

Dominik C Benz

List of Publications by Year in descending order

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75
papers

1,278
citations

394421

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434195

31
g-index

76
all docs

76
docs citations

76
times ranked

1652
citing authors

#	ARTICLE	IF	CITATIONS
1	A guide for Gensini Score calculation. <i>Atherosclerosis</i> , 2019, 287, 181-183.	0.8	131
2	Validation of deep-learning image reconstruction for coronary computed tomography angiography: Impact on noise, image quality and diagnostic accuracy. <i>Journal of Cardiovascular Computed Tomography</i> , 2020, 14, 444-451.	1.3	105
3	Automatic Valve Plane Localization in Myocardial Perfusion SPECT/CT by Machine Learning: Anatomic and Clinical Validation. <i>Journal of Nuclear Medicine</i> , 2017, 58, 961-967.	5.0	56
4	Minimized Radiation and Contrast Agent Exposure for Coronary Computed Tomography Angiography: First Clinical Experience on a Latest Generation 256-slice Scanner. <i>Academic Radiology</i> , 2016, 23, 1008-1014.	2.5	48
5	Outcome in middle-aged individuals with anomalous origin of the coronary artery from the opposite sinus: a matched cohort study. <i>European Heart Journal</i> , 2017, 38, 2009-2016.	2.2	41
6	Adaptive Statistical Iterative Reconstruction-V. <i>Journal of Computer Assisted Tomography</i> , 2016, 40, 958-963.	0.9	39
7	Artificial intelligence for detecting small FDG-positive lung nodules in digital PET/CT: impact of image reconstructions on diagnostic performance. <i>European Radiology</i> , 2020, 30, 2031-2040.	4.5	39
8	Non-invasive screening for coronary artery disease in asymptomatic diabetic patients: a systematic review and meta-analysis of randomised controlled trials. <i>European Heart Journal Cardiovascular Imaging</i> , 2018, 19, 838-846.	1.2	36
9	Catheter interventional treatment of congenital portosystemic venous shunts in childhood. <i>Catheterization and Cardiovascular Interventions</i> , 2016, 87, 1281-1292.	1.7	35
10	Hybrid SPECT Perfusion Imaging and Coronary CT Angiography: Long-term Prognostic Value for Cardiovascular Outcomes. <i>Radiology</i> , 2018, 288, 694-702.	7.3	35
11	Hybrid CCTA/SPECT myocardial perfusion imaging findings in patients with anomalous origin of coronary arteries from the opposite sinus and suspected concomitant coronary artery disease. <i>Journal of Nuclear Cardiology</i> , 2017, 24, 226-234.	2.1	34
12	Ultra-low-dose coronary artery calcium scoring using novel scoring thresholds for low tube voltage protocols—a pilot study. <i>European Heart Journal Cardiovascular Imaging</i> , 2018, 19, 1362-1371.	1.2	34
13	Prevalence and characteristics of coronary artery anomalies detected by coronary computed tomography angiography in 5634 consecutive patients in a single centre in Switzerland. <i>Swiss Medical Weekly</i> , 2016, 146, w14294.	1.6	32
14	Age- and sex-dependent changes in sympathetic activity of the left ventricular apex assessed by 18F-DOPA PET imaging. <i>PLoS ONE</i> , 2018, 13, e0202302.	2.5	29
15	Head-to-head comparison of adaptive statistical and model-based iterative reconstruction algorithms for submillisievert coronary CT angiography. <i>European Heart Journal Cardiovascular Imaging</i> , 2018, 19, 193-198.	1.2	24
16	Association between resting amygdalar activity and abnormal cardiac function in women and men: a retrospective cohort study. <i>European Heart Journal Cardiovascular Imaging</i> , 2019, 20, 625-632.	1.2	24
17	Sex Differences in the Association between Inflammation and Ischemic Heart Disease. <i>Thrombosis and Haemostasis</i> , 2019, 119, 1471-1480.	3.4	22
18	Impact of monochromatic coronary computed tomography angiography from single-source dual-energy CT on coronary stenosis quantification. <i>Journal of Cardiovascular Computed Tomography</i> , 2016, 10, 135-140.	1.3	21

