

# Marton Kolossvry

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69

papers

808

citations

16

h-index

27

g-index

95

ext. papers

1,246

ext. citations

4.3

avg, IF

4.43

L-index

#	Paper	IF	Citations
69	Radiomics-Based Precision Phenotyping Identifies Unstable Coronary Plaques From Computed Tomography Angiography.. <i>JACC: Cardiovascular Imaging</i> , <b>2022</b> , 15, 859-871	8.4	2
68	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> , <b>2022</b> , 1	2.5	2
67	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> , <b>2022</b> , 9, 708298	5.4	0
66	Heritability of Coronary Artery Disease: Insights From a Classical Twin Study.. <i>Circulation: Cardiovascular Imaging</i> , <b>2022</b> , 15, e013348	3.9	2
65	Radiomics in Cardiac CT. <i>Contemporary Medical Imaging</i> , <b>2022</b> , 305-311	0.1	
64	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> , <b>2022</b> , 9, 841658	5.4	0
63	Deep learning-based atherosclerotic coronary plaque segmentation on coronary CT angiography.. <i>European Radiology</i> , <b>2022</b> , 1	8	1
62	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> , <b>2021</b> , 22, 1009-1016	4.1	0
61	HIV indirectly accelerates coronary artery disease by promoting the effects of risk factors: longitudinal observational study. <i>Scientific Reports</i> , <b>2021</b> , 11, 23110	4.9	1
60	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> , <b>2021</b> ,	3.3	1
59	Model-based adaptive filter for a dedicated cardiovascular CT scanner: Assessment of image noise, sharpness and quality. <i>European Journal of Radiology</i> , <b>2021</b> , 145, 110032	4.7	2
58	Artificial intelligence in cardiovascular CT: Current status and future implications. <i>Journal of Cardiovascular Computed Tomography</i> , <b>2021</b> , 15, 462-469	2.8	2
57	Contribution of Risk Factors to the Development of Coronary Atherosclerosis as Confirmed via Coronary CT Angiography: A Longitudinal Radiomics-based Study. <i>Radiology</i> , <b>2021</b> , 299, 97-106	20.5	7
56	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> , <b>2021</b> , 48, 1399-1413	8.8	11
55	The association between accelerated vascular aging and cyclothymic affective temperament in women. <i>Journal of Psychosomatic Research</i> , <b>2021</b> , 145, 110423	4.1	0
54	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> , <b>2021</b> , 327, 231-235	3.2	2
53	Effect of vessel wall segmentation on volumetric and radiomic parameters of coronary plaques with adverse characteristics. <i>Journal of Cardiovascular Computed Tomography</i> , <b>2021</b> , 15, 137-145	2.8	4

