MÃ¡rton KolossvÃ¡ry

List of Publications by Year
in descending order

89 papers	1,602 citations	361413 20 h-index	345221 36 g-index
95 all docs	95 docs citations	95 times ranked	1951 citing authors

#	Article	IF	Citations
1	Radiomic Features Are Superior to Conventional Quantitative Computed Tomographic Metrics to Identify Coronary Plaques With Napkin-Ring Sign. Circulation: Cardiovascular Imaging, 2017, 10, .	2.6	156
2	Cardiac Computed Tomography Radiomics. Journal of Thoracic Imaging, 2018, 33, 26-34.	1.5	146
3	Identification of invasive and radionuclide imaging markers of coronary plaque vulnerability using radiomic analysis of coronary computed tomography angiography. European Heart Journal Cardiovascular Imaging, 2019, 20, 1250-1258.	1.2	101
4	Radiomics versus Visual and Histogram-based Assessment to Identify Atheromatous Lesions at Coronary CT Angiography: An ex Vivo Study. Radiology, 2019, 293, 89-96.	7.3	88
5	Myocardial Infarction Associates With a Distinct Pericoronary Adipose Tissue Radiomic Phenotype. JACC: Cardiovascular Imaging, 2020, 13, 2371-2383.	5.3	86
6	Plaque imaging with CTâ€"a comprehensive review on coronary CT angiography based risk assessment. Cardiovascular Diagnosis and Therapy, 2017, 7, 489-506.	1.7	82
7	Advanced atherosclerosis imaging by CT: Radiomics, machine learning and deep learning. Journal of Cardiovascular Computed Tomography, 2019, 13, 274-280.	1.3	76
8	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
9	Artificial Intelligence in Cardiovascular Imaging for Risk Stratification in Coronary Artery Disease. Radiology: Cardiothoracic Imaging, 2021, 3, e200512.	2.5	39
10	Serum lipids and cardiac function correlate with nitrotyrosine and <scp>MMP</scp> activity in coronary artery disease patients. European Journal of Clinical Investigation, 2015, 45, 692-701.	3.4	38
11	Experience With an On-Site Coronary Computed Tomography-Derived Fractional Flow Reserve Algorithm for the Assessment of Intermediate Coronary Stenoses. American Journal of Cardiology, 2018, 121, 9-13.	1.6	37
12	The effect of iterative model reconstruction on coronary artery calcium quantification. International Journal of Cardiovascular Imaging, 2016, 32, 153-160.	1.5	36
13	Incomplete circle of Willis is associated with a higher incidence of neurologic events during carotid eversion endarterectomy without shunting. Journal of Vascular Surgery, 2018, 68, 1764-1771.	1.1	36
14	Effect of image reconstruction algorithms on volumetric and radiomic parameters of coronary plaques. Journal of Cardiovascular Computed Tomography, 2019, 13, 325-330.	1.3	27
15	The effect of four-phasic versus three-phasic contrast media injection protocols on extravasation rate in coronary CT angiography: a randomized controlled trial. European Radiology, 2017, 27, 4538-4543.	4.5	26
16	Radiomics-Based Precision PhenotypingÂIdentifies Unstable Coronary Plaques From Computed Tomography Angiography. JACC: Cardiovascular Imaging, 2022, 15, 859-871.	5.3	24
17	Prognostic value of early, conventional proton magnetic resonance spectroscopy in cooled asphyxiated infants. BMC Pediatrics, 2018, 18, 302.	1.7	22
18	Contribution of Risk Factors to the Development of Coronary Atherosclerosis as Confirmed via Coronary CT Angiography: A Longitudinal Radiomics-based Study. Radiology, 2021, 299, 97-106.	7.3	22

