence from radiation necrosis. Neuroradiology, 2013, 55, 361-369.	2.2	91
15	Creating corners in kitchen sinks. Nature, 1998, 392, 767-768.	27.8	79
16	Observation of quantum asymmetry in an Aharonov-Bohm ring. Physical Review B, 2000, 61, 5457-5460.	3.2	77
17	Two-dimensional turbulence and dispersion in a freely decaying system. Physical Review E, 1998, 58, 7261-7271.	2.1	73
18	Estimation of intersubject variability of cerebral blood flow measurements using MRI and positron emission tomography. Journal of Magnetic Resonance Imaging, 2012, 35, 1290-1299.	3.4	67

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19	A Prospective Study Comparing ^{99m}Tc-Hydroxyethylene-Diphosphonate Planar Bone Scintigraphy and Whole-Body SPECT/CT with ¹⁸F-Fluoride PET/CT and ¹⁸F-Fluoride PET/MRI for Diagnosing Bone Metastases. Journal of Nuclear Medicine, 2017, 58, 1778-1785.	5.0	67
20	Hydraulic jumps, flow separation and wave breaking: An experimental study. Physica B: Condensed Matter, 1996, 228, 1-10.	2.7	58
21	Cover illustration: Polygonal hydraulic jumps. Nonlinearity, 1999, 12, 1-7.	1.4	57
22	Simultaneous Hyperpolarized ¹³C-Pyruvate MRI and ¹⁸F-FDG PET (HyperPET) in 10 Dogs with Cancer. Journal of Nuclear Medicine, 2015, 56, 1786-1792.	5.0	54
23	AI-driven attenuation correction for brain PET/MRI: Clinical evaluation of a dementia cohort and importance of the training group size. NeuroImage, 2020, 222, 117221.	4.2	47
24	Feasibility of Multiparametric Imaging with PET/MR in Head and Neck Squamous Cell Carcinoma. Journal of Nuclear Medicine, 2017, 58, 69-74.	5.0	44
25	PET/MR imaging of the pelvis in the presence of endoprostheses: reducing image artifacts and increasing accuracy through inpainting. European Journal of Nuclear Medicine and Molecular Imaging, 2013, 40, 594-601.	6.4	42
26	Impact of incorrect tissue classification in Dixon-based MR-AC: fat-water tissue inversion. EJNMMI Physics, 2014, 1, 101.	2.7	42
27	Comparison of simultaneous arterial spin labeling MRI and ¹⁵O-H₂O PET measurements of regional cerebral blood flow in rest and altered perfusion states. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 1621-1633.	4.3	42
28	Simultaneous characterization of tumor cellularity and the Warburg effect with PET, MRI and hyperpolarized ¹³C-MRSI. Theranostics, 2018, 8, 4765-4780.	10.0	35
29	Experimental results on flow separation and transitions in the circular hydraulic jump. Physica Scripta, 1996, T67, 105-110.	2.5	34
30	A Functional Magnetic Resonance Imaging Study of a Large Clinical Cohort of Children With Tourette Syndrome. Journal of Child Neurology, 2011, 26, 560-569.	1.4	34
31	Aggressionâ€related brain function assessed with the Point Subtraction Aggression Paradigm in fMRI. Aggressive Behavior, 2017, 43, 601-610.	2.4	34
32	PET/MRI in cancer patients: first experiences and vision from Copenhagen. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2013, 26, 37-47.	2.0	32
33	The use of dynamic nuclear polarization (13)C-pyruvate MRS in cancer. American Journal of Nuclear Medicine and Molecular Imaging, 2015, 5, 548-60.	1.0	32
34	Effect of CGRP and sumatriptan on the BOLD response in visual cortex. Journal of Headache and Pain, 2012, 13, 159-166.	6.0	31
35	Reproducibility of¹⁸F-FDG PET uptake measurements in head and neck squamous cell carcinoma on both PET/CT and PET/MR. British Journal of Radiology, 2015, 88, 20140655.	2.2	31
36	Punctuated vortex coalescence and discrete scale invariance in two-dimensional turbulence. Physica D: Nonlinear Phenomena, 2000, 138, 302-315.	2.8	30

