Piotr J Slomka

List of Publications by Year
in descending order

372 papers	17,975 citations	13099 68 h-index	20961 115 g-index
381 all docs	381 docs citations	381 times ranked	10023 citing authors

#	Article	IF	Citations
1	Optimal Medical Therapy With or Without Percutaneous Coronary Intervention to Reduce Ischemic Burden. Circulation, 2008, 117, 1283-1291.	1.6	1,478
2	Machine learning for prediction of all-cause mortality in patients with suspected coronary artery disease: a 5-year multicentre prospective registry analysis. European Heart Journal, 2017, 38, ehw188.	2.2	447
3	Artificial Intelligence in Cardiovascular Imaging. Journal of the American College of Cardiology, 2019, 73, 1317-1335.	2.8	374
4	Low-Attenuation Noncalcified Plaque on Coronary Computed Tomography Angiography Predicts Myocardial Infarction. Circulation, 2020, 141, 1452-1462.	1.6	348
5	Clinical applications of machine learning in cardiovascular disease and its relevance to cardiac imaging. European Heart Journal, 2019, 40, 1975-1986.	2.2	327
6	Underestimation of extent of ischemia by gated SPECT myocardial perfusion imaging in patients with left main coronary artery disease. Journal of Nuclear Cardiology, 2007, 14, 521-528.	2.1	310
7	Automated quantification of myocardial perfusion SPECT using simplified normal limits. Journal of Nuclear Cardiology, 2005, 12, 66-77.	2.1	252
8	Deep Learning for Prediction of Obstructive Disease From Fast Myocardial Perfusion SPECT. JACC: Cardiovascular Imaging, 2018, 11, 1654-1663.	5.3	246
9	Single Photon Emission Computed Tomography (SPECT) Myocardial Perfusion Imaging Guidelines: Instrumentation, Acquisition, Processing, and Interpretation. Journal of Nuclear Cardiology, 2018, 25, 1784-1846.	2.1	241
10	Advances in technical aspects of myocardial perfusion SPECT imaging. Journal of Nuclear Cardiology, 2009, 16, 255-276.	2.1	223
11	Quantitation in gated perfusion SPECT imaging: The Cedars-Sinai approach. Journal of Nuclear Cardiology, 2007, 14, 433-454.	2.1	219
12	Pericardial Fat Burden on ECG-Gated Noncontrast CT in Asymptomatic Patients Who Subsequently Experience Adverse Cardiovascular Events. JACC: Cardiovascular Imaging, 2010, 3, 352-360.	5.3	210
13	Quantification of Myocardial Perfusion Reserve Using Dynamic SPECT Imaging in Humans: A Feasibility Study. Journal of Nuclear Medicine, 2013, 54, 873-879.	5.0	200
14	Pericoronary Adipose Tissue Computed Tomography Attenuation and High-Risk Plaque Characteristics in Acute Coronary Syndrome Compared With Stable Coronary Artery Disease. JAMA Cardiology, 2018, 3, 858.	6.1	186
15	Automated Three-dimensional Quantification of Noncalcified Coronary Plaque from Coronary CT Angiography: Comparison with Intravascular US. Radiology, 2010, 257, 516-522.	7.3	177
16	Baseline stress myocardial perfusion imaging results and outcomes in patients with stable ischemic heart disease randomized to optimal medical therapy with or without percutaneous coronary intervention. American Heart Journal, 2012, 164, 243-250.	2.7	175
17	Prognostic Value of Combined Clinical andÂMyocardial Perfusion Imaging Data Using Machine Learning. JACC: Cardiovascular Imaging, 2018, 11, 1000-1009.	5.3	172
18	Comparative Definitions for Moderate-Severe Ischemia in Stress Nuclear, Echocardiography, and Magnetic Resonance Imaging. JACC: Cardiovascular Imaging, 2014, 7, 593-604.	5.3	168

#	Article	IF	Citations
19	Clinical Quantification of Myocardial Blood Flow Using PET: Joint Position Paper of the SNMMI Cardiovascular Council and the ASNC. Journal of Nuclear Medicine, 2018, 59, 273-293.	5.0	163
20	Cannabis induced dopamine release: an in-vivo SPECT study. Psychiatry Research - Neuroimaging, 2001, 107, 173-177.	1.8	156