52	Artificial Intelligence in Cardiovascular Imaging for Risk Stratification in Coronary Artery Disease. <i>Radiology: Cardiothoracic Imaging</i> , <b>2021</b> , 3, e200512	8.3	10
51	Standardised computed tomographic assessment of left atrial morphology and tissue thickness in humans. <i>IJC Heart and Vasculature</i> , <b>2021</b> , 32, 100694	2.4	2
50	Orientation of the right superior pulmonary vein affects outcome after pulmonary vein isolation. <i>European Heart Journal Cardiovascular Imaging</i> , <b>2021</b> ,	4.1	3
49	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> , <b>2021</b> , 31, 2756-2767	8	1
48	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> , <b>2021</b> , 14, e009777	6.4	0
47	Association between affective temperaments and severe coronary artery disease. <i>Journal of Affective Disorders</i> , <b>2021</b> , 295, 914-919	6.6	0
46	Calcium scoring: a personalized probability assessment predicts the need for additional or alternative testing to coronary CT angiography. <i>European Radiology</i> , <b>2020</b> , 30, 5499-5506	8	3
45	Artificial intelligence: improving the efficiency of cardiovascular imaging. <i>Expert Review of Medical Devices</i> , <b>2020</b> , 17, 565-577	3.5	8
44	Effect of genetic and environmental influences on hepatic steatosis: A classical twin study based on computed tomography. <i>Imaging</i> , <b>2020</b> , 12, 15-20	0.3	
43	Myocardial Infarction Associates With a Distinct Pericoronary Adipose Tissue Radiomic Phenotype: A Prospective Case-Control Study. <i>JACC: Cardiovascular Imaging</i> , <b>2020</b> , 13, 2371-2383	8.4	32
42	Subclinical leaflet thrombosis is associated with impaired reverse remodelling after transcatheter aortic valve implantation. <i>European Heart Journal Cardiovascular Imaging</i> , <b>2020</b> , 21, 1144-1151	4.1	7
41	Left ventricular and atrial strain imaging with cardiac computed tomography: Validation against echocardiography. <i>Journal of Cardiovascular Computed Tomography</i> , <b>2020</b> , 14, 363-369	2.8	8
40	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> , <b>2020</b> , 21, 1395-1404	4.1	1
39	Environmental Factors Slightly Outweigh Genetic Influences in the Development of Pancreatic Lipid Accumulation: A Classical Twin Study. <i>Metabolic Syndrome and Related Disorders</i> , <b>2020</b> , 18, 413-418 <sup>2.6</sup>	2.6	1
38	Long-term cocaine use is associated with increased coronary plaque burden - a pilot study. <i>American Journal of Drug and Alcohol Abuse</i> , <b>2020</b> , 46, 805-811	3.7	0
37	Increased visceral arterial tortuosity in Marfan syndrome. <i>Orphanet Journal of Rare Diseases</i> , <b>2020</b> , 15, 91	4.2	7
36	Cardiac CT Radiomics. <i>Contemporary Medical Imaging</i> , <b>2019</b> , 715-724	0.1	1
35	Advanced atherosclerosis imaging by CT: Radiomics, machine learning and deep learning. <i>Journal of Cardiovascular Computed Tomography</i> , <b>2019</b> , 13, 274-280	2.8	47

34	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> , <b>2019</b> , 20, 1250-1258	4.1	57
33	Comprehensive coronary plaque assessment in patients with obstructive sleep apnea. <i>Journal of Sleep Research</i> , <b>2019</b> , 28, e12828	5.8	13
32	Multidetector CT angiography of the Circle of Willis: association of its variants with carotid artery disease and brain ischemia. <i>European Radiology</i> , <b>2019</b> , 29, 46-56	8	10
31	Radiomics versus Visual and Histogram-based Assessment to Identify Atheromatous Lesions at Coronary CT Angiography: An ex Vivo Study. <i>Radiology</i> , <b>2019</b> , 293, 89-96	20.5	40
30	Neurodevelopmental effect of intracranial hemorrhage observed in hypoxic ischemic brain injury in hypothermia-treated asphyxiated neonates - an MRI study. <i>BMC Pediatrics</i> , <b>2019</b> , 19, 430	2.6	6
29	Association between Cyclothymic Affective Temperament and Age of Onset of Hypertension. <i>International Journal of Hypertension</i> , <b>2019</b> , 2019, 9248247	2.4	6
28	Effect of image reconstruction algorithms on volumetric and radiomic parameters of coronary plaques. <i>Journal of Cardiovascular Computed Tomography</i> , <b>2019</b> , 13, 325-330	2.8	20
27	Quantitative CT assessment identifies more heart transplanted patients with progressive coronary wall thickening than standard clinical read. <i>Journal of Cardiovascular Computed Tomography</i> , <b>2019</b> , 13, 128-133	2.8	6
26	Cardiac Computed Tomography Radiomics: A Comprehensive Review on Radiomic Techniques. <i>Journal of Thoracic Imaging</i> , <b>2018</b> , 33, 26-34	5.6	91
25	Image Quality of Prospectively ECG-Triggered Coronary CT Angiography in Heart Transplant Recipients. <i>American Journal of Roentgenology</i> , <b>2018</b> , 210, 314-319	5.4	7
24	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> , <b>2018</b> , 121, 9-13	3	29
23	Assessing genetic and environmental influences on epicardial and abdominal adipose tissue quantities: a classical twin study. <i>International Journal of Obesity</i> , <b>2018</b> , 42, 163-168	5.5	7
22	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> , <b>2018</b> , 68, 1764-1771	3.5	21
21	Novel structured MRI reporting system in neonatal hypoxic-ischemic encephalopathy - issues of development and first use experiences. <i>Ideggyogyaszati Szemle</i> , <b>2018</b> , 71, 265-276	0.4	2
20	EVALUATION OF THE ASSOCIATION BETWEEN THE AGE AT ONSET OF HYPERTENSION AND DIFFERENT AFFECTIVE TEMPERAMENTS. <i>Journal of Hypertension</i> , <b>2018</b> , 36, e34	1.9	
19	Prognostic value of early, conventional proton magnetic resonance spectroscopy in cooled asphyxiated infants. <i>BMC Pediatrics</i> , <b>2018</b> , 18, 302	2.6	12
18	Genetically determined pattern of left ventricular function in normal and hypertensive hearts. <i>Journal of Clinical Hypertension</i> , <b>2018</b> , 20, 949-958	2.3	5
17	Iterative model reconstruction reduces calcified plaque volume in coronary CT angiography. <i>European Journal of Radiology</i> , <b>2017</b> , 87, 83-89	4.7	16

