David Montaigne

List of Publications by Year in descending order

106 papers	4,406 citations	147801 31 h-index	114465 63 g-index
107 all docs	107 docs citations	107 times ranked	8870 citing authors

#	Article	IF	Citations
1	Patent Foramen Ovale Closure or Anticoagulation vs. Antiplatelets after Stroke. New England Journal of Medicine, 2017, 377, 1011-1021.	27.0	864
2	PPAR control of metabolism and cardiovascular functions. Nature Reviews Cardiology, 2021, 18, 809-823.	13.7	299
3	Daytime variation of perioperative myocardial injury in cardiac surgery and its prevention by Rev-Erbî± antagonism: a single-centre propensity-matched cohort study and a randomised study. Lancet, The, 2018, 391, 59-69.	13.7	244
4	Myocardial Contractile Dysfunction Is Associated With Impaired Mitochondrial Function and Dynamics in Type 2 Diabetic but Not in Obese Patients. Circulation, 2014, 130, 554-564.	1.6	237
5	ENDOTHELIAL GLYCOCALYX DAMAGE DURING ENDOTOXEMIA COINCIDES WITH MICROCIRCULATORY DYSFUNCTION AND VASCULAR OXIDATIVE STRESS. Shock, 2008, 29, 572-576.	2.1	179
6	Outcomes of Patients With Asymptomatic Aortic Stenosis Followed Up in Heart Valve Clinics. JAMA Cardiology, 2018, 3, 1060.	6.1	177
7	Multi-modality imaging assessment of native valvular regurgitation: an EACVI and ESC council of valvular heart disease position paper. European Heart Journal Cardiovascular Imaging, 2022, 23, e171-e232.	1.2	121
8	The Sodiumâ€“Glucose Cotransporter 2 Inhibitor Dapagliflozin Prevents Cardiomyopathy in a Diabetic Lipodystrophic Mouse Model. Diabetes, 2017, 66, 1030-1040.	0.6	119
9	Mitochondrial Dysfunction as an Arrhythmogenic Substrate. Journal of the American College of Cardiology, 2013, 62, 1466-1473.	2.8	112
10	Closure, Anticoagulation, or Antiplatelet Therapy for Cryptogenic Stroke With Patent Foramen Ovale: Systematic Review of Randomized Trials, Sequential Metaâ€Analysis, and New Insights From the CLOSE Study. Journal of the American Heart Association, 2018, 7, .	3.7	112
11	NADPH oxidases participate to doxorubicin-induced cardiac myocyte apoptosis. Biochemical and Biophysical Research Communications, 2009, 388, 727-731.	2.1	111
12	Prevention of endotoxin-induced sarcoplasmic reticulum calcium leak improves mitochondrial and myocardial dysfunction*. Critical Care Medicine, 2008, 36, 2590-2596.	0.9	90
13	Left Ventricular Abnormal Response During Dynamic Exercise in Patients With Heart Failure and Preserved Left Ventricular Ejection Fraction at Rest. Journal of Cardiac Failure, 2008, 14, 475-480.	1.7	82
14	Dietary CMLâ€enriched protein induces functional arterial aging in a RAGEâ€dependent manner in mice. Molecular Nutrition and Food Research, 2015, 59, 927-938.	3.3	81
15	Renal resistance index and its prognostic significance in patients with heart failure with preserved ejection fraction. Nephrology Dialysis Transplantation, 2011, 26, 3908-3913.	0.7	65
16	Association of Serum Concentration of TNFR1 With All-Cause Mortality in Patients With Type 2 Diabetes and Chronic Kidney Disease: Follow-up of the SURDIAGENE Cohort. Diabetes Care, 2014, 37, 1425-1431.	8.6	65
17	Doxorubicin induces mitochondrial permeability transition and contractile dysfunction in the human myocardium. Mitochondrion, 2011, 11, 22-26.	3.4	58
18	Mitochondria Death/Survival Signaling Pathways in Cardiotoxicity Induced by Anthracyclines and Anticancer-Targeted Therapies. Biochemistry Research International, 2012, 2012, 1-12.	3.3	57

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19	Doxorubicin-induced cardiac dysfunction is attenuated by ciclosporin treatment in mice through improvements in mitochondrial bioenergetics. Clinical Science, 2011, 121, 405-413.	4.3	55