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19	Left ventricular and atrial strain imaging with cardiac computed tomography: Validation against echocardiography. Journal of Cardiovascular Computed Tomography, 2020, 14, 363-369.	1.3	21
20	Iterative model reconstruction reduces calcified plaque volume in coronary CT angiography. European Journal of Radiology, 2017, 87, 83-89.	2.6	20
21	Artificial intelligence: improving the efficiency of cardiovascular imaging. Expert Review of Medical Devices, 2020, 17, 565-577.	2.8	20
22	Artificial intelligence in cardiovascular CT: Current status and future implications. Journal of Cardiovascular Computed Tomography, 2021, 15, 462-469.	1.3	20
23	Light to moderate coffee consumption is associated with lower risk of death: a UK Biobank study. European Journal of Preventive Cardiology, 2022, 29, 982-991.	1.8	20
24	Comparison of Quantity of Coronary Atherosclerotic Plaques Detected by Computed Tomography Versus Angiography. American Journal of Cardiology, 2016, 117, 1863-1867.	1.6	19
25	Multidetector CT angiography of the Circle of Willis: association of its variants with carotid artery disease and brain ischemia. European Radiology, 2019, 29, 46-56.	4.5	19
26	Rationale, Design, and Methodological Aspects of the <scp>BUDAPESTâ€GLOBAL</scp> Study (Burden of) Tj ETQq0 0 0 rgBT /Overlock Clinical Cardiology, 2015, 38, 699-707.	1.8	18
27	Comprehensive coronary plaque assessment in patients with obstructive sleep apnea. Journal of Sleep Research, 2019, 28, e12828.	3.2	17
28	Structured reporting platform improves CAD-RADS assessment. Journal of Cardiovascular Computed Tomography, 2017, 11, 449-454.	1.3	16
29	Effect of vessel wall segmentation on volumetric and radiomic parameters of coronary plaques with adverse characteristics. Journal of Cardiovascular Computed Tomography, 2021, 15, 137-145.	1.3	16
30	Left atrial appendage size is a marker of atrial fibrillation recurrence after radiofrequency catheter ablation in patients with persistent atrial fibrillation. Clinical Cardiology, 2022, 45, 273-281.	1.8	15
31	Neurodevelopmental effect of intracranial hemorrhage observed in hypoxic ischemic brain injury in hypothermia-treated asphyxiated neonates - an MRI study. BMC Pediatrics, 2019, 19, 430.	1.7	14
32	Heritability of Coronary Artery Disease: Insights From a Classical Twin Study. Circulation: Cardiovascular Imaging, 2022, 15, e013348.	2.6	14
33	Inverse association between hyperthymic affective temperament and coronary atherosclerosis: A coronary computed tomography angiography study. Journal of Psychosomatic Research, 2017, 103, 108-112.	2.6	12
34	Association between Cyclothymic Affective Temperament and Age of Onset of Hypertension. International Journal of Hypertension, 2019, 2019, 1-6.	1.3	12
35	Quantitative CT assessment identifies more heart transplanted patients with progressive coronary wall thickening than standard clinical read. Journal of Cardiovascular Computed Tomography, 2019, 13, 128-133.	1.3	12
36	Increased visceral arterial tortuosity in Marfan syndrome. Orphanet Journal of Rare Diseases, 2020, 15, 91.	2.7	12