21	Clinical Quantification of Myocardial Blood Flow Using PET: Joint Position Paper of the SNMMI Cardiovascular Council and the ASNC. Journal of Nuclear Cardiology, 2018, 25, 269-297.	2.1	151
22	Recent Advances and Future Progress in PET Instrumentation. Seminars in Nuclear Medicine, 2016, 46, 5-19.	4.6	147
23	Quantification of Myocardial Blood Flow inÂAbsolute Terms Using 82Rb PET Imaging. JACC: Cardiovascular Imaging, 2014, 7, 1119-1127.	5.3	144
24	Epicardial adipose tissue density and volume are related to subclinical atherosclerosis, inflammation and major adverse cardiac events in asymptomatic subjects. Journal of Cardiovascular Computed Tomography, 2018, 12, 67-73.	1.3	143
25	Quantitative assessment of myocardial perfusion abnormality on SPECT myocardial perfusion imaging is more reproducible than expert visual analysis. Journal of Nuclear Cardiology, 2009, 16, 45-53.	2.1	139
26	Stress Thallium-201/Rest Technetium-99m Sequential Dual Isotope High-Speed Myocardial Perfusion Imaging. JACC: Cardiovascular Imaging, 2009, 2, 273-282.	5.3	138
27	Multicenter Trial of High-Speed Versus Conventional Single-Photon Emission Computed Tomography Imaging. Journal of the American College of Cardiology, 2010, 55, 1965-1974.	2.8	136
28	Deep Learning for Quantification of Epicardial and Thoracic Adipose Tissue From Non-Contrast CT. IEEE Transactions on Medical Imaging, 2018, 37, 1835-1846.	8.9	135
29	Integrated prediction of lesion-specific ischaemia from quantitative coronary CT angiography using machine learning: a multicentre study. European Radiology, 2018, 28, 2655-2664.	4.5	135
30	Increased Pericardial Fat Volume Measured From Noncontrast CT Predicts Myocardial Ischemia by SPECT. JACC: Cardiovascular Imaging, 2010, 3, 1104-1112.	5.3	133
31	Relationship between changes in pericoronary adipose tissue attenuation and coronary plaque burden quantified from coronary computed tomography angiography. European Heart Journal Cardiovascular Imaging, 2019, 20, 636-643.	1.2	129
32	Peri-Coronary Adipose Tissue Density IsÂAssociated With 18F-Sodium Fluoride Coronary Uptake in Stable Patients WithÂHigh-Risk Plaques. JACC: Cardiovascular Imaging, 2019, 12, 2000-2010.	5.3	129
33	Quantitative Uprightâ€"Supine High-Speed SPECT Myocardial Perfusion Imaging for Detection of Coronary Artery Disease: Correlation with Invasive Coronary Angiography. Journal of Nuclear Medicine, 2010, 51, 1724-1731.	5.0	126
34	Computer-aided non-contrast CT-based quantification of pericardial and thoracic fat and their associations with coronary calcium and metabolic syndrome. Atherosclerosis, 2010, 209, 136-141.	0.8	123
35	Proposed Requirements for Cardiovascular Imaging-Related Machine Learning Evaluation (PRIME): A Checklist. JACC: Cardiovascular Imaging, 2020, 13, 2017-2035.	5.3	123
36	Improved accuracy of myocardial perfusion SPECT for detection of coronary artery disease by machine learning in a large population. Journal of Nuclear Cardiology, 2013, 20, 553-562.	2.1	122

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37	Deep Learning Analysis of Upright-Supine High-Efficiency SPECT Myocardial Perfusion Imaging for Prediction of Obstructive Coronary Artery Disease: A Multicenter Study. Journal of Nuclear Medicine, 2019, 60, 664-670.	5.0	113
38	Multisoftware Reproducibility Study of Stress and Rest Myocardial Blood Flow Assessed with 3D Dynamic PET/CT and a 1-Tissue-Compartment Model of ⁸²Rb Kinetics. Journal of Nuclear Medicine, 2013, 54, 571-577.	5.0	110
39	Prediction of revascularization after myocardial perfusion SPECT by machine learning in a large population. Journal of Nuclear Cardiology, 2015, 22, 877-884.	2.1	110
40	Recent technologic advances in nuclear cardiology. Journal of Nuclear Cardiology, 2007, 14, 501-513.	2.1	109