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19	Long-term prognostic performance of low-dose coronary computed tomography angiography with prospective electrocardiogram triggering. <i>European Radiology</i> , 2017, 27, 4650-4660.	4.5	21
20	Fused cardiac hybrid imaging with coronary computed tomography angiography and positron emission tomography in patients with complex coronary artery anomalies. <i>Congenital Heart Disease</i> , 2017, 12, 49-57.	0.2	21
21	Sex differences in the long-term prognostic value of ¹³ N-ammonia myocardial perfusion positron emission tomography. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2018, 45, 1964-1974.	6.4	21
22	Radiation dose reduction with deep-learning image reconstruction for coronary computed tomography angiography. <i>European Radiology</i> , 2022, 32, 2620-2628.	4.5	21
23	A three-dimensional quantification of calcified and non-calcified plaques in coronary arteries based on computed tomography coronary angiography images: Comparison with expert's annotations and virtual histology intravascular ultrasound. <i>Computers in Biology and Medicine</i> , 2019, 113, 103409.	7.0	20
24	Imaging the event-prone coronary artery plaque. <i>Journal of Nuclear Cardiology</i> , 2019, 26, 141-153.	2.1	20
25	Sudden Cardiac Death in Ischemic Heart Disease. <i>JACC: Cardiovascular Imaging</i> , 2020, 13, 2223-2238.	5.3	20
26	Ultra-low-dose hybrid single photon emission computed tomography and coronary computed tomography angiography: a comprehensive and non-invasive diagnostic workup of suspected coronary artery disease. <i>European Heart Journal</i> , 2015, 36, 3345-3345.	2.2	19
27	Heart rate reserve during pharmacological stress is a significant negative predictor of impaired coronary flow reserve in women. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2019, 46, 1257-1267.	6.4	18
28	Quantification of perivascular inflammation does not provide incremental prognostic value over myocardial perfusion imaging and calcium scoring. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 1806-1812.	6.4	17
29	Prognostic Value of Quantitative Metrics From Positron Emission Tomography in Ischemic Heart Failure. <i>JACC: Cardiovascular Imaging</i> , 2021, 14, 454-464.	5.3	16
30	Myocardial blood flow and cardiac sympathetic innervation in young adults late after arterial switch operation for transposition of the great arteries. <i>International Journal of Cardiology</i> , 2020, 299, 110-115.	1.7	14
31	Corrected coronary opacification decrease from coronary computed tomography angiography: Validation with quantitative ¹³ N-ammonia positron emission tomography. <i>Journal of Nuclear Cardiology</i> , 2019, 26, 561-568.	2.1	13
32	Role of quantitative myocardial blood flow and ¹³ N-ammonia washout for viability assessment in ischemic cardiomyopathy. <i>Journal of Nuclear Cardiology</i> , 2021, 28, 263-273.	2.1	13
33	Real-time respiratory triggered SPECT myocardial perfusion imaging using CZT technology: impact of respiratory phase matching between SPECT and low-dose CT for attenuation correction. <i>European Heart Journal Cardiovascular Imaging</i> , 2017, 18, 31-38.	1.2	12
34	A low-dose and an ultra-low-dose contrast agent protocol for coronary CT angiography in a clinical setting: quantitative and qualitative comparison to a standard dose protocol. <i>British Journal of Radiology</i> , 2017, 90, 20160933.	2.2	12
35	Long-term outcome prediction by functional parameters derived from coronary computed tomography angiography. <i>International Journal of Cardiology</i> , 2017, 243, 533-537.	1.7	12
36	Impact of cardiac hybrid imaging-guided patient management on clinical long-term outcome. <i>International Journal of Cardiology</i> , 2018, 261, 218-222.	1.7	12

