Adam M Alessio

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Use of Dual-Energy CT for Quantification of Essential Trace Metals (Iron, Copper, and Zinc): Proof of Concept. American Journal of Roentgenology, 2021, 216, 534-541.	2.2	1
2	Sharing and Selling Images: Ethical and Regulatory Considerations for Radiologists. Journal of the American College of Radiology, 2021, 18, 298-304.	1.8	3
3	Patient factors and outcomes associated with discordance between quantitative and qualitative cardiac PET ischemia information. PLoS ONE, 2021, 16, e0246149.	2.5	1
4	Multi-Objective Evolutionary Algorithm for PET Image Reconstruction: Concept. IEEE Transactions on Medical Imaging, 2021, 40, 2142-2151.	8.9	27
5	Technical Note: A digital reference object representing Hoffman's 3D brain phantom for PET scanner simulations. Medical Physics, 2020, 47, 1174-1180.	3.0	2
6	Ovarian torsion: developing a machine-learned algorithm for diagnosis. Pediatric Radiology, 2020, 50, 706-714.	2.0	19
7	Protocols for Harmonized Quantification and Noise Reduction in Low-Dose Oncologic 18F-FDG PET/CT Imaging. Journal of Nuclear Medicine Technology, 2019, 47, 47-54.	0.8	7
8	PET/CT-guided biopsy with respiratory motion correction. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 2187-2198.	2.8	3
9	Patient body motion correction for dynamic cardiac <scp>PET</scp> â€ <scp>CT</scp> by attenuationâ€emission alignment according to projection consistency conditions. Medical Physics, 2019, 46, 1697-1706.	3.0	6
10	Accuracy of Myocardial Blood Flow Estimation From Dynamic Contrast-Enhanced Cardiac CT Compared With PET. Circulation: Cardiovascular Imaging, 2019, 12, e008323.	2.6	29
11	Performance evaluation of the 5â€Ring GE Discovery MI PET/CT system using the national electrical manufacturers association NU 2â€2012 Standard. Medical Physics, 2019, 46, 3025-3033.	3.0	78
12	Comparison of Micro–Computed Tomography and Clinical Computed Tomography Protocols for Visualization of Nasal Cartilage Before Surgical Planning for Rhinoplasty. JAMA Facial Plastic Surgery, 2019, 21, 237-243.	2.1	12
13	Prospective Trial Using Internal Pair-Production Positron Emission Tomography to Establish the Yttrium-90 Radioembolization Dose Required for Response of Hepatocellular Carcinoma. International Journal of Radiation Oncology Biology Physics, 2018, 101, 358-365.	0.8	60
14	Hepatotoxic Dose Thresholds by Positron-Emission Tomography After Yttrium-90 Radioembolization of Liver Tumors: A Prospective Single-Arm Observational Study. CardioVascular and Interventional Radiology, 2018, 41, 1363-1372.	2.0	14
15	Quantitative myocardial perfusion from static cardiac and dynamic arterial CT. Physics in Medicine and Biology, 2018, 63, 105020.	3.0	3
16	Establishment of normative values for the fetal posterior fossa by magnetic resonance imaging. Prenatal Diagnosis, 2018, 38, 1035-1041.	2.3	7
17	CT Detectability of Small Low-Contrast Hypoattenuating Focal Lesions: Iterative Reconstructions versus Filtered Back Projection. Radiology, 2018, 289, 443-454.	7.3	42
18	Evaluation of radiation dose reduction via myocardial frame reduction in dynamic cardiac CT for perfusion quantitation. , 2018, , .		0

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19	Direct Reconstruction of CT-Based Attenuation Correction Images for PET With Cluster-Based Penalties. IEEE Transactions on Nuclear Science, 2017, 64, 959-968.	2.0	1
20	Optimization of Pediatric PET/CT. Seminars in Nuclear Medicine, 2017, 47, 258-274.	4.6	53
21	Statistical distributions of ultra-low dose CT sinograms and their fundamental limits. , 2017, , .		2
22	Improved attenuation correction for respiratory gated PET/CT with extended-duration cine CT: a simulation study. , 2017, , .		3
23	Variable temporal sampling and tube current modulation for myocardial blood flow estimation from dose-reduced dynamic computed tomography. Journal of Medical Imaging, 2017, 4, 026002.	1.5	2
24	Comparison Between Pre-Log and Post-Log Statistical Models in Ultra-Low-Dose CT Reconstruction. IEEE Transactions on Medical Imaging, 2017, 36, 707-720.	8.9	77
