

Adam M Alessio

List of Publications by Year in descending order

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108
papers

3,258
citations

126708

33
h-index

155451

55
g-index

111
all docs

111
docs citations

111
times ranked

3640
citing authors

#	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.	1.0	1
2	Sharing and Selling Images: Ethical and Regulatory Considerations for Radiologists. Journal of the American College of Radiology, 2021, 18, 298-304.	0.9	3
3	Patient factors and outcomes associated with discordance between quantitative and qualitative cardiac PET ischemia information. PLoS ONE, 2021, 16, e0246149.	1.1	1
4	Multi-Objective Evolutionary Algorithm for PET Image Reconstruction: Concept. IEEE Transactions on Medical Imaging, 2021, 40, 2142-2151.	5.4	27
5	Technical Note: A digital reference object representing Hoffman's 3D brain phantom for PET scanner simulations. Medical Physics, 2020, 47, 1174-1180.	1.6	2
6	Ovarian torsion: developing a machine-learned algorithm for diagnosis. Pediatric Radiology, 2020, 50, 706-714.	1.1	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.	0.4	7
8	PET/CT-guided biopsy with respiratory motion correction. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 2187-2198.	1.7	3
9	Patient body motion correction for dynamic cardiac PET/CT by attenuation emission alignment according to projection consistency conditions. Medical Physics, 2019, 46, 1697-1706.	1.6	6
10	Accuracy of Myocardial Blood Flow Estimation From Dynamic Contrast-Enhanced Cardiac CT Compared With PET. Circulation: Cardiovascular Imaging, 2019, 12, e008323.	1.3	29
11	Performance evaluation of the 5-Ring GE Discovery MI PET/CT system using the national electrical manufacturers association NU 2012 Standard. Medical Physics, 2019, 46, 3025-3033.	1.6	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.	2.2	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.	0.4	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.	0.9	14
15	Quantitative myocardial perfusion from static cardiac and dynamic arterial CT. Physics in Medicine and Biology, 2018, 63, 105020.	1.6	3
16	Establishment of normative values for the fetal posterior fossa by magnetic resonance imaging. Prenatal Diagnosis, 2018, 38, 1035-1041.	1.1	7
17	CT Detectability of Small Low-Contrast Hypoattenuating Focal Lesions: Iterative Reconstructions versus Filtered Back Projection. Radiology, 2018, 289, 443-454.	3.6	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.	1.2	1
20	Optimization of Pediatric PET/CT. Seminars in Nuclear Medicine, 2017, 47, 258-274.	2.5	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.	0.8	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.	5.4	77
25	How to reconstruct dynamic cardiac PET data?. Journal of Nuclear Cardiology, 2017, 24, 291-293.	1.4	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.	1.6	20
28	Evaluation of static and dynamic perfusion cardiac computed tomography for quantitation and classification tasks. Journal of Medical Imaging, 2016, 3, 024001.	0.8	2
29	A study of SPECT/CT camera stability for quantitative imaging. EJNMMI Physics, 2016, 3, 14.	1.3	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.	1.6	3
31	Mixed Confidence Estimation for Iterative CT Reconstruction. IEEE Transactions on Medical Imaging, 2016, 35, 2005-2014.	5.4	1
32	High resolution FDG-microPET of carotid atherosclerosis: plaque components underlying enhanced FDG uptake. International Journal of Cardiovascular Imaging, 2016, 32, 145-152.	0.7	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.	0.4	12
34	Impact of CT attenuation correction method on quantitative respiratory-correlated (4D) PET/CT imaging. Medical Physics, 2015, 42, 110-120.	1.6	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. <i>Spine</i> , 2015, 40, 1613-1619.	1.0	4
38	Ultra-low dose CT attenuation correction for PET/CT: analysis of sparse view data acquisition and reconstruction algorithms. <i>Physics in Medicine and Biology</i> , 2015, 60, 7437-7460.	1.6	15
39	Adaptive sampling of CT data for myocardial blood flow estimation from dose-reduced dynamic CT. <i>Proceedings of SPIE</i> , 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. <i>Journal of Nuclear Medicine</i> , 2015, 56, 1960-1964.	2.8	32
42	Assessment of patient selection criteria for quantitative imaging with respiratory-gated positron emission tomography. <i>Journal of Medical Imaging</i> , 2014, 1, 026001.	0.8	2
43	Sinogram smoothing techniques for myocardial blood flow estimation from dose-reduced dynamic computed tomography. <i>Journal of Medical Imaging</i> , 2014, 1, 034004.	0.8	7
44	Adaptive temporal smoothing of sinogram data using Karhunen-Loeve (KL) transform for myocardial blood flow estimation from dose-reduced dynamic CT. <i>Proceedings of SPIE</i> , 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. <i>Physics in Medicine and Biology</i> , 2014, 59, 1533-1556.	1.6	53
47	Quantification of Myocardial Blood Flow in Absolute Terms Using 82Rb PET Imaging. <i>JACC: Cardiovascular Imaging</i> , 2014, 7, 1119-1127.	2.3	144
48	Relationships of Pediatric Anthropometrics for CT Protocol Selection. <i>American Journal of Roentgenology</i> , 2014, 203, W85-W91.	1.0	4
49	Improved prediction of lobar perfusion contribution using technetium-99m labeled macroaggregate of albumin single photon emission computed tomography/computed tomography with attenuation correction. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2014, 148, 2345-2352.	0.4	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. <i>Journal of Vascular and Interventional Radiology</i> , 2013, 24, 1147-1153.	0.2	44

