

# Attila Kovács, Fase, Fesc

## List of Publications by Year in descending order

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Version: 2024-02-01

107  
papers

2,689  
citations

218592

26  
h-index

223716

46  
g-index

122  
all docs

122  
docs citations

122  
times ranked

4334  
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel insights into the athlete's heart: is myocardial work the new champion of systolic function?. European Heart Journal Cardiovascular Imaging, 2022, 23, 188-197.	0.5	19
2	Blood-filled cyst of the tricuspid valve: Multiple cardiac disorders, one surgical case. Journal of Cardiac Surgery, 2022, 37, 245-248.	0.3	0
3	Is cardiac involvement prevalent in highly trained athletes after SARS-CoV-2 infection? A cardiac magnetic resonance study using sex-matched and age-matched controls. British Journal of Sports Medicine, 2022, 56, 553-560.	3.1	21
4	Biventricular mechanical pattern of the athlete's heart: comprehensive characterization using three-dimensional echocardiography. European Journal of Preventive Cardiology, 2022, 29, 1594-1604.	0.8	20
5	Prognostic Value of Right Ventricular Strains Using Novel Three-Dimensional Analytical Software in Patients With Cardiac Disease. Frontiers in Cardiovascular Medicine, 2022, 9, 837584.	1.1	14
6	The Prognostic Value of Anemia in Patients with Preserved, Mildly Reduced and Recovered Ejection Fraction. Diagnostics, 2022, 12, 517.	1.3	7
7	Subclinical cardiac dysfunction in pediatric kidney transplant recipients identified by speckle-tracking echocardiography. Pediatric Nephrology, 2022, , 1.	0.9	7
8	TRAF2, an Innate Immune Sensor, Reciprocally Regulates Mitophagy and Inflammation to Maintain Cardiac Myocyte Homeostasis. JACC Basic To Translational Science, 2022, 7, 223-243.	1.9	11
9	Association between Preoperative Retrograde Hepatic Vein Flow and Acute Kidney Injury after Cardiac Surgery. Diagnostics, 2022, 12, 699.	1.3	4
10	Contraction patterns of the systemic right ventricle: a three-dimensional echocardiography study. European Heart Journal Cardiovascular Imaging, 2022, 23, 1654-1662.	0.5	9
11	Impact of Right Ventricular Trabeculation on Right Ventricular Function in Patients With Left Ventricular Non-compaction Phenotype. Frontiers in Cardiovascular Medicine, 2022, 9, 843952.	1.1	4
12	Assessment of Right Ventricular Mechanics by 3D Transesophageal Echocardiography in the Early Phase of Acute Respiratory Distress Syndrome. Frontiers in Cardiovascular Medicine, 2022, 9, 861464.	1.1	1
13	Competing Approaches to Defining Right Ventricular Motion Directions in Three Dimensions: A Pressing Need for Standardization?. Journal of the American Society of Echocardiography, 2021, 34, 203-205.	1.2	0
14	Regional shape, global function and mechanics in right ventricular volume and pressure overload conditions: a three-dimensional echocardiography study. International Journal of Cardiovascular Imaging, 2021, 37, 1289-1299.	0.7	19
15	Jobbszámvetés a szívtranszplantációval kapcsolatban : Egy ritka etiológiai tényező. Cardiologia Hungarica, 2021, 51, 69-72.	0.0	0
16	Radiomics in cardiovascular imaging: principles and clinical implications. , 2021, , 281-310.		0
17	Sex-Specific Patterns of Mortality Predictors Among Patients Undergoing Cardiac Resynchronization Therapy: A Machine Learning Approach. Frontiers in Cardiovascular Medicine, 2021, 8, 611055.	1.1	11
18	Partitioning the Right Ventricle Into 15 Segments and Decomposing Its Motion Using 3D Echocardiography-Based Models: The Updated ReVISION Method. Frontiers in Cardiovascular Medicine, 2021, 8, 622118.	1.1	26

