Marie-Annick Clavel

List of Publications by Year in Descending Order

218 papers	7,912 citations	49 h-index	83 g-index
292 ext. papers	10,796 ext. citations	5.6 avg, IF	6.05 L-index

#	Paper	IF	Citations
218	The Canadian Women's Heart Health Alliance Atlas on the Epidemiology, Diagnosis, and Management of Cardiovascular Disease in Women - Chapter 5: Sex- and Gender-Unique Manifestations of Cardiovascular Disease.. *CJC Open*, **2022**, 4, 243-262	2	0
217	Incremental Prognostic Value of Semiautomated Left Ventricular Strain to BNP in Asymptomatic Aortic Stenosis.. *JACC: Cardiovascular Imaging*, **2022**, 15, 947-950	8.4	
216	Cardiac Damage Staging Classification in Asymptomatic Moderate or Severe Primary Mitral Regurgitation. *Structural Heart*, **2022**, 100004	0.6	0
215	Ventricular–arterial coupling and arterial load in aortic valve disease **2022**, 591-607		
214	Sex-Related Factors in Valvular Heart Disease: JACC Focus Seminar 5/7.. *Journal of the American College of Cardiology*, **2022**, 79, 1506-1518	15.1	0
213	Sex Differences in the Progression of Aortic Valve Calcification and Clinical Outcomes - The PROGRESSA Study. *JACC: Cardiovascular Imaging*, **2022**,	8.4	
212	Computed Tomography Aortic Valve Calcium Scoring in Patients With Bicuspid Aortic Valve Stenosis. *Structural Heart*, **2022**, 6, 100027	0.6	
211	Impact of Left-Ventricular Dysfunction in Patients With High- and Low- Gradient Severe Aortic Stenosis Following Transcatheter Aortic Valve Replacement. *Canadian Journal of Cardiology*, **2021**, 37, 1103-1111	3.8	1
210	Accuracy of stroke volume measurement with phase-contrast cardiovascular magnetic resonance in patients with aortic stenosis. *Journal of Cardiovascular Magnetic Resonance*, **2021**, 23, 124	6.9	
209	Clinical Value of Stress Transaortic Flow Rate During Dobutamine Echocardiography in Reduced Left Ventricular Ejection Fraction, Low-Gradient Aortic Stenosis: A Multicenter Study. *Circulation: Cardiovascular Imaging*, **2021**, 14, e012809	3.9	0
208	Reply: Valve-in-Valve Transcatheter Aortic Valve Replacement Versus Redo Surgical Aortic Valve Replacement. *JACC: Cardiovascular Interventions*, **2021**, 14, 927-928	5	
207	Flexibility of microstructural adaptations in airway smooth muscle. *Journal of Applied Physiology*, **2021**, 130, 1555-1561	3.7	0
206	Reply: Meta-Analysis: Valve-in-Valve TAVR Versus Redo SAVR. *JACC: Cardiovascular Interventions*, **2021**, 14, 1157-1158	5	
205	Impact of sex on the management and outcome of aortic stenosis patients. *European Heart Journal*, **2021**, 42, 2683-2691	9.5	10
204	Moderate Aortic Stenosis in Patients With Heart Failure and Reduced Ejection Fraction. *Journal of the American College of Cardiology*, **2021**, 77, 2796-2803	15.1	2
203	Moderate Aortic Stenosis in Patients With Heart Failure and Reduced Ejection Fraction. *Journal of the American College of Cardiology*, **2021**, 77, 2796-2803	15.1	11
202	Left ventricular asymmetric remodeling and subclinical left ventricular dysfunction in patients with calcific aortic valve stenosis - Results from a subanalysis of the PROGRESSA study. *International Journal of Cardiology*, **2021**, 332, 148-156	3.2	