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37	Value of 12-lead electrocardiogram to predict myocardial scar on FDG PET in heart failure patients. <i>Journal of Nuclear Cardiology</i> , 2021, 28, 1364-1373.	2.1	12
38	Heart rate reserve is a long-term risk predictor in women undergoing myocardial perfusion imaging. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2019, 46, 2032-2041.	6.4	12
39	Splenic switch-off as a predictor for coronary adenosine response: validation against ¹³ N-ammonia during co-injection myocardial perfusion imaging on a hybrid PET/CMR scanner. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021, 23, 3.	3.3	12
40	Splenic switch-off as a novel marker for adenosine response in nitrogen-13 ammonia PET myocardial perfusion imaging: Cross-validation against CMR using a hybrid PET/MR device. <i>Journal of Nuclear Cardiology</i> , 2022, 29, 1205-1214.	2.1	12
41	Quantification of epicardial and intrathoracic fat volume does not provide an added prognostic value as an adjunct to coronary artery calcium score and myocardial perfusion single-photon emission computed tomography. <i>European Heart Journal Cardiovascular Imaging</i> , 2016, 17, 885-891.	1.2	11
42	Sex and age differences in the association of heart rate responses to adenosine and myocardial ischemia in patients undergoing myocardial perfusion imaging. <i>Journal of Nuclear Cardiology</i> , 2020, 27, 159-170.	2.1	11
43	Ultra-low-dose computed tomography for attenuation correction of cadmium-zinc-telluride single photon emission computed tomography myocardial perfusion imaging. <i>Journal of Nuclear Cardiology</i> , 2020, 27, 228-237.	2.1	10
44	No differences in rest myocardial blood flow in stunned and hibernating myocardium: insights into the pathophysiology of ischemic cardiomyopathy. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2019, 46, 2322-2328.	6.4	9
45	Quantification of intrathoracic fat adds prognostic value in women undergoing myocardial perfusion imaging. <i>International Journal of Cardiology</i> , 2019, 292, 258-264.	1.7	9
46	Sports Behavior in Middle-Aged Individuals with Anomalous Coronary Artery from the Opposite Sinus of Valsalva. <i>Cardiology</i> , 2018, 139, 222-230.	1.4	7
47	Association between vertebral bone mineral density, myocardial perfusion, and long-term cardiovascular outcomes: A sex-specific analysis. <i>Journal of Nuclear Cardiology</i> , 2020, 27, 726-736.	2.1	7
48	Association of left bundle branch block with obstructive coronary artery disease on coronary CT angiography: a case-control study. <i>European Heart Journal Cardiovascular Imaging</i> , 2016, 17, 765-771.	1.2	6
49	The right timing for post-ischemic stunning. <i>Journal of Nuclear Cardiology</i> , 2017, 24, 1302-1304.	2.1	6
50	Coronary artery volume index: a novel CCTA-derived predictor for cardiovascular events. <i>International Journal of Cardiovascular Imaging</i> , 2020, 36, 713-722.	1.5	6
51	Diagnostic accuracy of coronary opacification derived from coronary computed tomography angiography to detect ischemia: first validation versus single-photon emission computed tomography. <i>EJNMMI Research</i> , 2017, 7, 92.	2.5	5
52	Fractional flow reserve as the standard of reference: All that glistens is not gold. <i>Journal of Nuclear Cardiology</i> , 2020, 27, 1314-1316.	2.1	5
53	Prognostic value of regional myocardial flow reserve derived from ¹³ N-ammonia positron emission tomography in patients with suspected coronary artery disease. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 49, 311-320.	6.4	5
54	Enhanced radiation exposure associated with anterior-posterior x-ray tube position in young women undergoing cardiac computed tomography. <i>American Heart Journal</i> , 2019, 215, 91-94.	2.7	4