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19	Inhibition of NOX1 Mitigates Blood Pressure Increases in Elastin Insufficiency. <i>Function</i> , 2021, 2, zqab015.	1.1	10
20	Myocardial work index: a marker of left ventricular contractility in pressure- or volume overload-induced heart failure. <i>ESC Heart Failure</i> , 2021, 8, 2220-2231.	1.4	21
21	Significance of extended sports cardiology screening of elite handball referees. <i>PLoS ONE</i> , 2021, 16, e0249923.	1.1	2
22	Behçet's disease: successful aortic root reconstruction in severely dilated aortoventricular junction after aortic valve replacement with novel surgical method – case report. <i>Journal of Cardiothoracic Surgery</i> , 2021, 16, 85.	0.4	2
23	Anteroposterior Contraction of the Systemic Right Ventricle. <i>JACC: Case Reports</i> , 2021, 3, 728-730.	0.3	2
24	Long-term survival following upgrade compared with <i>de novo</i> cardiac resynchronization therapy implantation: a single-centre, high-volume experience. <i>Europace</i> , 2021, 23, 1310-1318.	0.7	10
25	Genetic and environmental factors on heart rate, mean arterial pressure and carotid intima-media thickness: A longitudinal twin study. <i>Cardiology Journal</i> , 2021, 28, 431-438.	0.5	3
26	Geometrical remodeling of the mitral and tricuspid annuli in response to exercise training: a 3-D echocardiographic study in elite athletes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 320, H1774-H1785.	1.5	5
27	Myocardial Lipin 1 knockout in mice approximates cardiac effects of human LPIN1 mutations. <i>JCI Insight</i> , 2021, 6, .	2.3	12
28	Added predictive value of right ventricular ejection fraction compared with conventional echocardiographic measurements in patients who underwent diverse cardiovascular procedures. <i>Imaging</i> , 2021, 13, 130-137.	0.3	4
29	Global and regional right ventricular mechanics in repaired tetralogy of Fallot with chronic severe pulmonary regurgitation: a three-dimensional echocardiography study. <i>Cardiovascular Ultrasound</i> , 2021, 19, 28.	0.5	9
30	Contraction Patterns of the Right Ventricle Associated with Different Degrees of Left Ventricular Systolic Dysfunction. <i>Circulation: Cardiovascular Imaging</i> , 2021, 14, e012774.	1.3	26
31	The Impact of COVID-19 on the Preparation for the Tokyo Olympics: A Comprehensive Performance Assessment of Top Swimmers. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 9770.	1.2	25
32	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
33	Resident cardiac macrophages mediate adaptive myocardial remodeling. <i>Immunity</i> , 2021, 54, 2072-2088.e7.	6.6	76
34	Left Ventricular Pressure-Strain-Volume Loops for the Noninvasive Assessment of Volume Overload-Induced Myocardial Dysfunction. <i>JACC: Cardiovascular Imaging</i> , 2021, 14, 1868-1871.	2.3	2
35	Frequent Constriction-Like Echocardiographic Findings in Elite Athletes Following Mild COVID-19: A Propensity Score-Matched Analysis. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 760651.	1.1	8
36	Abstract 10970: Added Predictive Value of Right Ventricular Ejection Fraction Compared with Conventional Echocardiographic Measurements in Patients Who Underwent Diverse Cardiovascular Procedures. <i>Circulation</i> , 2021, 144, .	1.6	0