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37	Cerebral Haemodynamic Response or Excitability is not Affected by Sildenafil. Journal of Cerebral Blood Flow and Metabolism, 2009, 29, 830-839.	4.3	29
38	Fractal Particle Trajectories in Capillary Waves: Imprint of Wavelength. Physical Review Letters, 1997, 79, 1845-1848.	7.8	25
39	Measurement of brain oxygenation changes using dynamic T1-weighted imaging. NeuroImage, 2013, 78, 7-15.	4.2	23
40	Combined hyperpolarized 13C-pyruvate MRS and 18F-FDG PET (hyperPET) estimates of glycolysis in canine cancer patients. European Journal of Radiology, 2018, 103, 6-12.	2.6	21
41	Phase contrast mapping MRI measurements of global cerebral blood flow across different perfusion states â€“ A direct comparison with ¹⁵O-H₂O positron emission tomography using a hybrid PET/MR system. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 2368-2378.	4.3	17
42	Pharmacological modulation of the bOLD response: A study of acetazolamide and glyceryl trinitrate in humans. Journal of Magnetic Resonance Imaging, 2011, 34, 921-927.	3.4	16
43	Dynamic 2D and 3D mapping of hyperpolarized pyruvate to lactate conversion in vivo with efficient multiâ€echo balanced steadyâ€state free precession at 3 T. NMR in Biomedicine, 2020, 33, e4291.	2.8	16
44	Urokinase-Type Plasminogen Activator Receptor (uPAR) PET/MRI of Prostate Cancer for Noninvasive Evaluation of Aggressiveness: Comparison with Gleason Score in a Prospective Phase 2 Clinical Trial. Journal of Nuclear Medicine, 2021, 62, 354-359.	5.0	16
45	Reproducibility of MR-Based Attenuation Maps in PET/MRI and the Impact on PET Quantification in Lung Cancer. Journal of Nuclear Medicine, 2018, 59, 999-1004.	5.0	15
46	Toward PET/MRI as one-stop shop for radiotherapy planning in cervical cancer patients. Acta OncolÃ³gica, 2021, 60, 1045-1053.	1.8	15
47	Correlation between singleâ€trial visual evoked potentials and the blood oxygenation level dependent response in simultaneously recorded electroencephalographyâ€“functional magnetic resonance imaging. Magnetic Resonance in Medicine, 2012, 68, 252-260.	3.0	14
48	Does multiparametric imaging with 18F-FDG-PET/MRI capture spatial variation in immunohistochemical cancer biomarkers in head and neck squamous cell carcinoma?. British Journal of Cancer, 2020, 123, 46-53.	6.4	13
49	Separation and pattern formation in hydraulic jumps. Physica A: Statistical Mechanics and Its Applications, 1998, 249, 111-117.	2.6	12
50	18F-FDG PET/MR-imaging in a GÃ¶ttingen Minipig model of atherosclerosis: Correlations with histology and quantitative gene expression. Atherosclerosis, 2019, 285, 55-63.	0.8	12
51	Effect of Attenuation Correction on Regional Quantification Between PET/MR and PET/CT: A Multicenter Study Using a 3-Dimensional Brain Phantom. Journal of Nuclear Medicine, 2016, 57, 818-824.	5.0	11
52	Visualizing Glioma Infiltration by the Combination of Multimodality Imaging and Artificial Intelligence, a Systematic Review of the Literature. Diagnostics, 2021, 11, 592.	2.6	11
53	In Vivo Phenotyping of Tumor Metabolism in a Canine Cancer Patient with Simultaneous 18F-FDG-PET and Hyperpolarized 13C-Pyruvate Magnetic Resonance Spectroscopic Imaging (hyperPET): Mismatch Demonstrates that FDG may not Always Reflect the Warburg Effect. Diagnostics, 2015, 5, 287-289.	2.6	10
54	PET/MR attenuation correction in brain imaging using a continuous bone signal derived from UTE. EJNMMI Physics, 2015, 2, A39.	2.7	10

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55	Surgically Induced Contrast Enhancements on Intraoperative and Early Postoperative MRI Following High-Grade Glioma Surgery: A Systematic Review. Diagnostics, 2021, 11, 1344.	2.6	9
56	Can Shunt Response in Patients with Idiopathic Normal Pressure Hydrocephalus Be Predicted from Preoperative Brain Imaging? A Retrospective Study of the Diagnostic Use of the Normal Pressure Hydrocephalus Radscale in 119 Patients. American Journal of Neuroradiology, 2022, 43, 223-229.	2.4	9
57	Long-term Safety of Treatment with Autologous Mesenchymal Stem Cells in Patients with Radiation-Induced Xerostomia: Primary Results of the MESRIX Phase I/II Randomized Trial. Clinical Cancer Research, 2022, 28, 2890-2897.	7.0	9
58	Investigation of the mesoscopic Aharonovâ€“Bohm effect in low magnetic fields. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 7, 776-780.	2.7	8
59	Preparing data for multiparametric PET/MR imaging: Influence of PET point spread function modelling and EPI distortion correction on the spatial correlation of [18F]FDG-PET and diffusion-weighted MRI in head and neck cancer. Physica Medica, 2019, 61, 1-7.	0.7	8
60	Causes and Risk Factors of Pediatric Spontaneous Intracranial Hemorrhageâ€”A Systematic Review. Diagnostics, 2022, 12, 1459.	2.6	8
61	Decoherence in Aharonovâ€“Bohm rings. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 12, 770-773.	2.7	7
62	Visual stimuli induce serotonin release in occipital cortex: A simultaneous positron emission tomography/magnetic resonance imaging study. Human Brain Mapping, 2020, 41, 4753-4763.	3.6	7
63	Components of day-to-day variability of cerebral perfusion measurements â€“ Analysis of phase contrast mapping magnetic resonance imaging measurements in healthy volunteers. PLoS ONE, 2018, 13, e0197807.	2.5	6
64	Quantum Interference above 4.2 K in a GaAl0.3As0.7/GaAs Aharonov-Bohm Ring. Journal of Low Temperature Physics, 2000, 118, 457-465.	1.4	5
65	Glycopyrrolate does not influence the visual or motor-induced increase in regional cerebral perfusion. Frontiers in Physiology, 2014, 5, 45.	2.8	5
66	Very Early Response Evaluation by PET/MR in Patients with Lung Cancerâ€”Timing and Feasibility. Diagnostics, 2019, 9, 35.	2.6	5
67	PET/MR: improvement of the UTE Î¼-maps using modified MLAA. EJNMMI Physics, 2015, 2, A58.	2.7	3
68	Multi-parametric PET/MRI for enhanced tumor characterization of patients with cervical cancer. European Journal of Hybrid Imaging, 2022, 6, 7.	1.5	3
69	Coherent structures in two-dimensional decaying turbulence. Nonlinearity, 2000, 13, C1-C3.	1.4	2
70	PET/MR imaging of sarcomas: effect of PET quantification by classification of tissue. EJNMMI Physics, 2014, 1, A67.	2.7	2
71	18F-fluorothymidine (FLT)-PET and diffusion-weighted MRI for early response evaluation in patients with small cell lung cancer: a pilot study. European Journal of Hybrid Imaging, 2020, 4, 2.	1.5	2