25	How to reconstruct dynamic cardiac PET data?. Journal of Nuclear Cardiology, 2017, 24, 291-293.	2.1	1
26	Application of big data analytics for automated estimation of CT image quality. , 2016, , .		1
27	A phantom design for assessment of detectability in PET imaging. Medical Physics, 2016, 43, 5051-5062.	3.0	20
28	Evaluation of static and dynamic perfusion cardiac computed tomography for quantitation and classification tasks. Journal of Medical Imaging, 2016, 3, 024001.	1.5	2
29	A study of SPECT/CT camera stability for quantitative imaging. EJNMMI Physics, 2016, 3, 14.	2.7	8
30	Fast analytical approach of application specific dose efficient spectrum selection for diagnostic CT imaging and PET attenuation correction. Physics in Medicine and Biology, 2016, 61, 7787-7811.	3.0	3
31	Mixed Confidence Estimation for Iterative CT Reconstruction. IEEE Transactions on Medical Imaging, 2016, 35, 2005-2014.	8.9	1
32	High resolution FDG-microPET of carotid atherosclerosis: plaque components underlying enhanced FDG uptake. International Journal of Cardiovascular Imaging, 2016, 32, 145-152.	1.5	24
33	Morphology supporting function: attenuation correction for SPECT/CT, PET/CT, and PET/MR imaging. Quarterly Journal of Nuclear Medicine and Molecular Imaging, 2016, 60, 25-39.	0.7	12
34	Impact of CT attenuation correction method on quantitative respiratoryâ€correlated (4D) PET/CT imaging. Medical Physics, 2015, 42, 110-120.	3.0	17
35	A phantom design for assessment of detectability using a lumpy background and 3D-printed features. , 2015, , .		0
36	Blind analysis of CT image noise using residual denoised images. , 2015, , .		3

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37	Spine Computed Tomography Radiation Dose Reduction. Spine, 2015, 40, 1613-1619.	2.0	4
38	Ultra-low dose CT attenuation correction for PET/CT: analysis of sparse view data acquisition and reconstruction algorithms. Physics in Medicine and Biology, 2015, 60, 7437-7460.	3.0	15
39	Adaptive sampling of CT data for myocardial blood flow estimation from dose-reduced dynamic CT. Proceedings of SPIE, 2015, , .	0.8	1
40	Performance comparison between static and dynamic cardiac CT on perfusion quantitation and patient classification tasks. , 2015, , .		1
41	Role of Reference Levels in Nuclear Medicine: A Report of the SNMMI Dose Optimization Task Force. Journal of Nuclear Medicine, 2015, 56, 1960-1964.	5.0	32
42	Assessment of patient selection criteria for quantitative imaging with respiratory-gated positron emission tomography. Journal of Medical Imaging, 2014, 1, 026001.	1.5	2
43	Sinogram smoothing techniques for myocardial blood flow estimation from dose-reduced dynamic computed tomography. Journal of Medical Imaging, 2014, 1, 034004.	1.5	7
44	Adaptive temporal smoothing of sinogram data using Karhunen-Loeve (KL) transform for myocardial blood flow estimation from dose-reduced dynamic CT. Proceedings of SPIE, 2014, , .	0.8	1
45	Simulation evaluation of quantitative myocardial perfusion assessment from cardiac CT. , 2014, 9033, 903303.		2
46	Comparison of blood flow models and acquisitions for quantitative myocardial perfusion estimation from dynamic CT. Physics in Medicine and Biology, 2014, 59, 1533-1556.	3.0	53
47	Quantification of Myocardial Blood Flow inÂAbsolute Terms Using 82Rb PET Imaging. JACC: Cardiovascular Imaging, 2014, 7, 1119-1127.	5.3	144
48	Relationships of Pediatric Anthropometrics for CT Protocol Selection. American Journal of Roentgenology, 2014, 203, W85-W91.	2.2	4
49	Improved prediction of lobar perfusion contribution using technetium-99m–labeled macroaggregate of albumin single photonÂemission computed tomography/computed tomography withÂattenuation correction. Journal of Thoracic and Cardiovascular Surgery, 2014, 148, 2345-2352.	0.8	35
50	Statistical comparison of likelihood models for low dose x-ray CT. , 2014, , .		1
51	Comparison between pre-log and post-log statistical models in low-dose CT iterative reconstruction. , 2014, , .		1