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37	Orientation of the right superior pulmonary vein affects outcome after pulmonary vein isolation. European Heart Journal Cardiovascular Imaging, 2022, 23, 515-523.	1.2	12
38	Proteomic Signature of Subclinical Coronary Artery Disease in People With HIV: Analysis of the REPRIEVE Mechanistic Substudy. Journal of Infectious Diseases, 2022, 226, 1809-1822.	4.0	11
39	Calcium scoring: a personalized probability assessment predicts the need for additional or alternative testing to coronary CT angiography. European Radiology, 2020, 30, 5499-5506.	4.5	10
40	The association between accelerated vascular aging and cyclothymic affective temperament in women. Journal of Psychosomatic Research, 2021, 145, 110423.	2.6	10
41	Abutting Left Atrial Appendage and Left Superior Pulmonary Vein Predicts Recurrence of Atrial Fibrillation After Point-by-Point Pulmonary Vein Isolation. Frontiers in Cardiovascular Medicine, 2022, 9, 708298.	2.4	10
42	Subclinical leaflet thrombosis is associated with impaired reverse remodelling after transcatheter aortic valve implantation. European Heart Journal Cardiovascular Imaging, 2020, 21, 1144-1151.	1.2	9
43	Image Quality of Prospectively ECG-Triggered Coronary CT Angiography in Heart Transplant Recipients. American Journal of Roentgenology, 2018, 210, 314-319.	2.2	8
44	Assessing genetic and environmental influences on epicardial and abdominal adipose tissue quantities: a classical twin study. International Journal of Obesity, 2018, 42, 163-168.	3.4	8
45	Genetically determined pattern of left ventricular function in normal and hypertensive hearts. Journal of Clinical Hypertension, 2018, 20, 949-958.	2.0	8
46	Coronary plaque burden of the left anterior descending artery in patients with or without myocardial bridge: A case-control study based on coronary CT-angiography. International Journal of Cardiology, 2021, 327, 231-235.	1.7	8
47	Association between affective temperaments and severe coronary artery disease. Journal of Affective Disorders, 2021, 295, 914-919.	4.1	7
48	Right Ventricular Adaptation Is Associated with the Glu298Asp Variant of the NOS3 Gene in Elite Athletes. PLoS ONE, 2015, 10, e0141680.	2.5	7
49	The effect of left atrial wall thickness and pulmonary vein sizes on the acute procedural success of atrial fibrillation ablation. International Journal of Cardiovascular Imaging, 2022, , 1.	1.5	7
50	Deep learningâ€“based atherosclerotic coronary plaque segmentation on coronary CT angiography. European Radiology, 2022, 32, 7217-7226.	4.5	7
51	Radiomics. Circulation: Cardiovascular Imaging, 2019, 12, e009990.	2.6	6
52	CAD-RADS may underestimate coronary plaque progression as detected by serial CT angiography. European Heart Journal Cardiovascular Imaging, 2022, 23, 1530-1539.	1.2	6
53	Correlation between Coronary Artery Calcium- and Different Cardiovascular Risk Score-Based Methods for the Estimation of Vascular Age in Caucasian Patients. Journal of Clinical Medicine, 2022, 11, 1111.	2.4	6
54	Quantification of hypo-attenuated leaflet thickening after transcatheter aortic valve implantation: clinical relevance of hypo-attenuated leaflet thickening volume. European Heart Journal Cardiovascular Imaging, 2020, 21, 1395-1404.	1.2	5

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55	Anatomical Characteristics of the Left Atrium and Left Atrial Appendage in Relation to the Risk of Stroke in Patients With Versus Without Atrial Fibrillation. Circulation: Arrhythmia and Electrophysiology, 2021, 14, e009777.	4.8	5
56	Are risk factors necessary for pretest probability assessment of coronary artery disease? A patient similarity network analysis of the PROMISE trial. Journal of Cardiovascular Computed Tomography, 2022, 16, 397-403.	1.3	5
57	Aortic root dimensions are predominantly determined by genetic factors: a classical twin study. European Radiology, 2017, 27, 2419-2425.	4.5	4
58	CT Images Are Noninferior to Anatomic Specimens in Teaching Cardiac Anatomyâ€"A Randomized Quantitative Study. Journal of the American College of Radiology, 2017, 14, 409-415.e2.	1.8	4
59	Environmental Factors Slightly Outweigh Genetic Influences in the Development of Pancreatic Lipid Accumulation: A Classical Twin Study. Metabolic Syndrome and Related Disorders, 2020, 18, 413-418.	1.3	4
60	Sex-specific associations between alcohol consumption, cardiac morphology, and function as assessed by magnetic resonance imaging: insights form the UK Biobank Population Study. European Heart Journal Cardiovascular Imaging, 2021, 22, 1009-1016.	1.2	4
61	Cardiovascular risk factors and illicit drug use may have a more profound effect on coronary atherosclerosis progression in people living with HIV. European Radiology, 2021, 31, 2756-2767.	4.5	4
62	The Predictive Value of Left Atrial Strain Following Transcatheter Aortic Valve Implantation on Anatomical and Functional Reverse Remodeling in a Multi-Modality Study. Frontiers in Cardiovascular Medicine, 2022, 9, 841658.	2.4	4
63	Cyclothymic affective temperament is independently associated with left ventricular hypertrophy in chronic hypertensive patients. Journal of Psychosomatic Research, 2022, 160, 110988.	2.6	4
64	Long-term cocaine use is associated with increased coronary plaque burden â€“ a pilot study. American Journal of Drug and Alcohol Abuse, 2020, 46, 805-811.	2.1	3
65	Standardised computed tomographic assessment of left atrial morphology and tissue thickness in humans. IJC Heart and Vasculature, 2021, 32, 100694.	1.1	3
66	Model-based adaptive filter for a dedicated cardiovascular CT scanner: Assessment of image noise, sharpness and quality. European Journal of Radiology, 2021, 145, 110032.	2.6	3
67	Spatial analysis of factors impacting lower limb major amputation rates in Hungary. Vasa - European Journal of Vascular Medicine, 2022, 51, 158-166.	1.4	3
68	Temporal assessment of lesion morphology on radiological images beyond lesion volumesâ€"a proof-of-principle study. European Radiology, 2022, 32, 8748-8760.	4.5	3
69	FT02. Incomplete Circle of Willis Is Associated With a Higher Incidence of Neurologic Events During Carotid Eversion Endarterectomy Without Shunting. Journal of Vascular Surgery, 2016, 63, 14S.	1.1	2
70	Cardiac CT Radiomics. Contemporary Medical Imaging, 2019, , 715-724.	0.4	2
71	Novel structured MRI reporting system in neonatal hypoxic-ischemic encephalopathy â€“ issues of development and first use experiences. Ideggyogyaszati Szemle, 2018, 71, 265-276.	0.7	2
72	Thoracic Aortic Strain is Irrelevant Regarding Endograft Sizing in Most Young Patients. Annals of Vascular Surgery, 2017, 38, 227-232.	0.9	1

