

# Mårton Kolossváry

## List of Publications by Year in descending order

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Version: 2024-02-01

89  
papers

1,602  
citations

361296

20  
h-index

345118

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. <i>Circulation: Cardiovascular Imaging</i> , 2017, 10, .	1.3	156
2	Cardiac Computed Tomography Radiomics. <i>Journal of Thoracic Imaging</i> , 2018, 33, 26-34.	0.8	146
3	Identification of invasive and radionuclide imaging markers of coronary plaque vulnerability using radiomic analysis of coronary computed tomography angiography. <i>European Heart Journal Cardiovascular Imaging</i> , 2019, 20, 1250-1258.	0.5	101
4	Radiomics versus Visual and Histogram-based Assessment to Identify Atheromatous Lesions at Coronary CT Angiography: An ex Vivo Study. <i>Radiology</i> , 2019, 293, 89-96.	3.6	88
5	Myocardial Infarction Associates With a Distinct Pericoronary Adipose Tissue Radiomic Phenotype. <i>JACC: Cardiovascular Imaging</i> , 2020, 13, 2371-2383.	2.3	86
6	Plaque imaging with CT—a comprehensive review on coronary CT angiography based risk assessment. <i>Cardiovascular Diagnosis and Therapy</i> , 2017, 7, 489-506.	0.7	82
7	Advanced atherosclerosis imaging by CT: Radiomics, machine learning and deep learning. <i>Journal of Cardiovascular Computed Tomography</i> , 2019, 13, 274-280.	0.7	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. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 1399-1413.	3.3	45
9	Artificial Intelligence in Cardiovascular Imaging for Risk Stratification in Coronary Artery Disease. <i>Radiology: Cardiothoracic Imaging</i> , 2021, 3, e200512.	0.9	39
10	Serum lipids and cardiac function correlate with nitrotyrosine and <sc>MMP</sc> activity in coronary artery disease patients. <i>European Journal of Clinical Investigation</i> , 2015, 45, 692-701.	1.7	38
11	Experience With an On-Site Coronary Computed Tomography-Derived Fractional Flow Reserve Algorithm for the Assessment of Intermediate Coronary Stenoses. <i>American Journal of Cardiology</i> , 2018, 121, 9-13.	0.7	37
12	The effect of iterative model reconstruction on coronary artery calcium quantification. <i>International Journal of Cardiovascular Imaging</i> , 2016, 32, 153-160.	0.7	36
13	Incomplete circle of Willis is associated with a higher incidence of neurologic events during carotid eversion endarterectomy without shunting. <i>Journal of Vascular Surgery</i> , 2018, 68, 1764-1771.	0.6	36
14	Effect of image reconstruction algorithms on volumetric and radiomic parameters of coronary plaques. <i>Journal of Cardiovascular Computed Tomography</i> , 2019, 13, 325-330.	0.7	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. <i>European Radiology</i> , 2017, 27, 4538-4543.	2.3	26
16	Radiomics-Based Precision Phenotyping Identifies Unstable Coronary Plaques From Computed Tomography Angiography. <i>JACC: Cardiovascular Imaging</i> , 2022, 15, 859-871.	2.3	24
17	Prognostic value of early, conventional proton magnetic resonance spectroscopy in cooled asphyxiated infants. <i>BMC Pediatrics</i> , 2018, 18, 302.	0.7	22
18	Contribution of Risk Factors to the Development of Coronary Atherosclerosis as Confirmed via Coronary CT Angiography: A Longitudinal Radiomics-based Study. <i>Radiology</i> , 2021, 299, 97-106.	3.6	22