16	Aortic root dimensions are predominantly determined by genetic factors: a classical twin study. <i>European Radiology</i> , <b>2017</b> , 27, 2419-2425	8	2
15	CT Images Are Noninferior to Anatomic Specimens in Teaching Cardiac Anatomy-A Randomized Quantitative Study. <i>Journal of the American College of Radiology</i> , <b>2017</b> , 14, 409-415.e2	3.5	2
14	Plaque imaging with CT-a comprehensive review on coronary CT angiography based risk assessment. <i>Cardiovascular Diagnosis and Therapy</i> , <b>2017</b> , 7, 489-506	2.6	51
13	Structured reporting platform improves CAD-RADS assessment. <i>Journal of Cardiovascular Computed Tomography</i> , <b>2017</b> , 11, 449-454	2.8	10
12	Inverse association between hyperthymic affective temperament and coronary atherosclerosis: A coronary computed tomography angiography study. <i>Journal of Psychosomatic Research</i> , <b>2017</b> , 103, 108-112	4.1	8
11	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> , <b>2017</b> , 27, 4538-4543 <sup>8</sup>	8	17
10	Thoracic Aortic Strain is Irrelevant Regarding Endograft Sizing in Most Young Patients. <i>Annals of Vascular Surgery</i> , <b>2017</b> , 38, 227-232	1.7	0
9	Radiomic Features Are Superior to Conventional Quantitative Computed Tomographic Metrics to Identify Coronary Plaques With Napkin-Ring Sign. <i>Circulation: Cardiovascular Imaging</i> , <b>2017</b> , 10,	3.9	102
8	The effect of iterative model reconstruction on coronary artery calcium quantification. <i>International Journal of Cardiovascular Imaging</i> , <b>2016</b> , 32, 153-60	2.5	32
7	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> , <b>2016</b> , 63, 14S	3.5	2
6	Comparison of Quantity of Coronary Atherosclerotic Plaques Detected by Computed Tomography Versus Angiography. <i>American Journal of Cardiology</i> , <b>2016</b> , 117, 1863-7	3	16
5	Rationale, Design, and Methodological Aspects of the BUDAPEST-GLOBAL Study (Burden of Atherosclerotic Plaques Study in Twins-Genetic Loci and the Burden of Atherosclerotic Lesions). <i>Clinical Cardiology</i> , <b>2015</b> , 38, 699-707	3.3	16
4	Non-invasive Assessment of Coronary Plaque Morphology. <i>Current Radiology Reports</i> , <b>2015</b> , 3, 1	0.5	
3	Serum lipids and cardiac function correlate with nitrotyrosine and MMP activity in coronary artery disease patients. <i>European Journal of Clinical Investigation</i> , <b>2015</b> , 45, 692-701	4.6	21
2	Right Ventricular Adaptation Is Associated with the Glu298Asp Variant of the NOS3 Gene in Elite Athletes. <i>PLoS ONE</i> , <b>2015</b> , 10, e0141680	3.7	5
1	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> , <b>2013</b> , 34, P5344-P5344	9.5	