20	Carbon Monoxide Improves Cardiac Function and Mitochondrial Population Quality in a Mouse Model of Metabolic Syndrome. PLoS ONE, 2012, 7, e41836.	2.5	53
21	Effects of the PPAR-Î± Agonist Fenofibrate on Acute and Short-Term Consequences of Brain Ischemia. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 542-551.	4.3	51
22	Compressed sensing real-time cine imaging for assessment of ventricular function, volumes and mass in clinical practice. European Radiology, 2020, 30, 609-619.	4.5	51
23	Cardiac force-frequency relationship and frequency-dependent acceleration of relaxation are impaired in LPS-treated rats. Critical Care, 2009, 13, R14.	5.8	43
24	Stabilization of mitochondrial membrane potential prevents doxorubicin-induced cardiotoxicity in isolated rat heart. Toxicology and Applied Pharmacology, 2010, 244, 300-307.	2.8	42
25	Prognostic importance of comorbidities in heart failure with preserved left ventricular ejection fraction. Heart and Vessels, 2011, 26, 313-320.	1.2	38
26	Cardiopulmonary response following surgical repair of pectus excavatum in adult patients. European Journal of Cardio-thoracic Surgery, 2011, 40, e77-82.	1.4	38
27	Cardiac contractile function and mitochondrial respiration in diabetes-related mouse models. Cardiovascular Diabetology, 2014, 13, 118.	6.8	35
28	Plasma Trimethylamine N-Oxide and Risk of Cardiovascular Events in Patients With Type 2 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2020, 105, 2371-2380.	3.6	35
29	Caspase-dependent protein phosphatase 2A activation contributes to endotoxin-induced cardiomyocyte contractile dysfunction*. Critical Care Medicine, 2010, 38, 2031-2036.	0.9	33
30	Prognostic Implications of Preoperative Aerobic Capacity and Exercise Oscillatory Ventilation After Liver Transplantation. American Journal of Transplantation, 2014, 14, 88-95.	4.7	33
31	Gene Deletion of Protein Tyrosine Phosphatase 1B Protects Against Sepsis-Induced Cardiovascular Dysfunction and Mortality. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 1032-1044.	2.4	33
32	Percutaneous left atrial appendage closure improves left atrial mechanical function through Frankâ€“Starling mechanism. Heart Rhythm, 2017, 14, 710-716.	0.7	33
33	Severe SARSâ€CoVâ€2 patients develop a higher specific Tâ€cell response. Clinical and Translational Immunology, 2020, 9, e1217.	3.8	31
34	ANGPTL2 is associated with an increased risk of cardiovascular events and death in diabetic patients. Diabetologia, 2016, 59, 2321-2330.	6.3	30
35	Transcatheter mitral valve replacement: factors associated with screening success and failure. EuroIntervention, 2019, 15, e983-e989.	3.2	28
36	First-in-Human Implant of the Cephea Transseptal Mitral Valve Replacement System. Circulation: Cardiovascular Interventions, 2019, 12, e008003.	3.9	27

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37	Absence of the Regulator of G-protein Signaling, RGS4, Predisposes to Atrial Fibrillation and Is Associated with Abnormal Calcium Handling. Journal of Biological Chemistry, 2015, 290, 19233-19244.	3.4	26
38	Transcatheter aortic valve implantation for paradoxical lowâ€flow lowâ€gradient aortic stenosis patients. Catheterization and Cardiovascular Interventions, 2016, 87, 797-804.	1.7	25
39	Post aortic dissection: Gap between activity recommendation and real life patients aerobic capacities. International Journal of Cardiology, 2016, 219, 271-276.	1.7	24
40	Highly performing graphene-based field effect transistor for the differentiation between mild-moderate-severe myocardial injury. Nano Today, 2022, 43, 101391.	11.9	24
41	ATP-sensitive potassium channels in the sinoatrial node contribute to heart rate control and adaptation to hypoxia. Journal of Biological Chemistry, 2018, 293, 8912-8921.	3.4	23