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19	Left ventricular and atrial strain imaging with cardiac computed tomography: Validation against echocardiography. <i>Journal of Cardiovascular Computed Tomography</i> , 2020, 14, 363-369.	0.7	21
20	Iterative model reconstruction reduces calcified plaque volume in coronary CT angiography. <i>European Journal of Radiology</i> , 2017, 87, 83-89.	1.2	20
21	Artificial intelligence: improving the efficiency of cardiovascular imaging. <i>Expert Review of Medical Devices</i> , 2020, 17, 565-577.	1.4	20
22	Artificial intelligence in cardiovascular CT: Current status and future implications. <i>Journal of Cardiovascular Computed Tomography</i> , 2021, 15, 462-469.	0.7	20
23	Light to moderate coffee consumption is associated with lower risk of death: a UK Biobank study. <i>European Journal of Preventive Cardiology</i> , 2022, 29, 982-991.	0.8	20
24	Comparison of Quantity of Coronary Atherosclerotic Plaques Detected by Computed Tomography Versus Angiography. <i>American Journal of Cardiology</i> , 2016, 117, 1863-1867.	0.7	19
25	Multidetector CT angiography of the Circle of Willis: association of its variants with carotid artery disease and brain ischemia. <i>European Radiology</i> , 2019, 29, 46-56.	2.3	19
26	Rationale, Design, and Methodological Aspects of the <sc>BUDAPESTâ€GLOBAL</sc> Study (Burden of Tj ETQq0 0 0 rgBT /Overlock Clinical Cardiology, 2015, 38, 699-707.	0.7	18
27	Comprehensive coronary plaque assessment in patients with obstructive sleep apnea. <i>Journal of Sleep Research</i> , 2019, 28, e12828.	1.7	17
28	Structured reporting platform improves CAD-RADS assessment. <i>Journal of Cardiovascular Computed Tomography</i> , 2017, 11, 449-454.	0.7	16
29	Effect of vessel wall segmentation on volumetric and radiomic parameters of coronary plaques with adverse characteristics. <i>Journal of Cardiovascular Computed Tomography</i> , 2021, 15, 137-145.	0.7	16
30	Left atrial appendage size is a marker of atrial fibrillation recurrence after radiofrequency catheter ablation in patients with persistent atrial fibrillation. <i>Clinical Cardiology</i> , 2022, 45, 273-281.	0.7	15
31	Neurodevelopmental effect of intracranial hemorrhage observed in hypoxic ischemic brain injury in hypothermia-treated asphyxiated neonates - an MRI study. <i>BMC Pediatrics</i> , 2019, 19, 430.	0.7	14
32	Heritability of Coronary Artery Disease: Insights From a Classical Twin Study. <i>Circulation: Cardiovascular Imaging</i> , 2022, 15, e013348.	1.3	14
33	Inverse association between hyperthymic affective temperament and coronary atherosclerosis: A coronary computed tomography angiography study. <i>Journal of Psychosomatic Research</i> , 2017, 103, 108-112.	1.2	12
34	Association between Cyclothymic Affective Temperament and Age of Onset of Hypertension. <i>International Journal of Hypertension</i> , 2019, 2019, 1-6.	0.5	12
35	Quantitative CT assessment identifies more heart transplanted patients with progressive coronary wall thickening than standard clinical read. <i>Journal of Cardiovascular Computed Tomography</i> , 2019, 13, 128-133.	0.7	12
36	Increased visceral arterial tortuosity in Marfan syndrome. <i>Orphanet Journal of Rare Diseases</i> , 2020, 15, 91.	1.2	12