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73	6176Coronary CT radiomics analysis can identify morphologically and metabolically vulnerable plaques. European Heart Journal, 2018, 39, .	2.2	1
74	Left Ventricular Systolic Function Has Strong Independent Genetic Background from Diastolic Function: A Classical Twin Study. Medicina (Lithuania), 2021, 57, 935.	2.0	1
75	A koronÃ¡ria-CT-angiogrÃ¡fia jelentÅ‘sÃ©ge a mindennapi gyakorlatban stabil anginÃ¡s betegek kÃ¶rÃ©ben. Cardiologia Hungarica, 2018, 48, 52-57.	0.1	1
76	AI Can Evaluate Cardiac Ultrasounds. JACC: Cardiovascular Imaging, 2021, , .	5.3	1
77	HIV indirectly accelerates coronary artery disease by promoting the effects of risk factors: longitudinal observational study. Scientific Reports, 2021, 11, 23110.	3.3	1
78	HIV may indirectly accelerate coronary artery disease through enhancing the effects of conventional and non-conventional cardiovascular risk factors. European Heart Journal, 2020, 41, .	2.2	1
79	The Journal of cardiovascular computed tomography: A year in review 2021. Journal of Cardiovascular Computed Tomography, 2022, , .	1.3	1
80	Editorial: Radiomics in Cardiovascular Imaging. Frontiers in Cardiovascular Medicine, 2022, 9, 876713.	2.4	1
81	Low-dose "step-and-shoot" CT in patients with atrial fibrillation: Is simultaneous assessment of the left atrium and coronary arteries feasible?. European Heart Journal, 2013, 34, P5344-P5344.	2.2	0
82	Non-invasive Assessment of Coronary Plaque Morphology. Current Radiology Reports, 2015, 3, 1.	1.4	0
83	Implementation and experiences with a structured reporting software for coronary CT angiography. Journal of Cardiovascular Computed Tomography, 2016, 10, e12-e13.	1.3	0
84	5â€…Real world experience of a novel on-site coronary ct derived fractional flow reserve algorithm for the assessment of intermediate stenoses. , 2017, , .		0
85	EVALUATION OF THE ASSOCIATION BETWEEN THE AGE AT ONSET OF HYPERTENSION AND DIFFERENT AFFECTIVE TEMPERAMENTS. Journal of Hypertension, 2018, 36, e34.	0.5	0
86	A koronÃ¡ria-CT-angiogrÃ¡fia Ã©rtelmezÃ©se Ã©s leletezÃ©se. Cardiologia Hungarica, 2017, 47, 2-9.	0.1	0
87	Van-e Ã¶sszefÃ¼ggÃ©s az epikardiÃ¡lis zsÃrszÃ¶vet Ã©s a koszorÃºÃ©r-betegsÃ©g kÃ¶zÃ¶tt?. Cardiologia Hungarica, 2017, 47, 25-29.	0.1	0
88	Effect of genetic and environmental influences on hepatic steatosis: A classical twin study based on computed tomography. Imaging, 2020, 12, 15-20.	0.3	0
89	Cocaine use and HIV-infection modify coronary plaque morphology differently than conventional cardiovascular risk factors. European Heart Journal, 2020, 41, .	2.2	0