41	Comparison of Clinical Tools for Measurements of Regional Stress and Rest Myocardial Blood Flow Assessed with ¹³N-Ammonia PET/CT. Journal of Nuclear Medicine, 2012, 53, 171-181.	5.0	105
42	Impact of carbohydrate restriction with and without fatty acid loading on myocardial 18F-FDG uptake during PET: A randomized controlled trial. Journal of Nuclear Cardiology, 2010, 17, 286-291.	2.1	104
43	Automated 3-dimensional quantification of noncalcified and calcified coronary plaque from coronary CT angiography. Journal of Cardiovascular Computed Tomography, 2009, 3, 372-382.	1.3	100
44	Myocardial Perfusion Imaging with a Solid-State Camera: Simulation of a Very Low Dose Imaging Protocol. Journal of Nuclear Medicine, 2013, 54, 373-379.	5.0	100
45	Coronary 18F-Sodium Fluoride Uptake Predicts Outcomes in Patients With Coronary Artery Disease. Journal of the American College of Cardiology, 2020, 75, 3061-3074.	2.8	100
46	Coronary Arterial ¹⁸F-FDG Uptake by Fusion of PET and Coronary CT Angiography at Sites of Percutaneous Stenting for Acute Myocardial Infarction and Stable Coronary Artery Disease. Journal of Nuclear Medicine, 2012, 53, 575-583.	5.0	96
47	Comparison of Fully Automated Computer Analysis and Visual Scoring for Detection of Coronary Artery Disease from Myocardial Perfusion SPECT in a Large Population. Journal of Nuclear Medicine, 2013, 54, 221-228.	5.0	96
48	Multimodality image registration with software: state-of-the-art. European Journal of Nuclear Medicine and Molecular Imaging, 2009, 36, 44-55.	6.4	91
49	Automated Quantitation of Pericardiac Fat From Noncontrast CT. Investigative Radiology, 2008, 43, 145-153.	6.2	90
50	Quantitative global plaque characteristics from coronary computed tomography angiography for the prediction of future cardiac mortality during long-term follow-up. European Heart Journal Cardiovascular Imaging, 2017, 18, 1331-1339.	1.2	90
51	Reversible ischemia around intracerebral hemorrhage: a single-photon emission computerized tomography study. Journal of Neurosurgery, 2002, 96, 736-741.	1.6	89
52	Combined supine and prone quantitative myocardial perfusion SPECT: method development and clinical validation in patients with no known coronary artery disease. Journal of Nuclear Medicine, 2006, 47, 51-8.	5.0	89
53	Comparison of Image Quality, Myocardial Perfusion, and Left Ventricular Function Between Standard Imaging and Single-Injection Ultra-Low-Dose Imaging Using a High-Efficiency SPECT Camera: The MILLISIEVERT Study. Journal of Nuclear Medicine, 2014, 55, 1430-1437.	5.0	87
54	Myocardial Infarction Associates With a Distinct Pericoronary Adipose Tissue Radiomic Phenotype. JACC: Cardiovascular Imaging, 2020, 13, 2371-2383.	5.3	86

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55	Roles of nuclear cardiology, cardiac computed tomography, and cardiac magnetic resonance: assessment of patients with suspected coronary artery disease. Journal of Nuclear Medicine, 2006, 47, 74-82.	5.0	85
56	Deep learning-enabled coronary CT angiography for plaque and stenosis quantification and cardiac risk prediction: an international multicentre study. The Lancet Digital Health, 2022, 4, e256-e265.	12.3	85
57	Fully Automated CT Quantification of Epicardial Adipose Tissue by Deep Learning: A Multicenter Study. Radiology: Artificial Intelligence, 2019, 1, e190045.	5.8	83
58	Subjective Effects of AMPT-induced Dopamine Depletion in Schizophrenia Correlation between Dysphoric Responses and Striatal D2 Binding Ratios on SPECT Imaging. Neuropsychopharmacology, 2001, 25, 642-650.	5.4	80
59	Vulnerable plaque features on coronary CT angiography as markers of inducible regional myocardial hypoperfusion from severe coronary artery stenoses. Atherosclerosis, 2011, 219, 588-595.	0.8	79
60	Cardiac imaging: working towards fully-automated machine analysis & interpretation. Expert Review of Medical Devices, 2017, 14, 197-212.	2.8	78