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37	Abstract 11363: Pericardial Constriction-Like Echocardiographic Findings in Elite Athletes Following Mild Covid-19 Infection: A Propensity Score-Matched Analysis. <i>Circulation</i> , 2021, 144, .	1.6	0
38	3D Echocardiography: Toward a Better Understanding of Cardiac Anatomy and Function. <i>Journal of Visualized Experiments</i> , 2021, , .	0.2	1
39	Relationship between Cardiac Remodeling and Exercise Capacity in Elite Athletes: Incremental Value of Left Atrial Morphology and Function Assessed by Three-Dimensional Echocardiography. <i>Journal of the American Society of Echocardiography</i> , 2020, 33, 101-109.e1.	1.2	17
40	The impact of sex, age and training on biventricular cardiac adaptation in healthy adult and adolescent athletes: Cardiac magnetic resonance imaging study. <i>European Journal of Preventive Cardiology</i> , 2020, 27, 540-549.	0.8	23
41	Giant unruptured sinus of Valsalva aneurysm successfully managed with valve-sparing procedure – a case report. <i>Journal of Cardiothoracic Surgery</i> , 2020, 15, 6.	0.4	13
42	Machine learning-based mortality prediction of patients undergoing cardiac resynchronization therapy: the SEMMELWEIS-CRT score. <i>European Heart Journal</i> , 2020, 41, 1747-1756.	1.0	82
43	COMPETITIVE SPORTS AFTER ABORTED SUDDEN CARDIAC DEATH DUE TO CORONARY ARTERY ANOMALY. <i>Journal of the American College of Cardiology</i> , 2020, 75, 3067.	1.2	0
44	Longitudinal Strain Reflects Ventriculoarterial Coupling Rather Than Mere Contractility in Rat Models of Hemodynamic Overload – Induced Heart Failure. <i>Journal of the American Society of Echocardiography</i> , 2020, 33, 1264-1275.e4.	1.2	21
45	Lateral left ventricular lead position is superior to posterior position in long-term outcome of patients who underwent cardiac resynchronization therapy. <i>ESC Heart Failure</i> , 2020, 7, 3374-3382.	1.4	14
46	Nutritional modulation of heart failure in mitochondrial pyruvate carrier – deficient mice. <i>Nature Metabolism</i> , 2020, 2, 1232-1247.	5.1	74
47	Ischemia reperfusion injury provokes adverse left ventricular remodeling in dysferlin-deficient hearts through a pathway that involves TIRAP dependent signaling. <i>Scientific Reports</i> , 2020, 10, 14129.	1.6	5
48	The Mechanism of High-Output Cardiac Hypertrophy Arising From Potassium Channel Gain-of-Function in Cantu Syndrome. <i>Function</i> , 2020, 1, zqaa004.	1.1	18
49	Importance of Nonlongitudinal Motion Components in Right Ventricular Function: Three-Dimensional Echocardiographic Study in Healthy Volunteers. <i>Journal of the American Society of Echocardiography</i> , 2020, 33, 995-1005.e1.	1.2	45
50	Right ventricular mechanical pattern in patients undergoing mitral valve surgery: a predictor of postoperative dysfunction?. <i>ESC Heart Failure</i> , 2020, 7, 1246-1256.	1.4	24
51	Global Longitudinal Strain in Moderate Aortic Stenosis. <i>Circulation: Cardiovascular Imaging</i> , 2020, 13, e010711.	1.3	3
52	Glibenclamide reverses cardiovascular abnormalities of Cantu syndrome driven by KATP channel overactivity. <i>Journal of Clinical Investigation</i> , 2020, 130, 1116-1121.	3.9	40
53	A transthoracalis és transoesophagealis echokardiográfiai vizsgálati indikációi, protokollja, valamint a betegek és az ellátás szisztematikus delme – a COVID-19-pandémia rákuszálva. <i>Cardiologia Hungarica</i> , 2020, 50, 88-92.	0	0
54	Morphological and Functional Assessment of the Right Ventricle Using 3D Echocardiography. <i>Journal of Visualized Experiments</i> , 2020, , .	0.2	2

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55	Evaluation of Left Ventricular Structure and Function using 3D Echocardiography. <i>Journal of Visualized Experiments</i> , 2020, , .	0.2	1
56	Acute thrombosis of the ascending aorta causing right ventricular failure: first manifestation of antiphospholipid syndrome. <i>European Journal of Cardio-thoracic Surgery</i> , 2019, 55, 371-373.	0.6	3
57	FP804SUBCLINICAL CARDIOVASCULAR DAMAGE IN PEDIATRIC KIDNEY TRANSPLANT RECIPIENTS: CARDIAC STRAIN MEASUREMENTS BY TWO DIMENSIONAL SPECKLE TRACKING ECHOCARDIOGRAPHY. <i>Nephrology Dialysis Transplantation</i> , 2019, 34, .	0.4	0
58	ABCC9-related Intellectual disability Myopathy Syndrome is a KATP channelopathy with loss-of-function mutations in ABCC9. <i>Nature Communications</i> , 2019, 10, 4457.	5.8	31
59	A maternal high-fat, high-sucrose diet induces transgenerational cardiac mitochondrial dysfunction independently of maternal mitochondrial inheritance. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 316, H1202-H1210.	1.5	39
60	Right ventricular mechanical pattern in health and disease: beyond longitudinal shortening. <i>Heart Failure Reviews</i> , 2019, 24, 511-520.	1.7	91
61	Tissue Resident CCR2 <sup>hi</sup> and CCR2 <sup>+</sup> Cardiac Macrophages Differentially Orchestrate Monocyte Recruitment and Fate Specification Following Myocardial Injury. <i>Circulation Research</i> , 2019, 124, 263-278.	2.0	424
62	Characterization of the dynamic changes in left ventricular morphology and function induced by exercise training and detraining. <i>International Journal of Cardiology</i> , 2019, 277, 178-185.	0.8	23
63	Regularization-Free Strain Mapping in Three Dimensions, With Application to Cardiac Ultrasound. <i>Journal of Biomechanical Engineering</i> , 2019, 141, .	0.6	17
64	TFEB activation in macrophages attenuates postmyocardial infarction ventricular dysfunction independently of ATG5-mediated autophagy. <i>JCI Insight</i> , 2019, 4, .	2.3	39
65	A jobb kamrai kontrakci3s mint4zat v4;ltoz4;sa 4;lsportol4;kban: h4;romdimenzi4;s echokardiogr4;fi4;s vizsg4;lat. <i>Cardiologia Hungarica</i> , 2019, 49, 17-23.	0.0	0
66	Dominance of free wall radial motion in global right ventricular function of heart transplant recipients. <i>Clinical Transplantation</i> , 2018, 32, e13192.	0.8	25
67	Sinus of Valsalva aneurysm protruding intramurally into right ventricle: does size really matter?. <i>European Heart Journal Cardiovascular Imaging</i> , 2018, 19, 234-234.	0.5	1
68	Load-Dependent Changes in Left Ventricular Structure and Function in a Pathophysiologically Relevant Murine Model of Reversible Heart Failure. <i>Circulation: Heart Failure</i> , 2018, 11, e004351.	1.6	37
69	Metabolic and Cardiac Adaptation to Chronic Pharmacologic Blockade of Facilitative Glucose Transport in Murine Dilated Cardiomyopathy and Myocardial Ischemia. <i>Scientific Reports</i> , 2018, 8, 6475.	1.6	8
70	De novo implantation vs. upgrade cardiac resynchronization therapy: a systematic review and meta-analysis. <i>Heart Failure Reviews</i> , 2018, 23, 15-26.	1.7	32
71	Exercise-induced shift in right ventricular contraction pattern: novel marker of athlete4;TM's heart?. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018, 315, H1640-H1648.	1.5	23
72	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