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37	Orientation of the right superior pulmonary vein affects outcome after pulmonary vein isolation. <i>European Heart Journal Cardiovascular Imaging</i> , 2022, 23, 515-523.	0.5	12
38	Proteomic Signature of Subclinical Coronary Artery Disease in People With HIV: Analysis of the REPRIEVE Mechanistic Substudy. <i>Journal of Infectious Diseases</i> , 2022, 226, 1809-1822.	1.9	11
39	Calcium scoring: a personalized probability assessment predicts the need for additional or alternative testing to coronary CT angiography. <i>European Radiology</i> , 2020, 30, 5499-5506.	2.3	10
40	The association between accelerated vascular aging and cyclothymic affective temperament in women. <i>Journal of Psychosomatic Research</i> , 2021, 145, 110423.	1.2	10
41	Abutting Left Atrial Appendage and Left Superior Pulmonary Vein Predicts Recurrence of Atrial Fibrillation After Point-by-Point Pulmonary Vein Isolation. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 708298.	1.1	10
42	Subclinical leaflet thrombosis is associated with impaired reverse remodelling after transcatheter aortic valve implantation. <i>European Heart Journal Cardiovascular Imaging</i> , 2020, 21, 1144-1151.	0.5	9
43	Image Quality of Prospectively ECG-Triggered Coronary CT Angiography in Heart Transplant Recipients. <i>American Journal of Roentgenology</i> , 2018, 210, 314-319.	1.0	8
44	Assessing genetic and environmental influences on epicardial and abdominal adipose tissue quantities: a classical twin study. <i>International Journal of Obesity</i> , 2018, 42, 163-168.	1.6	8
45	Genetically determined pattern of left ventricular function in normal and hypertensive hearts. <i>Journal of Clinical Hypertension</i> , 2018, 20, 949-958.	1.0	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. <i>International Journal of Cardiology</i> , 2021, 327, 231-235.	0.8	8
47	Association between affective temperaments and severe coronary artery disease. <i>Journal of Affective Disorders</i> , 2021, 295, 914-919.	2.0	7
48	Right Ventricular Adaptation Is Associated with the Glu298Asp Variant of the NOS3 Gene in Elite Athletes. <i>PLoS ONE</i> , 2015, 10, e0141680.	1.1	7
49	The effect of left atrial wall thickness and pulmonary vein sizes on the acute procedural success of atrial fibrillation ablation. <i>International Journal of Cardiovascular Imaging</i> , 2022, , 1.	0.7	7
50	Deep learning-based atherosclerotic coronary plaque segmentation on coronary CT angiography. <i>European Radiology</i> , 2022, 32, 7217-7226.	2.3	7
51	Radiomics. <i>Circulation: Cardiovascular Imaging</i> , 2019, 12, e009990.	1.3	6
52	CAD-RADS may underestimate coronary plaque progression as detected by serial CT angiography. <i>European Heart Journal Cardiovascular Imaging</i> , 2022, 23, 1530-1539.	0.5	6
53	Correlation between Coronary Artery Calcium- and Different Cardiovascular Risk Score-Based Methods for the Estimation of Vascular Age in Caucasian Patients. <i>Journal of Clinical Medicine</i> , 2022, 11, 1111.	1.0	6
54	Quantification of hypo-attenuated leaflet thickening after transcatheter aortic valve implantation: clinical relevance of hypo-attenuated leaflet thickening volume. <i>European Heart Journal Cardiovascular Imaging</i> , 2020, 21, 1395-1404.	0.5	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. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2021, 14, e009777.	2.1	5
56	Are risk factors necessary for pretest probability assessment of coronary artery disease? A patient similarity network analysis of the PROMISE trial. <i>Journal of Cardiovascular Computed Tomography</i> , 2022, 16, 397-403.	0.7	5
57	Aortic root dimensions are predominantly determined by genetic factors: a classical twin study. <i>European Radiology</i> , 2017, 27, 2419-2425.	2.3	4
58	CT Images Are Noninferior to Anatomic Specimens in Teaching Cardiac Anatomy—A Randomized Quantitative Study. <i>Journal of the American College of Radiology</i> , 2017, 14, 409-415.e2.	0.9	4
59	Environmental Factors Slightly Outweigh Genetic Influences in the Development of Pancreatic Lipid Accumulation: A Classical Twin Study. <i>Metabolic Syndrome and Related Disorders</i> , 2020, 18, 413-418.	0.5	4
60	Sex-specific associations between alcohol consumption, cardiac morphology, and function as assessed by magnetic resonance imaging: insights from the UK Biobank Population Study. <i>European Heart Journal Cardiovascular Imaging</i> , 2021, 22, 1009-1016.	0.5	4
61	Cardiovascular risk factors and illicit drug use may have a more profound effect on coronary atherosclerosis progression in people living with HIV. <i>European Radiology</i> , 2021, 31, 2756-2767.	2.3	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. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 841658.	1.1	4
63	Cyclothymic affective temperament is independently associated with left ventricular hypertrophy in chronic hypertensive patients. <i>Journal of Psychosomatic Research</i> , 2022, 160, 110988.	1.2	4
64	Long-term cocaine use is associated with increased coronary plaque burden — a pilot study. <i>American Journal of Drug and Alcohol Abuse</i> , 2020, 46, 805-811.	1.1	3
65	Standardised computed tomographic assessment of left atrial morphology and tissue thickness in humans. <i>IJC Heart and Vasculature</i> , 2021, 32, 100694.	0.6	3
66	Model-based adaptive filter for a dedicated cardiovascular CT scanner: Assessment of image noise, sharpness and quality. <i>European Journal of Radiology</i> , 2021, 145, 110032.	1.2	3
67	Spatial analysis of factors impacting lower limb major amputation rates in Hungary. <i>Vasa - European Journal of Vascular Medicine</i> , 2022, 51, 158-166.	0.6	3
68	Temporal assessment of lesion morphology on radiological images beyond lesion volumes—a proof-of-principle study. <i>European Radiology</i> , 2022, 32, 8748-8760.	2.3	3
69	FT02. Incomplete Circle of Willis Is Associated With a Higher Incidence of Neurologic Events During Carotid Eversion Endarterectomy Without Shunting. <i>Journal of Vascular Surgery</i> , 2016, 63, 14S.	0.6	2
70	Cardiac CT Radiomics. <i>Contemporary Medical Imaging</i> , 2019, , 715-724.	0.3	2
71	Novel structured MRI reporting system in neonatal hypoxic-ischemic encephalopathy — issues of development and first use experiences. <i>Ideggyogyaszati Szemle</i> , 2018, 71, 265-276.	0.4	2
72	Thoracic Aortic Strain is Irrelevant Regarding Endograft Sizing in Most Young Patients. <i>Annals of Vascular Surgery</i> , 2017, 38, 227-232.	0.4	1