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55	Metabolic Activity in Central Neural Structures of Patients With Myocardial Injury. <i>Journal of the American Heart Association</i> , 2019, 8, e013070.	3.7	4
56	Myocardial creep-induced misalignment artifacts in PET/MR myocardial perfusion imaging. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 406-413.	6.4	4
57	Third-degree atrioventricular block: tip of the iceberg of a systemic disease. <i>European Heart Journal</i> , 2017, 38, 1349-1349.	2.2	3
58	How to stop breathing: On the matter of getting respiratory motion under control. <i>Journal of Nuclear Cardiology</i> , 2017, 24, 1608-1609.	2.1	3
59	Breathless or breathtaking: Respiratory motion correction. <i>Journal of Nuclear Cardiology</i> , 2018, 25, 429-432.	2.1	3
60	Cardiac resynchronization therapy in chronic heart failure: Effect on right ventricular function. <i>Journal of Nuclear Cardiology</i> , 2019, 26, 133-135.	2.1	3
61	The winding road towards respiratory motion correction: is this just another dead-end or do we finally get breathing under control?. <i>Journal of Nuclear Cardiology</i> , 2020, 27, 2231-2233.	2.1	3
62	Impact of Adaptive Statistical Iterative Reconstruction-V on Coronary Artery Calcium Scores Obtained From Low-Tube-Voltage Computed Tomography – A Patient Study. <i>Academic Radiology</i> , 2020, , .	2.5	3
63	Low-dose CT from myocardial perfusion SPECT/CT allows the detection of anemia in preoperative patients. <i>Journal of Nuclear Cardiology</i> , 2022, 29, 3236-3247.	2.1	3
64	Interventional closure of RPA-to-LA communication in an oligosymptomatic neonate. <i>European Journal of Pediatrics</i> , 2014, 173, 1703-1705.	2.7	2
65	Moving ahead with CZT technology. <i>Journal of Nuclear Cardiology</i> , 2016, 23, 527-528.	2.1	2
66	Extracardiac findings on computed tomography attenuation correction: Is it worth paying extra attention?. <i>Journal of Nuclear Cardiology</i> , 2018, 25, 1584-1587.	2.1	2
67	How equilibrium radionuclide angiography can quantify tricuspid regurgitation. <i>Journal of Nuclear Cardiology</i> , 2021, 28, 873-875.	2.1	1
68	Association between beta-adrenoceptor antagonist-induced sympathicolysis and severity of coronary artery disease as assessed by coronary computed tomography angiography (CCTA). <i>International Journal of Cardiovascular Imaging</i> , 2019, 35, 927-936.	1.5	1
69	Potential of Radiation Dose Reduction by Optimizing Z-Axis Coverage in Coronary Computed Tomography Angiography on a Latest-Generation 256-Slice Scanner. <i>Journal of Computer Assisted Tomography</i> , 2020, 44, 289-294.	0.9	1
70	Transluminal attenuation gradient derived from coronary CT angiography to predict ischemia in SPECT myocardial perfusion imaging: Effect of coronary cross-sectional area. <i>Journal of Nuclear Cardiology</i> , 2022, 29, 350-358.	2.1	1
71	(18)F-sodium fluoride PET in multiple myeloma: Linking cancer to atherosclerosis?. <i>Journal of Nuclear Cardiology</i> , 2021, 28, 3055-3057.	2.1	1
72	Coronary artery lumen volume index as a marker of flow-limiting atherosclerosis – validation against 13N-ammonia positron emission tomography. <i>European Radiology</i> , 2021, 31, 5116-5126.	4.5	1

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73	Noninvasive Assessment of Coronary Artery Disease â€“ Anatomical versus Functional Imaging and the Marginal Role of Exercise Electrocardiograms. Praxis, 2020, 109, 1141-1149.	0.4	1
74	Do we really need to look at volumetric measurements with 99mTc single photon emission computed tomography (SPECT) myocardial perfusion imaging?. Journal of Nuclear Cardiology, 2019, 26, 1717-1719.	2.1	0
75	New insights in the assessment of left ventricular dyssynchrony: Laying the foundations for phase analysis by cardiac SPECT. Journal of Nuclear Cardiology, 2020, 27, 2280-2282.	2.1	0