61	Machine learning to predict the long-term risk of myocardial infarction and cardiac death based on clinical risk, coronary calcium, and epicardial adipose tissue: a prospective study. Cardiovascular Research, 2020, 116, 2216-2225.	3.8	78
62	Automatic and visual reproducibility of perfusion and function measures for myocardial perfusion SPECT. Journal of Nuclear Cardiology, 2010, 17, 1050-1057.	2.1	77
63	Deep Learningâ€"Based Quantification of Epicardial Adipose Tissue Volume and Attenuation Predicts Major Adverse Cardiovascular Events in Asymptomatic Subjects. Circulation: Cardiovascular Imaging, 2020, 13, e009829.	2.6	77
64	Quantitative Analysis of Myocardial Perfusion SPECT Anatomically Guided by Coregistered 64-Slice Coronary CT Angiography. Journal of Nuclear Medicine, 2009, 50, 1621-1630.	5.0	76
65	Motion Correction of ¹⁸F-NaF PET for Imaging Coronary Atherosclerotic Plaques. Journal of Nuclear Medicine, 2016, 57, 54-59.	5.0	74
66	Rationale and design of the REgistry of Fast Myocardial Perfusion Imaging with NExt generation SPECT (REFINE SPECT). Journal of Nuclear Cardiology, 2020, 27, 1010-1021.	2.1	74
67	Advances in SPECT and PET Hardware. Progress in Cardiovascular Diseases, 2015, 57, 566-578.	3.1	73
68	Diagnostic accuracy of gated Tc-99m sestamibi stress myocardial perfusion SPECT with combined supine and prone acquisitions to detect coronary artery disease in obese and nonobese patients. Journal of Nuclear Cardiology, 2006, 13, 191-201.	2.1	72
69	"Motion-frozen" display and quantification of myocardial perfusion. Journal of Nuclear Medicine, 2004, 45, 1128-34.	5.0	72
70	Structured learning algorithm for detection of nonobstructive and obstructive coronary plaque lesions from computed tomography angiography. Journal of Medical Imaging, 2015, 2, 014003.	1.5	71
71	5-Year Prognostic Value of QuantitativeÂVersus Visual MPI in SubtleÂPerfusionÂDefects. JACC: Cardiovascular Imaging, 2020, 13, 774-785.	5.3	70
72	Machine learning predicts per-vessel early coronary revascularization after fast myocardial perfusion SPECT: results from multicentre REFINE SPECT registry. European Heart Journal Cardiovascular Imaging, 2020, 21, 549-559.	1.2	70

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73	Improved Accuracy of Myocardial Perfusion SPECT for the Detection of Coronary Artery Disease Using a Support Vector Machine Algorithm. Journal of Nuclear Medicine, 2013, 54, 549-555.	5.0	69
74	Comparison of the Extent and Severity of Myocardial Perfusion Defects Measured by CT Coronary Angiography and SPECT Myocardial Perfusion Imaging. JACC: Cardiovascular Imaging, 2010, 3, 1010-1019.	5.3	68
75	Comparison of quantitative atherosclerotic plaque burden from coronary CT angiography in patients with first acute coronary syndrome and stable coronary artery disease. Journal of Cardiovascular Computed Tomography, 2014, 8, 368-374.	1.3	68
76	Evaluation of voxel-based registration of 3-D power Doppler ultrasound and 3-D magnetic resonance angiographic images of carotid arteries. Ultrasound in Medicine and Biology, 2001, 27, 945-955.	1.5	67
77	Epicardial fat volume and concurrent presence of both myocardial ischemia and obstructive coronary artery disease. Atherosclerosis, 2012, 221, 422-426.	0.8	67
78	Automated Quantitative Plaque Burden from Coronary CT Angiography Noninvasively Predicts Hemodynamic Significance by using Fractional Flow Reserve in Intermediate Coronary Lesions. Radiology, 2015, 276, 408-415.	7.3	67
79	New Cardiac Cameras: Single-Photon Emission CT and PET. Seminars in Nuclear Medicine, 2014, 44, 232-251.	4.6	65
80	Advances in Nuclear Cardiac Instrumentation with a View Towards Reduced Radiation Exposure. Current Cardiology Reports, 2012, 14, 208-216.	2.9	63