52	Analysis of statistical models for iterative reconstruction of extremely low-dose CT data. , 2014, , .		1
53	Vectorial total variation denoising for myocardial blood flow estimation in dynamic CT. , 2014, , .		0
54	Comparison of Positron Emission Tomography and Bremsstrahlung Imaging to Detect Particle Distribution in Patients Undergoing Yttrium-90 Radioembolization for Large Hepatocellular Carcinomas or Associated Portal Vein Thrombosis. Journal of Vascular and Interventional Radiology, 2013, 24, 1147-1153.	0.5	44

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55	Pediatric chest CT radiation dose reduction: protocol refinement based on noise injection for pulmonary nodule detection accuracy. Clinical Imaging, 2013, 37, 334-341.	1.5	4
56	Validation of an axially distributed model for quantification of myocardial blood flow using 13N-ammonia PET. Journal of Nuclear Cardiology, 2013, 20, 64-75.	2.1	17
57	Quantitative material characterization from multiâ€energy photon counting CT. Medical Physics, 2013, 40, 031108.	3.0	55
58	Performance Evaluation of Small Animal PET Scanners With Different System Designs. IEEE Transactions on Nuclear Science, 2013, 60, 1495-1502.	2.0	4
59	Model-Based Iterative Reconstruction Versus Adaptive Statistical Iterative Reconstruction and Filtered Back Projection in Liver 64-MDCT: Focal Lesion Detection, Lesion Conspicuity, and Image Noise. American Journal of Roentgenology, 2013, 200, 1071-1076.	2.2	71
60	Pediatric CT: Strategies to Lower Radiation Dose. American Journal of Roentgenology, 2013, 200, 950-956.	2.2	104
61	Dual energy CT for attenuation correction with PET/CT. Medical Physics, 2013, 41, 012501.	3.0	19
62	A digital reference object for the 3D Hoffman brain phantom for characterization of PET neuroimaging quality. , 2013, , .		1
63	Direct reconstruction of CT-based attenuation correction images for PET with cluster-based penalties. , 2013, 2013, .		2
64	latrogenic Radiation Exposure to Patients With Early Onset Spine and Chest Wall Deformities. Spine, 2013, 38, E1108-E1114.	2.0	12
65	Resolution modeling enhances PET imaging. Medical Physics, 2013, 40, 120601.	3.0	25
66	Ultra-low dose CT attenuation correction for PET/CT. Physics in Medicine and Biology, 2012, 57, 309-328.	3.0	84
67	Enhancing clinical utility of respiratory-gated PET/CT using patient respiratory trace classification. , 2012, , .		0
68	Accuracy of CT-based attenuation correction in PET/CT bone imaging. Physics in Medicine and Biology, 2012, 57, 2477-2490.	3.0	40
69	Applying a patient-specific bio-mathematical model of glioma growth to develop virtual [18F]-FMISO-PET images. Mathematical Medicine and Biology, 2012, 29, 31-48.	1.2	41
70	Properties and Mitigation of Edge Artifacts in PSF-Based PET Reconstruction. IEEE Transactions on Nuclear Science, 2011, 58, 2264-2275.	2.0	59
71	Myocardial hypo-enhancement on resting computed tomography angiography images accurately identifies myocardial hypoperfusion. Journal of Cardiovascular Computed Tomography, 2011, 5, 412-420.	1.3	25
72	Respiratory motion correction for quantitative PET/CT using all detected events with internal-external motion correlation. Medical Physics, 2011, 38, 2715-2723.	3.0	64

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73	Constrain static target kinetic iterative image reconstruction for 4D cardiac CT imaging. , 2011, , .		1
74	Role of Limited Whole-Body PET/CT in Pediatric Lymphoma. American Journal of Roentgenology, 2011, 196, 1047-1055.	2.2	18
75	Evaluation of Optimal Acquisition Duration or Injected Activity for Pediatric ¹⁸ F-FDG PET/CT. Journal of Nuclear Medicine, 2011, 52, 1028-1034.	5.0	41
76	Comparison of models and acquisition techniques for estimation of myocardial blood flow from CT. Proceedings of SPIE, 2011, , .	0.8	0
77	Quantifying and Reducing the Effect of Calibration Error on Variability of PET/CT Standardized Uptake Value Measurements. Journal of Nuclear Medicine, 2011, 52, 218-224.	5.0	62