201	Early benefits of bariatric surgery on subclinical cardiac function: Contribution of visceral fat mobilization. *Metabolism: Clinical and Experimental*, **2021**, 119, 154773	12.7	2
200	Doppler Velocity Index Outcomes Following Surgical or Transcatheter Aortic Valve Replacement in the PARTNER Trials. *JACC: Cardiovascular Interventions*, **2021**, 14, 1594-1606	5	0
199	Correlates of Coronary Artery Calcification Prevalence and Severity in Patients With Heterozygous Familial Hypercholesterolemia. *CJC Open*, **2021**, 3, 62-70	2	2
198	Reclassification of prosthesis-patient mismatch after transcatheter aortic valve replacement using predicted vs. measured indexed effective orifice area. *European Heart Journal Cardiovascular Imaging*, **2021**, 22, 11-20	4.1	4
197	Effect of Regional Upper Septal Hypertrophy on Echocardiographic Assessment of Left Ventricular Mass and Remodeling in Aortic Stenosis. *Journal of the American Society of Echocardiography*, **2021**, 34, 62-71	5.8	2
196	The Canadian Women's Heart Health Alliance ATLAS on the Epidemiology, Diagnosis, and Management of Cardiovascular Disease in Women-Chapter 2: Scope of the Problem. *CJC Open*, **2021**, 3, 1-11	2	7
195	Valve-in-Valve Transcatheter Aortic Valve Replacement Versus Redo Surgical Aortic Valve Replacement: An Updated Meta-Analysis. *JACC: Cardiovascular Interventions*, **2021**, 14, 211-220	5	27
194	Sex and Race Differences in the Pathophysiology, Diagnosis, Treatment, and Outcomes of Valvular Heart Diseases. *Canadian Journal of Cardiology*, **2021**, 37, 980-991	3.8	6
193	Prosthesis-Patient Mismatch After Aortic Valve Replacement in the PARTNER 2 Trial and Registry. *JACC: Cardiovascular Interventions*, **2021**, 14, 1466-1477	5	4
192	Sex-Specific Associations of Genetically Predicted Circulating Lp(a) (Lipoprotein(a)) and Hepatic Gene Expression Levels With Cardiovascular Outcomes: Mendelian Randomization and Observational Analyses. *Circulation Genomic and Precision Medicine*, **2021**, 14, e003271	5.2	2
191	Markers of Myocardial Damage Predict Mortality in Patients With Aortic Stenosis. *Journal of the American College of Cardiology*, **2021**, 78, 545-558	15.1	7
190	Reply: Calcium Score to Specify Assessment of Low-Flow Aortic Stenosis Severity. *Journal of the American College of Cardiology*, **2021**, 78, e73	15.1	
189	A Machine-Learning Framework to Identify Distinct Phenotypes of Aortic Stenosis Severity. *JACC: Cardiovascular Imaging*, **2021**, 14, 1707-1720	8.4	5
188	Contrast-enhanced computed tomography assessment of aortic stenosis. *Heart*, **2021**, 107, 1905-1911	5.1	5
187	Comparison of Early Surgical or Transcatheter Aortic Valve Replacement Versus Conservative Management in Low-Flow, Low-Gradient Aortic Stenosis Using Inverse Probability of Treatment Weighting: Results From the TOPAS Prospective Observational Cohort Study. *Journal of the American Heart Association*, **2020**, 9, e017870	6	6
186	Transvalvular Flow, Sex, and Survival After Valve Replacement Surgery in Patients With Severe Aortic Stenosis. *Journal of the American College of Cardiology*, **2020**, 75, 1897-1909	15.1	15
185	Age, Sex, and Valve Phenotype Differences in Fibro-Calcific Remodeling of Calcified Aortic Valve. *Journal of the American Heart Association*, **2020**, 9, e015610	6	26
184	Regression of Left Ventricular Mass After Transcatheter Aortic Valve Replacement: The PARTNER Trials and Registries. *Journal of the American College of Cardiology*, **2020**, 75, 2446-2458	15.1	26