81	Evaluation of linear registration algorithms for brain SPECT and the errors due to hypoperfusion lesions. Medical Physics, 2001, 28, 1660-1668.	3.0	62
82	Automated 3-dimensional registration of stand-alone (18)F-FDG whole-body PET with CT. Journal of Nuclear Medicine, 2003, 44, 1156-67.	5.0	61
83	Automatic quantification of myocardial perfusion stress-rest change: a new measure of ischemia. Journal of Nuclear Medicine, 2004, 45, 183-91.	5.0	60
84	Combined evaluation of regional coronary artery calcium and myocardial perfusion by 82Rb PET/CT in the identification of obstructive coronary artery disease. European Journal of Nuclear Medicine and Molecular Imaging, 2018, 45, 521-529.	6.4	58
85	Algorithm for radiation dose reduction with helical dual source coronary computed tomography angiography in clinical practice. Journal of Cardiovascular Computed Tomography, 2008, 2, 311-322.	1.3	57
86	The importance of population-specific normal database for quantification of myocardial ischemia: comparison between Japanese 360 and 180-degree databases and a US database. Journal of Nuclear Cardiology, 2009, 16, 422-430.	2.1	57
87	Solid-State Detector SPECT Myocardial Perfusion Imaging. Journal of Nuclear Medicine, 2019, 60, 1194-1204.	5.0	57
88	Prediction of cardiac death after adenosine myocardial perfusion SPECT based on machine learning. Journal of Nuclear Cardiology, 2019, 26, 1746-1754.	2.1	57
89	Relationship of epicardial fat volume to coronary plaque, severe coronary stenosis, and high-risk coronary plaque features assessed by coronary CT angiography. Journal of Cardiovascular Computed Tomography, 2013, 7, 125-132.	1.3	56
90	Automatic Valve Plane Localization in Myocardial Perfusion SPECT/CT by Machine Learning: Anatomic and Clinical Validation. Journal of Nuclear Medicine, 2017, 58, 961-967.	5.0	56

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91	Quantitative myocardial-perfusion SPECT: Comparison of three state-of-the-art software packages. Journal of Nuclear Cardiology, 2008, 15, 27-34.	2.1	55
92	Automated quantitative Rb-82 3D PET/CT myocardial perfusion imaging: Normal limits and correlation with invasive coronary angiography. Journal of Nuclear Cardiology, 2012, 19, 265-276.	2.1	55
93	Relationship Between Quantitative Adverse Plaque Features From Coronary Computed Tomography Angiography and Downstream Impaired Myocardial Flow Reserve by ¹³ N-Ammonia Positron Emission Tomography. Circulation: Cardiovascular Imaging, 2015, 8, e003255.	2.6	55
94	High-efficiency SPECT MPI: Comparison of automated quantification, visual interpretation, and coronary angiography. Journal of Nuclear Cardiology, 2013, 20, 763-773.	2.1	53
95	Myocardial perfusion imaging with PET. Imaging in Medicine, 2013, 5, 35-46.	0.0	52
96	Machine Learning Adds to Clinical and CAC Assessments in Predicting 10-Year CHD and CVD Deaths. JACC: Cardiovascular Imaging, 2021, 14, 615-625.	5.3	52
97	Simplified normal limits and automated quantitative assessment for attenuation-corrected myocardial perfusion SPECT. Journal of Nuclear Cardiology, 2006, 13, 642-651.	2.1	51
98	Predicting success of prospective and retrospective gating with dual-source coronary computed tomography angiography: Development of selection criteria and initial experience. Journal of Cardiovascular Computed Tomography, 2008, 2, 81-90.	1.3	51
99	Interscan reproducibility of computer-aided epicardial and thoracic fat measurement from noncontrast cardiac CT. Journal of Cardiovascular Computed Tomography, 2011, 5, 172-179.	1.3	51
100	Combined quantitative supine-prone myocardial perfusion SPECT improves detection of coronary artery disease and normalcy rates in women. Journal of Nuclear Cardiology, 2007, 14, 44-52.	2.1	50