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73	G-protein receptor kinases 2, 5 and 6 redundantly modulate Smoothed-GATA transcriptional crosstalk in fetal mouse hearts. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 121, 60-68.	0.9	7
74	Minoxidil improves vascular compliance, restores cerebral blood flow, and alters extracellular matrix gene expression in a model of chronic vascular stiffness. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018, 315, H18-H32.	1.5	44
75	The Female Athlete's Heart: Comparison of Cardiac Changes Induced by Different Types of Exercise Training Using 3D Echocardiography. <i>BioMed Research International</i> , 2018, 2018, 1-7.	0.9	10
76	Comparison of speckle-tracking echocardiography with invasive hemodynamics for the detection of characteristic cardiac dysfunction in type-1 and type-2 diabetic rat models. <i>Cardiovascular Diabetology</i> , 2018, 17, 13.	2.7	35
77	Response to Ivey-Miranda and Farrero-Torres - does there dominance of free wall radial motion in global right ventricular function in heart transplant recipients or in all heart surgery patients? <i>Clinical Transplantation</i> , 2018, 32, e13286.	0.8	3
78	Modulation of subsets of cardiac B lymphocytes improves cardiac function after acute injury. <i>JCI Insight</i> , 2018, 3, .	2.3	63
79	Cardiovascular consequences of KATP overactivity in Cantu syndrome. <i>JCI Insight</i> , 2018, 3, .	2.3	44
80	Rationale and design of the BUDAPEST-CRT Upgrade Study: a prospective, randomized, multicentre clinical trial. <i>Europace</i> , 2017, 19, euw193.	0.7	17
81	Aortic root dimensions are predominantly determined by genetic factors: a classical twin study. <i>European Radiology</i> , 2017, 27, 2419-2425.	2.3	4
82	Heritability of the femoral intima media thickness. <i>European Journal of Internal Medicine</i> , 2017, 41, 44-48.	1.0	2
83	Gestational Stage and IFN- $\beta$ Signaling Regulate ZIKV Infection In Utero. <i>Cell Host and Microbe</i> , 2017, 22, 366-376.e3.	5.1	137
84	Quantification of the relative contribution of the different right ventricular wall motion components to right ventricular ejection fraction: the ReVISION method. <i>Cardiovascular Ultrasound</i> , 2017, 15, 8.	0.5	49
85	Impact of CT-apelin and NT-proBNP on identifying non-responders to cardiac resynchronization therapy. <i>Biomarkers</i> , 2017, 22, 279-286.	0.9	5
86	Evaluation of Left Ventricular Myocardial Mechanics in Heart Transplant Recipients Using Three-Dimensional Speckle Tracking Echocardiography. <i>Journal of Heart and Lung Transplantation</i> , 2016, 35, S209.	0.3	0
87	Cardiac Myocyte-specific Knock-out of Calcium-independent Phospholipase A2 $\beta$ (iPLA2 $\beta$ ) Decreases Oxidized Fatty Acids during Ischemia/Reperfusion and Reduces Infarct Size. <i>Journal of Biological Chemistry</i> , 2016, 291, 19687-19700.	1.6	31
88	Hypertrophic Cardiomyopathy in a Monozygotic Twin Pair. <i>Circulation: Cardiovascular Imaging</i> , 2016, 9, .	1.3	6
89	Pulmonary Valve Replacement With Small Intestine Submucosa-Extracellular Matrix in a Porcine Model. <i>World Journal for Pediatric &amp; Congenital Heart Surgery</i> , 2016, 7, 475-483.	0.3	13
90	Defining the optimal systolic phase targets using absolute delay time for reconstructions in dual-source coronary CT angiography. <i>International Journal of Cardiovascular Imaging</i> , 2016, 32, 91-100.	0.7	8