42	Clinical Characteristics and Outcome of Patients with Infective Endocarditis Diagnosed in a Department of Internal Medicine. Journal of Clinical Medicine, 2020, 9, 864.	2.4	23
43	Left atrial epicardial adipose tissue radiodensity is associated with electrophysiological properties of atrial myocardium in patients with atrial fibrillation. European Radiology, 2019, 29, 3027-3035.	4.5	22
44	Association of Mortality With Aortic Stenosis Severity in Outpatients. JAMA Cardiology, 2021, 6, 1424.	6.1	20
45	Functional decline in elderly patients presenting with acute coronary syndromes: Impact on midterm outcome. Archives of Cardiovascular Diseases, 2010, 103, 19-25.	1.6	18
46	Mitochondrial Cardiomyopathy and Related Arrhythmias. Cardiac Electrophysiology Clinics, 2015, 7, 293-301.	1.7	18
47	Serum tenascin-C is independently associated with increased major adverse cardiovascular events and death in individuals with type 2 diabetes: a French prospective cohort. Diabetologia, 2020, 63, 915-923.	6.3	17
48	The tumour suppressor CDKN2A/p16INK4a regulates adipogenesis and bone marrow-dependent development of perivascular adipose tissue. Diabetes and Vascular Disease Research, 2017, 14, 516-524.	2.0	16
49	Prognostic value of plasma MR-proADM vs NT-proBNP for heart failure in people with type 2 diabetes: the SURDIAGENE prospective study. Diabetologia, 2018, 61, 2643-2653.	6.3	15
50	Ross procedure is a safe treatment option for aortic valve endocarditis: Long-term follow-up of 42 patients. International Journal of Cardiology, 2016, 203, 62-68.	1.7	14
51	Obesity Paradox in the Clinical Significance of Effective Prosthetic Orifice Area After Aortic Valve Replacement. JACC: Cardiovascular Imaging, 2019, 12, 208-210.	5.3	14
52	Epicardial fat amount is associated with the magnitude of left ventricular remodeling in aortic stenosis. International Journal of Cardiovascular Imaging, 2019, 35, 267-273.	1.5	13
53	From cardiac mitochondrial dysfunction to clinical arrhythmias. International Journal of Cardiology, 2015, 184, 597-599.	1.7	12
54	Comment on Patel et al. ACE2 Deficiency Worsens Epicardial Adipose Tissue Inflammation and Cardiac Dysfunction in Response to Diet-Induced Obesity. Diabetes 2016;65:85â€“95. Diabetes, 2016, 65, e1-e2.	0.6	12

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55	Tissue-Level Cardiac Electrophysiology Studied in Murine Myocardium Using a Microelectrode Array: Autonomic and Thermal Modulation. Journal of Membrane Biology, 2017, 250, 471-481.	2.1	12
56	Cardiopulmonary exercise testing is a better outcome predictor than exercise echocardiography in asymptomatic aortic stenosis. International Journal of Cardiology, 2017, 227, 908-914.	1.7	12
57	Urinary Sodium Concentration Is an Independent Predictor of All-Cause and Cardiovascular Mortality in a Type 2 Diabetes Cohort Population. Journal of Diabetes Research, 2017, 2017, 1-10.	2.3	12
58	Time to Check the Clock in Cardiovascular Research and Medicine. Circulation Research, 2018, 123, 648-650.	4.5	12
59	Differential effects of inhibitory G protein isoforms on G protein-gated inwardly rectifying K⁺ currents in adult murine atria. American Journal of Physiology - Cell Physiology, 2018, 314, C616-C626.	4.6	12
60	Prognostic significance of the renal resistive index in the primary prevention of type II diabetes. Journal of Clinical Hypertension, 2020, 22, 223-230.	2.0	11
61	The synthetic pentasaccharide fondaparinux prevents coronary microvascular injury and myocardial dysfunction in the ischemic heart. Thrombosis and Haemostasis, 2008, 100, 912-919.	3.4	10
62	Right Ventricular Pacing With Mechanical Dyssynchrony Causes Apoptosis Interruptus and Calcium Mishandling. Canadian Journal of Cardiology, 2013, 29, 510-518.	1.7	10