101	Combined Quantitative Assessment of Myocardial Perfusion and Coronary Artery Calcium Score by Hybrid ⁸²Rb PET/CT Improves Detection of Coronary Artery Disease. Journal of Nuclear Medicine, 2015, 56, 1345-1350.	5.0	50
102	Standardized volumetric plaque quantification and characterization from coronary CT angiography: a head-to-head comparison with invasive intravascular ultrasound. European Radiology, 2019, 29, 6129-6139.	4.5	50
103	Predictors of 18F-sodium fluoride uptake in patients with stable coronary artery disease and adverse plaque features on computed tomography angiography. European Heart Journal Cardiovascular Imaging, 2020, 21, 58-66.	1.2	50
104	Whole-vessel coronary 18F-sodium fluoride PET for assessment of the global coronary microcalcification burden. European Journal of Nuclear Medicine and Molecular Imaging, 2020, 47, 1736-1745.	6.4	50
105	Combined quantitative analysis of attenuation corrected and non-corrected myocadial perfusion SPECT: Method development and clinical validation. Journal of Nuclear Cardiology, 2010, 17, 591-599.	2.1	49
106	Transient ischemic dilation for coronary artery disease in quantitative analysis of same-day sestamibi myocardial perfusion SPECT. Journal of Nuclear Cardiology, 2012, 19, 465-473.	2.1	49
107	Interscan reproducibility of quantitative coronary plaque volume and composition from CT coronary angiography using an automated method. European Radiology, 2014, 24, 2300-2308.	4.5	49
108	Epicardial adipose tissue volume but not density is an independent predictor for myocardial ischemia. Journal of Cardiovascular Computed Tomography, 2016, 10, 141-149.	1.3	49

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109	Automatic determination of cardiovascular risk by CT attenuation correction maps in Rb-82 PET/CT. Journal of Nuclear Cardiology, 2018, 25, 2133-2142.	2.1	49
110	Automated Quality Control for Segmentation of Myocardial Perfusion SPECT. Journal of Nuclear Medicine, 2009, 50, 1418-1426.	5.0	48
111	Quantitative analysis of perfusion studies: Strengths and pitfalls. Journal of Nuclear Cardiology, 2012, 19, 338-346.	2.1	48
112	Epicardial adipose tissue is associated with extent of pneumonia and adverse outcomes in patients with COVID-19. Metabolism: Clinical and Experimental, 2021, 115, 154436.	3.4	48
113	Imaging of coronary atherosclerosis â€” evolution towards new treatment strategies. Nature Reviews Cardiology, 2016, 13, 533-548.	13.7	47
114	Are Shades of Gray Prognostically Useful in Reporting Myocardial Perfusion Single-Photon Emission Computed Tomography?. Circulation: Cardiovascular Imaging, 2009, 2, 290-298.	2.6	46
115	Pericoronary Adipose Tissue Attenuation, Low-Attenuation Plaque Burden, and 5-Year Risk of Myocardial Infarction. JACC: Cardiovascular Imaging, 2022, 15, 1078-1088.	5.3	46
116	Dual-Gated Motion-Frozen Cardiac PET with Flurpiridaz F 18. Journal of Nuclear Medicine, 2015, 56, 1876-1881.	5.0	45
117	Quantitative high-efficiency cadmium-zinc-telluride SPECT with dedicated parallel-hole collimation system in obese patients: Results of a multi-center study. Journal of Nuclear Cardiology, 2015, 22, 266-275.	2.1	45
118	Triple-gated motion and blood pool clearance corrections improve reproducibility of coronary 18F-NaF PET. European Journal of Nuclear Medicine and Molecular Imaging, 2019, 46, 2610-2620.	6.4	45
119	Position paper of the EACVI and EANM on artificial intelligence applications in multimodality cardiovascular imaging using SPECT/CT, PET/CT, and cardiac CT. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 48, 1399-1413.	6.4	45
120	Three-Hour Delayed Imaging Improves Assessment of Coronary ¹⁸F-Sodium Fluoride PET. Journal of Nuclear Medicine, 2019, 60, 530-535.	5.0	44
121	Clinical Deployment of Explainable Artificial Intelligence of SPECT for Diagnosis of Coronary Artery Disease. JACC: Cardiovascular Imaging, 2022, 15, 1091-1102.	5.3	44