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73	6176 Coronary CT radiomics analysis can identify morphologically and metabolically vulnerable plaques. <i>European Heart Journal</i> , 2018, 39, .	1.0	1
74	Left Ventricular Systolic Function Has Strong Independent Genetic Background from Diastolic Function: A Classical Twin Study. <i>Medicina (Lithuania)</i> , 2021, 57, 935.	0.8	1
75	A koronária-CT-angiográfia jelentősége a mindennapi gyakorlatban stabil anginás betegek kéréseiben. <i>Cardiologia Hungarica</i> , 2018, 48, 52-57.	0.0	1
76	AI Can Evaluate Cardiac Ultrasounds. <i>JACC: Cardiovascular Imaging</i> , 2021, , .	2.3	1
77	HIV indirectly accelerates coronary artery disease by promoting the effects of risk factors: longitudinal observational study. <i>Scientific Reports</i> , 2021, 11, 23110.	1.6	1
78	HIV may indirectly accelerate coronary artery disease through enhancing the effects of conventional and non-conventional cardiovascular risk factors. <i>European Heart Journal</i> , 2020, 41, .	1.0	1
79	The Journal of cardiovascular computed tomography: A year in review 2021. <i>Journal of Cardiovascular Computed Tomography</i> , 2022, , .	0.7	1
80	Editorial: Radiomics in Cardiovascular Imaging. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 876713.	1.1	1
81	Low-dose "step-and-shoot" CT in patients with atrial fibrillation: Is simultaneous assessment of the left atrium and coronary arteries feasible?. <i>European Heart Journal</i> , 2013, 34, P5344-P5344.	1.0	0
82	Non-invasive Assessment of Coronary Plaque Morphology. <i>Current Radiology Reports</i> , 2015, 3, 1.	0.4	0
83	Implementation and experiences with a structured reporting software for coronary CT angiography. <i>Journal of Cardiovascular Computed Tomography</i> , 2016, 10, e12-e13.	0.7	0
84	5€...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. <i>Journal of Hypertension</i> , 2018, 36, e34.	0.3	0
86	A koronária-CT-angiográfia értékelése és leletezése. <i>Cardiologia Hungarica</i> , 2017, 47, 2-9.	0.0	0
87	Van-e összefüggés az epikardiális zsírszövet és a koszorúér-betegség kórtörtéte? <i>Cardiologia Hungarica</i> , 2017, 47, 25-29.	0.0	0
88	Effect of genetic and environmental influences on hepatic steatosis: A classical twin study based on computed tomography. <i>Imaging</i> , 2020, 12, 15-20.	0.3	0
89	Cocaine use and HIV-infection modify coronary plaque morphology differently than conventional cardiovascular risk factors. <i>European Heart Journal</i> , 2020, 41, .	1.0	0