63	Macrophage Migration Inhibitory Factor Induces Contractile and Mitochondria Dysfunction by Altering Cytoskeleton Network in the Human Heart*. Critical Care Medicine, 2013, 41, e125-e133.	0.9	10
64	2D-speckle tracking right ventricular strain to assess right ventricular systolic function in systolic heart failure. Analysis of the right ventricular free and posterolateral walls. International Journal of Cardiology, 2017, 245, 190-195.	1.7	10
65	Clinical significance of electrocardiographic markers of myocardial damage prior to aortic valve replacement. International Journal of Cardiology, 2020, 307, 130-135.	1.7	10
66	Prognostic value of aerobic capacity and exercise oxygen pulse in postaortic dissection patients. Clinical Cardiology, 2021, 44, 252-260.	1.8	10
67	Contrasting effects of diabetes and metabolic syndrome on post-operative atrial fibrillation and in-hospital outcome after cardiac surgery. International Journal of Cardiology, 2013, 167, 2347-2350.	1.7	9
68	Feasibility of Doppler hemodynamic evaluation of primary and secondary mitral regurgitation during exercise echocardiography. International Journal of Cardiovascular Imaging, 2015, 31, 291-299.	1.5	9
69	Peri-operative acute kidney injury upon cardiac surgery time-of-day. International Journal of Cardiology, 2018, 272, 54-59.	1.7	9
70	Utility of Three-Dimensional Transesophageal Echocardiography for Mitral Annular Sizing in Transcatheter Mitral Valve Replacement Procedures: A Cardiac Computed Tomographic Comparative Study. Journal of the American Society of Echocardiography, 2020, 33, 1245-1252.e2.	2.8	9
71	Electrochemical and electronic detection of biomarkers in serum: a systematic comparison using aptamer-functionalized surfaces. Analytical and Bioanalytical Chemistry, 2022, 414, 5319-5327.	3.7	9
72	Prognostic values of exercise echocardiography and cardiopulmonary exercise testing in patients with primary mitral regurgitation. European Heart Journal Cardiovascular Imaging, 2022, 23, 1552-1561.	1.2	9

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73	Day-Time Declamping Is Associated with Better Outcomes in Kidney Transplantation: The Circarein Study. Journal of Clinical Medicine, 2021, 10, 2322.	2.4	8
74	Pivotal Role of Bedside Doppler Echocardiography in the Assessment of Patients with Acute Heart Failure and Mitral Regurgitation. Cardiology, 2009, 113, 249-259.	1.4	7
75	Cardiovascular prognosis in patients with type 2 diabetes: Contribution of heart and kidney subclinical damage. American Heart Journal, 2015, 169, 108-114.e7.	2.7	7
76	Reproducibility of reading echocardiographic parameters to assess severity of mitral regurgitation. Insights from a French multicentre study. Archives of Cardiovascular Diseases, 2020, 113, 599-606.	1.6	7
77	Nutritional biomarkers and heart failure requiring hospitalization in patients with type 2 diabetes: the SURDIAGENE cohort. Cardiovascular Diabetology, 2022, 21, .	6.8	7
78	Left ventricular myocardial performance index predicts poor outcome during COPD exacerbation. International Journal of Cardiology, 2014, 173, 575-579.	1.7	6
79	Impact of remote monitoring on reducing the burden of inappropriate shocks related to implantable cardioverter-defibrillator lead fractures: insights from a French single-centre registry. Europace, 2016, 18, 820-827.	1.7	6
80	Myocardial Function in Patients With Radiation-Associated Aortic Stenosis Undergoing Transcatheter Aortic ValveÂReplacement. JACC: Cardiovascular Imaging, 2020, 13, 1450-1452.	5.3	6
81	Clinical significance of myocardial work parameters after acute myocardial infarction. European Heart Journal Open, 2022, 2, .	2.3	6
82	Diabetes mellitus and cardiovascular mortality across the spectrum of aortic stenosis. Heart, 2022, 108, 1815-1821.	2.9	6