122	Optimization of reconstruction and quantification of motion-corrected coronary PET-CT. Journal of Nuclear Cardiology, 2020, 27, 494-504.	2.1	43
123	Coronary ¹⁸ F-Fluoride Uptake and Progression of Coronary Artery Calcification. Circulation: Cardiovascular Imaging, 2020, 13, e011438.	2.6	43
124	Nuclear Medicine and Artificial Intelligence: Best Practices for Algorithm Development. Journal of Nuclear Medicine, 2022, 63, 500-510.	5.0	43
125	Image quality and artifacts in coronary CT angiography with dual-source CT: Initial clinical experience. Journal of Cardiovascular Computed Tomography, 2008, 2, 105-114.	1.3	42
126	Solid-State SPECT technology: fast and furious. Journal of Nuclear Cardiology, 2010, 17, 890-896.	2.1	42

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127	Left ventricular dyssynchrony assessed by gated SPECT phase analysis is an independent predictor of death in patients with advanced coronary artery disease and reduced left ventricular function not undergoing cardiac resynchronization therapy. European Journal of Nuclear Medicine and Molecular Imaging, 2012, 39, 1561-1569.	6.4	42
128	Clinical value of supine and upright myocardial perfusion imaging in obese patients using the D-SPECT camera. Journal of Nuclear Cardiology, 2014, 21, 478-485.	2.1	42
129	Enhanced definition PET for cardiac imaging. Journal of Nuclear Cardiology, 2010, 17, 414-426.	2.1	41
130	Assessment of the relationship between stenosis severity and distribution of coronary artery stenoses on multislice computed tomographic angiography and myocardial ischemia detected by single photon emission computed tomography. Journal of Nuclear Cardiology, 2010, 17, 791-802.	2.1	40
131	Motion frozen 18F-FDG cardiac PET. Journal of Nuclear Cardiology, 2011, 18, 259-266.	2.1	40
132	The role of PET quantification in cardiovascular imaging. Clinical and Translational Imaging, 2014, 2, 343-358.	2.1	40
133	Attenuation correction in cardiac SPECT: The boy who cried wolf?. Journal of Nuclear Cardiology, 2007, 14, 25-35.	2.1	39
134	Comparison of Myocardial Perfusion ⁸²Rb PET Performed with CT- and Transmission CTâ€“Based Attenuation Correction. Journal of Nuclear Medicine, 2008, 49, 1992-1998.	5.0	39
135	Prognostic value of quantitative high-speed myocardial perfusion imaging. Journal of Nuclear Cardiology, 2012, 19, 1113-1123.	2.1	39
136	Predictors of high-risk coronary artery disease in subjects with normal SPECT myocardial perfusion imaging. Journal of Nuclear Cardiology, 2016, 23, 530-541.	2.1	39
137	Data-Driven Gross Patient Motion Detection and Compensation: Implications for Coronary ¹⁸F-NaF PET Imaging. Journal of Nuclear Medicine, 2019, 60, 830-836.	5.0	39
138	Artificial Intelligence in Cardiovascular Imaging for Risk Stratification in Coronary Artery Disease. Radiology: Cardiothoracic Imaging, 2021, 3, e200512.	2.5	39
139	Left ventricular shape index assessed by gated stress myocardial perfusion SPECT: Initial description of a new variable. Journal of Nuclear Cardiology, 2006, 13, 652-659.	2.1	38
140	Prognostically safe stress-only single-photon emission computed tomography myocardial perfusion imaging guided by machine learning: report from REFINE SPECT. European Heart Journal Cardiovascular Imaging, 2021, 22, 705-714.	1.2	38
141	Intramyocardial Hemorrhage and the â€œWave Frontâ€•of Reperfusion Injury Compromising Myocardial Salvage. Journal of the American College of Cardiology, 2022, 79, 35-48.	2.8	38
142	Quantitative Diagnostic Performance of Myocardial Perfusion SPECT with Attenuation Correction in Women. Journal of Nuclear Medicine, 2008, 49, 915-922.	5.0	37
143	Machine learning integration of circulating and imaging biomarkers for explainable patient-specific prediction of cardiac events: A prospective study. Atherosclerosis, 2021, 318, 76-82.	0.8	37