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55	Pediatric chest CT radiation dose reduction: protocol refinement based on noise injection for pulmonary nodule detection accuracy. <i>Clinical Imaging</i> , 2013, 37, 334-341.	0.8	4
56	Validation of an axially distributed model for quantification of myocardial blood flow using ¹³ N-ammonia PET. <i>Journal of Nuclear Cardiology</i> , 2013, 20, 64-75.	1.4	17
57	Quantitative material characterization from multi-energy photon counting CT. <i>Medical Physics</i> , 2013, 40, 031108.	1.6	55
58	Performance Evaluation of Small Animal PET Scanners With Different System Designs. <i>IEEE Transactions on Nuclear Science</i> , 2013, 60, 1495-1502.	1.2	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. <i>American Journal of Roentgenology</i> , 2013, 200, 1071-1076.	1.0	71
60	Pediatric CT: Strategies to Lower Radiation Dose. <i>American Journal of Roentgenology</i> , 2013, 200, 950-956.	1.0	104
61	Dual energy CT for attenuation correction with PET/CT. <i>Medical Physics</i> , 2013, 41, 012501.	1.6	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	Iatrogenic Radiation Exposure to Patients With Early Onset Spine and Chest Wall Deformities. <i>Spine</i> , 2013, 38, E1108-E1114.	1.0	12
65	Resolution modeling enhances PET imaging. <i>Medical Physics</i> , 2013, 40, 120601.	1.6	25
66	Ultra-low dose CT attenuation correction for PET/CT. <i>Physics in Medicine and Biology</i> , 2012, 57, 309-328.	1.6	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. <i>Physics in Medicine and Biology</i> , 2012, 57, 2477-2490.	1.6	40
69	Applying a patient-specific bio-mathematical model of glioma growth to develop virtual [¹⁸ F]-FMISO-PET images. <i>Mathematical Medicine and Biology</i> , 2012, 29, 31-48.	0.8	41
70	Properties and Mitigation of Edge Artifacts in PSF-Based PET Reconstruction. <i>IEEE Transactions on Nuclear Science</i> , 2011, 58, 2264-2275.	1.2	59
71	Myocardial hypo-enhancement on resting computed tomography angiography images accurately identifies myocardial hypoperfusion. <i>Journal of Cardiovascular Computed Tomography</i> , 2011, 5, 412-420.	0.7	25
72	Respiratory motion correction for quantitative PET/CT using all detected events with internal-external motion correlation. <i>Medical Physics</i> , 2011, 38, 2715-2723.	1.6	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.	1.0	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.	2.8	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.	2.8	62
78	Attenuation- μ emission alignment in cardiac PET/CT based on consistency conditions. Medical Physics, 2010, 37, 1191-1200.	1.6	40
79	Quiescent period respiratory gating for PET/CT. Medical Physics, 2010, 37, 5037-5043.	1.6	94
80	A pediatric CT dose and risk estimator. Pediatric Radiology, 2010, 40, 1816-1821.	1.1	37
81	Estimated cumulative radiation dose from PET/CT in children with malignancies. Pediatric Radiology, 2010, 40, 1712-1713.	1.1	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.	5.4	189
83	Multiscale modeling of metabolism, flows, and exchanges in heterogeneous organs. Annals of the New York Academy of Sciences, 2010, 1188, 111-120.	1.8	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.	2.8	108

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91	The impact of respiratory motion on tumor quantification and delineation in static PET/CT imaging. <i>Physics in Medicine and Biology</i> , 2009, 54, 7345-7362.	1.6	208
92	Impact on Image Noise of Incorporating Detector Blurring Into Image Reconstruction for a Small Animal PET Scanner. <i>IEEE Transactions on Nuclear Science</i> , 2009, 56, 2769-2776.	1.2	6
93	What are the basic concepts of temporal, contrast, and spatial resolution in cardiac CT?. <i>Journal of Cardiovascular Computed Tomography</i> , 2009, 3, 403-408.	0.7	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. <i>IEEE Transactions on Nuclear Science</i> , 2008, 55, 975-983.	1.2	3
96	Effect of Reconstruction Algorithms on Myocardial Blood Flow Measurement with ¹³ N-Ammonia PET. <i>Journal of Nuclear Medicine</i> , 2007, 48, 1259-1265.	2.8	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. <i>Journal of Nuclear Medicine</i> , 2007, 48, 794-801.	2.8	93
100	Modeling and incorporation of system response functions in 3-D whole body PET. <i>IEEE Transactions on Medical Imaging</i> , 2006, 25, 828-837.	5.4	156
101	Automatic arm removal in PET and CT images for deformable registration. <i>Computerized Medical Imaging and Graphics</i> , 2006, 30, 469-477.	3.5	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. <i>Technology in Cancer Research and Treatment</i> , 2006, 5, 319-327.	0.8	53
104	Improved quantitation for PET/CT image reconstruction with system modeling and anatomical priors. <i>Medical Physics</i> , 2006, 33, 4095-4103.	1.6	53
105	Tumor delineation using PET in head and neck cancers: Threshold contouring and lesion volumes. <i>Medical Physics</i> , 2006, 33, 4280-4288.	1.6	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. <i>Radiologic Clinics of North America</i> , 2004, 42, 1017-1032.	0.9	65
108	MAP reconstruction from spatially correlated PET data. <i>IEEE Transactions on Nuclear Science</i> , 2003, 50, 1445-1451.	1.2	9