83	Clinical Significance of Right Ventricular Longitudinal Function Parameters After AorticÂValve Replacement. JACC: Cardiovascular Imaging, 2018, 11, 651-652.	5.3	5
84	No prognostic role of a GWAS-derived genetic risk score in renal outcomes for patients from French cohorts with type 1 and type 2 diabetes. Diabetes and Metabolism, 2019, 45, 494-497.	2.9	5
85	Single breath-hold compressed sensing real-time cine imaging to assess left ventricular motion in myocardial infarction. Diagnostic and Interventional Imaging, 2021, 102, 297-303.	3.2	5
86	Transcatheter Mitral Valve Replacement Guided by Echocardiographicâ€“CT ScanÂFusion. JACC: Cardiovascular Interventions, 2020, 13, 1376-1378.	2.9	5
87	Compressed Sensing Real-Time Cine Reduces CMR Arrhythmia-Related Artifacts. Journal of Clinical Medicine, 2021, 10, 3274.	2.4	5
88	Pectus excavatum repair improves cardiovascular function at maximal exercise by facilitating heart filling. European Journal of Cardio-thoracic Surgery, 2013, 43, 661-661.	1.4	4
89	Macrophage Migration Inhibitory Factor Inhibition Is Deleterious for High-Fat Diet-Induced Cardiac Dysfunction. PLoS ONE, 2013, 8, e58718.	2.5	4
90	Aortic root size is associated with nocturnal blood pressure in a population of hypertensive patients under treatment for obstructive sleep apnea. Sleep and Breathing, 2019, 23, 439-446.	1.7	4

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91	60-S Retrogated Compressed Sensing 2D Cine of the Heart: Sharper Borders and Accurate Quantification. Journal of Clinical Medicine, 2021, 10, 2417.	2.4	4
92	Late Bioprosthetic Mitral Valve Thrombosis: A Link With Postoperative Heparin-Induced Thrombocytopenia?. Journal of the American Society of Echocardiography, 2009, 22, 1310.e5-1310.e6.	2.8	3
93	Right Ventricular Volume and Function Assessment in Congenital Heart Disease Using CMR Compressed-Sensing Real-Time Cine Imaging. Journal of Clinical Medicine, 2021, 10, 1930.	2.4	3
94	Atrial septal defect associated with dilated cardiomyopathy in the setting of acute cardiac failure: importance of comprehensive bedside echocardiography in ICU. European Heart Journal Cardiovascular Imaging, 2010, 11, E11-E11.	1.2	2
95	Renal complications correlate with electrical atrial vulnerability hallmarks in type 2 diabetic patients. International Journal of Cardiology, 2012, 159, 63-66.	1.7	2
96	Prognostic significance of reverse dipping status on lower limb event in type 2 diabetic patients without peripheral arterial disease. Acta Diabetologica, 2022, , 1.	2.5	2
97	The slope of the stretchâ€“strain relationship as a non-invasive contractility index: Insights from mitral regurgitation surgery. International Journal of Cardiology, 2015, 194, 75-77.	1.7	1
98	Electrical atrial vulnerability and renal complications in type 2 diabetes. Diabetologia, 2016, 59, 861-862.	6.3	1
99	Modified David Operation: A New Simple Method Using a Single Inflow Suture Line. , 2018, , 217-223.		1
100	Unusual cause of acute coronary syndrome. Archives of Cardiovascular Diseases, 2008, 101, 795-796.	1.6	0
101	Forgotten needles. Emergency Medicine Journal, 2008, 25, 61-61.	1.0	0
102	Aortic valve stenosis: Survey on practice in the north of France. International Journal of Cardiology, 2013, 168, 5031-5032.	1.7	0
103	Omentin-1, epicardial fat and coronary artery disease. Atherosclerosis, 2016, 255, 224-225.	0.8	0
104	Daytime variations in perioperative myocardial injury â€“ Authors' reply. Lancet, The, 2018, 391, 2106.	13.7	0
105	Utility of 3-dimensional transoesophageal echocardiography for mitral annular sizing in transcatheter mitral valve replacement procedures: a cardiac computed tomography comparative study. European Heart Journal Cardiovascular Imaging, 2021, 22, .	1.2	0
106	Forgotten needles. BMJ Case Reports, 2009, 2009, bcr2007046045-bcr2007046045.	0.5	0