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91	Functional significance of the discordance between transcriptional profile and left ventricular structure/function during reverse remodeling. <i>JCI Insight</i> , 2016, 1, e86038.	2.3	33
92	Rationale, Design, and Methodological Aspects of the <sc>BUDAPEST</sc> GLOBAL</sc> Study (Burden of Tj ETQq0 0 0 rgBT /Overlock Clinical Cardiology, 2015, 38, 699-707.	0.7	18
93	Three-dimensional dynamic morphology of the mitral valve in different forms of mitral valve prolapse – potential implications for annuloplasty ring selection. <i>Cardiovascular Ultrasound</i> , 2015, 14, 32.	0.5	17
94	PP.04.17. <i>Journal of Hypertension</i> , 2015, 33, e166.	0.3	0
95	Role of Right Ventricular Global Longitudinal Strain in Predicting Early and Long-Term Mortality in Cardiac Resynchronization Therapy Patients. <i>PLoS ONE</i> , 2015, 10, e0143907.	1.1	26
96	Vascular Smooth Muscle LRP6 Limits Arteriosclerotic Calcification in Diabetic LDLR <sup>Δ</sup> Mice by Restraining Noncanonical Wnt Signals. <i>Circulation Research</i> , 2015, 117, 142-156.	2.0	76
97	PP.18.25. <i>Journal of Hypertension</i> , 2015, 33, e297.	0.3	0
98	Strain and strain rate by speckle-tracking echocardiography correlate with pressure-volume loop-derived contractility indices in a rat model of athlete's heart. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 308, H743-H748.	1.5	65
99	Repetitive stimulation of autophagy-lysosome machinery by intermittent fasting preconditions the myocardium to ischemia-reperfusion injury. <i>Autophagy</i> , 2015, 11, 1537-1560.	4.3	158
100	Comparison of left ventricular mechanics in runners versus bodybuilders using speckle tracking echocardiography. <i>Cardiovascular Ultrasound</i> , 2015, 13, 7.	0.5	27
101	Case Report of Multiple Valve Disease Found in Triplets. <i>Twin Research and Human Genetics</i> , 2014, 17, 383-389.	0.3	1
102	Impact of hemodialysis, left ventricular mass and FGF-23 on myocardial mechanics in end-stage renal disease: a three-dimensional speckle tracking study. <i>International Journal of Cardiovascular Imaging</i> , 2014, 30, 1331-1337.	0.7	19
103	Right atrial size and function assessed with three-dimensional and speckle-tracking echocardiography in 200 healthy volunteers. <i>European Heart Journal Cardiovascular Imaging</i> , 2013, 14, 1106-1114.	0.5	132
104	Relationship between serum fibroblast growth factor 23 levels and left ventricular mass measured by three-dimensional echocardiography in patients with end-stage renal disease. <i>European Heart Journal</i> , 2013, 34, P4222-P4222.	1.0	0
105	Fibroblast Growth Factor Receptor 1 Signaling in Adult Cardiomyocytes Increases Contractility and Results in a Hypertrophic Cardiomyopathy. <i>PLoS ONE</i> , 2013, 8, e82979.	1.1	36
106	Ultrasonic tissue characterization of the mouse myocardium: Successful in vivo cyclic variation measurements. <i>Journal of the American Society of Echocardiography</i> , 2004, 17, 883-892.	1.2	17
107	Comprehensive Echocardiographic Assessment of the Right Ventricular Performance: beyond TAPSE and Fractional Area Change. <i>Russian Journal of Cardiology</i> , 0, 25, 4067.	0.4	3