78	Attenuationâ€emission alignment in cardiac PET/CT based on consistency conditions. Medical Physics, 2010, 37, 1191-1200.	3.0	40
79	Quiescent period respiratory gating for PET/CT. Medical Physics, 2010, 37, 5037-5043.	3.0	94
80	A pediatric CT dose and risk estimator. Pediatric Radiology, 2010, 40, 1816-1821.	2.0	37
81	Estimated cumulative radiation dose from PET/CT in children with malignancies. Pediatric Radiology, 2010, 40, 1712-1713.	2.0	14
82	Application and Evaluation of a Measured Spatially Variant System Model for PET Image Reconstruction. IEEE Transactions on Medical Imaging, 2010, 29, 938-949.	8.9	189
83	Multiscale modeling of metabolism, flows, and exchanges in heterogeneous organs. Annals of the New York Academy of Sciences, 2010, 1188, 111-120.	3.8	13
84	Image reconstruction for PET/CT scanners: past achievements and future challenges. Imaging in Medicine, 2010, 2, 529-545.	0.0	89
85	Noise and bias properties of monoenergetic images from DECT used for attenuation correction with PET/CT and SPECT/CT. , 2010, 7622, 762225-762228.		3
86	Properties of edge artifacts in PSF-based PET reconstruction. , 2010, , .		5
87	Evaluation of noise properties in PSF-based PET image reconstruction. , 2009, 2009, 3042-3047.		5
88	Limits of ultra-low dose CT attenuation correction for PET/CT. , 2009, 2009, 3074-3079.		5
89	Fast kVp-switching dual energy CT for PET attenuation correction. , 2009, , .		3
90	Weight-Based, Low-Dose Pediatric Whole-Body PET/CT Protocols. Journal of Nuclear Medicine, 2009, 50, 1570-1578.	5.0	108

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91	The impact of respiratory motion on tumor quantification and delineation in static PET/CT imaging. Physics in Medicine and Biology, 2009, 54, 7345-7362.	3.0	208
92	Impact on Image Noise of Incorporating Detector Blurring Into Image Reconstruction for a Small Animal PET Scanner. IEEE Transactions on Nuclear Science, 2009, 56, 2769-2776.	2.0	6
93	What are the basic concepts of temporal, contrast, and spatial resolution in cardiac CT?. Journal of Cardiovascular Computed Tomography, 2009, 3, 403-408.	1.3	214
94	Application of a spatially variant system model for 3-D whole-body pet image reconstruction. , 2008, 2008, 1315-1318.		11
95	Image Reconstruction for a Partially Collimated Whole Body PET Scanner. IEEE Transactions on Nuclear Science, 2008, 55, 975-983.	2.0	3
96	Effect of Reconstruction Algorithms on Myocardial Blood Flow Measurement with 13N-Ammonia PET. Journal of Nuclear Medicine, 2007, 48, 1259-1265.	5.0	23
97	Consistency driven respiratory phase alignment and motion compensation in PET/CT. , 2007, 4, 3115-3119.		4
98	Estimating live-time for new PET scanner configurations. , 2007, 4, 2880-2884.		2
99	Cine CT for Attenuation Correction in Cardiac PET/CT. Journal of Nuclear Medicine, 2007, 48, 794-801.	5.0	93
100	Modeling and incorporation of system response functions in 3-D whole body PET. IEEE Transactions on Medical Imaging, 2006, 25, 828-837.	8.9	156
101	Automatic arm removal in PET and CT images for deformable registration. Computerized Medical Imaging and Graphics, 2006, 30, 469-477.	5.8	6
102	Count-Rate Performance of the Discovery STE PET Scanner Using Partial Collimation. , 2006, 4, 2488-2493.		4
103	Dual Energy CT Attenuation Correction Methods for Quantitative Assessment of Response to Cancer Therapy with PET/CT Imaging. Technology in Cancer Research and Treatment, 2006, 5, 319-327.	1.9	53
104	Improved quantitation for PET/CT image reconstruction with system modeling and anatomical priors. Medical Physics, 2006, 33, 4095-4103.	3.0	53
105	Tumor delineation using PET in head and neck cancers: Threshold contouring and lesion volumes. Medical Physics, 2006, 33, 4280-4288.	3.0	100
106	Improved quantitation for PET/CT image reconstruction with system modeling and anatomical priors. , 2005, , .		2
107	PET/CT scanner instrumentation, challenges, and solutions. Radiologic Clinics of North America, 2004, 42, 1017-1032.	1.8	65
108	MAP reconstruction from spatially correlated PET data. IEEE Transactions on Nuclear Science, 2003, 50, 1445-1451.	2.0	9