144	Feasibility of Coronary ¹⁸ F-Sodium Fluoride Positron-Emission Tomography Assessment With the Utilization of Previously Acquired Computed Tomography Angiography. Circulation: Cardiovascular Imaging, 2018, 11, e008325.	2.6	36

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145	Motion-Frozen Myocardial Perfusion SPECT Improves Detection of Coronary Artery Disease in Obese Patients. Journal of Nuclear Medicine, 2008, 49, 1075-1079.	5.0	35
146	Investigation of dose reduction in cardiac perfusion SPECT via optimization and choice of the image reconstruction strategy. Journal of Nuclear Cardiology, 2018, 25, 2117-2128.	2.1	35
147	Repeatability of quantitative pericoronary adipose tissue attenuation and coronary plaque burden from coronary CT angiography. Journal of Cardiovascular Computed Tomography, 2021, 15, 81-84.	1.3	35
148	Automated image registration of gated cardiac single-photon emission computed tomography and magnetic resonance imaging. Journal of Magnetic Resonance Imaging, 2004, 19, 283-290.	3.4	34
149	Gated myocardial perfusion single photon emission computed tomography in the clinical outcomes utilizing revascularization and aggressive drug evaluation (COURAGE) trial, Veterans Administration Cooperative study no. 424. Journal of Nuclear Cardiology, 2006, 13, 685-698.	2.1	34
150	Automatic 3D registration of dynamic stress and rest ⁸²Rb and flurpiridaz F 18 myocardial perfusion PET data for patient motion detection and correction. Medical Physics, 2011, 38, 6313-6326.	3.0	34
151	Improvement in PET myocardial perfusion image quality and quantification with flurpiridaz F 18. Journal of Nuclear Cardiology, 2012, 19, 38-45.	2.1	34
152	Enhancing Cardiac PET by Motion Correction Techniques. Current Cardiology Reports, 2017, 19, 14.	2.9	34
153	Machine Learning with ¹⁸F-Sodium Fluoride PET and Quantitative Plaque Analysis on CT Angiography for the Future Risk of Myocardial Infarction. Journal of Nuclear Medicine, 2022, 63, 158-165.	5.0	34
154	Automatic registration of misaligned CT attenuation correction maps in Rb-82 PET/CT improves detection of angiographically significant coronary artery disease. Journal of Nuclear Cardiology, 2015, 22, 1285-1295.	2.1	33
155	Metabolic syndrome, fatty liver, and artificial intelligence-based epicardial adipose tissue measures predict long-term risk of cardiac events: a prospective study. Cardiovascular Diabetology, 2021, 20, 27.	6.8	33
156	The amount of dysfunctional but viable myocardium predicts long-term survival in patients with ischemic cardiomyopathy and left ventricular dysfunction. International Journal of Cardiovascular Imaging, 2013, 29, 1645-1653.	1.5	32
157	Automated pericardium delineation and epicardial fat volume quantification from noncontrast CT. Medical Physics, 2015, 42, 5015-5026.	3.0	32
158	Analytical quantification of aortic valve 18F-sodium fluoride PET uptake. Journal of Nuclear Cardiology, 2020, 27, 962-972.	2.1	32
159	Quantitative Burden of COVID-19 Pneumonia at Chest CT Predicts Adverse Outcomes: A Post Hoc Analysis of a Prospective International Registry. Radiology: Cardiothoracic Imaging, 2020, 2, e200389.	2.5	32
160	Native Aortic Valve Disease Progression and Bioprosthetic Valve Degeneration in Patients With Transcatheter Aortic Valve Implantation. Circulation, 2021, 144, 1396-1408.	1.6	32
161	Contrast-enhanced computed tomography assessment of aortic stenosis. Heart, 2021, 107, 1905-1911.	2.9	32
162	Quantitative plaque features from coronary computed tomography angiography to identify regional ischemia by myocardial perfusion imaging. European Heart Journal Cardiovascular Imaging, 2017, 18, 499-507.	1.2	31

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