183	Effect of bicuspid aortic valve phenotype on progression of aortic stenosis. *European Heart Journal Cardiovascular Imaging*, **2020**, 21, 727-734	4.1	11
182	Estimation of Stroke Volume and Aortic Valve Area in Patients with Aortic Stenosis: A Comparison of Echocardiography versus Cardiovascular Magnetic Resonance. *Journal of the American Society of Echocardiography*, **2020**, 33, 953-963.e5	5.8	9
181	Pathophysiology of Aortic Valve Calcification and Stenosis: Novel Insights From Reconstructed Multiplanar Computed Tomography. *JACC: Cardiovascular Imaging*, **2020**, 13, 2255-2258	8.4	2
180	Left Ventricular Hypertrophy and Clinical Outcomes Over 5 Years After TAVR: An Analysis of the PARTNER Trials and Registries. *JACC: Cardiovascular Interventions*, **2020**, 13, 1329-1339	5	13
179	Genetic and In Vitro Inhibition of and Calcific Aortic Valve Stenosis. *JACC Basic To Translational Science*, **2020**, 5, 649-661	8.7	18
178	Aortic Valve Neocuspidization (Ozaki Procedure) in Patients with Small Aortic Annulus (≤21 mm): A Multicenter Study. *Structural Heart*, **2020**, 4, 413-419	0.6	4
177	Lipoprotein-associated phospholipase A2 activity, genetics and calcific aortic valve stenosis in humans. *Heart*, **2020**, 106, 1407-1412	5.1	3
176	State of the Science in Women's Cardiovascular Disease: A Canadian Perspective on the Influence of Sex and Gender. *Journal of the American Heart Association*, **2020**, 9, e015634	6	55
175	Mitral Regurgitation in Low-Flow, Low-Gradient Aortic Stenosis Patients Undergoing TAVR: Insights From the TOPAS-TAVI Registry. *JACC: Cardiovascular Interventions*, **2020**, 13, 567-579	5	5
174	Characteristics and usefulness of unintended premature ventricular contraction during invasive assessment of aortic stenosis. *International Journal of Cardiology*, **2020**, 313, 35-38	3.2	0
173	Extracellular Myocardial Volume in Patients With Aortic Stenosis. *Journal of the American College of Cardiology*, **2020**, 75, 304-316	15.1	69
172	Attenuated Mitral Leaflet Enlargement Contributes to Functional Mitral Regurgitation After Myocardial Infarction. *Journal of the American College of Cardiology*, **2020**, 75, 395-405	15.1	16
171	Bone Mineral Density and Progression Rate of Calcific Aortic Valve Stenosis. *Journal of the American College of Cardiology*, **2020**, 75, 1725-1726	15.1	3
170	Prognostic Value of N-Terminal Pro-B-Type Natriuretic Peptide in Elderly Patients With Valvular Heart Disease. *Journal of the American College of Cardiology*, **2020**, 75, 1659-1672	15.1	12
169	Discordant Echocardiographic Grading in Low Gradient Aortic Stenosis (DEGAS Study) From the Italian Society of Echocardiography and Cardiovascular Imaging Research Network: Rationale and Study Design. *Journal of Cardiovascular Echography*, **2020**, 30, 52-61	0.6	1
168	Immediate Outcomes of Aortic Valve Neocuspidization with Glutaraldehyde-treated Autologous Pericardium: a Multicenter Study. *Brazilian Journal of Cardiovascular Surgery*, **2020**, 35, 241-248	1.1	6
167	Balloon aortic valvuloplasty as a palliative treatment in patients with severe aortic stenosis and limited life expectancy: a single center experience. *Aging*, **2020**, 12, 16597-16608	5.6	0
166	Study Design of the Prospective Non-Randomized Single-Arm Multicenter Evaluation of the Durability of Aortic Bioprosthetic Valves with RESILIA Tissue in Subjects under 65 Years Old (RESILIENCE Trial). *Structural Heart*, **2020**, 4, 46-52	0.6	6

165	Calcific Aortic Valve Stenosis and Atherosclerotic Calcification. *Current Atherosclerosis Reports*, **2020**, 22, 2	6	14
164	Airway smooth muscle adapting in dynamic conditions is refractory to the bronchodilator effect of a deep inspiration. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2020**, 318, L452-L458	5.8	2
163	Low and elevated B-type natriuretic peptide levels are associated with increased mortality in patients with preserved ejection fraction undergoing transcatheter aortic valve replacement: an analysis of the PARTNER II trial and registry. *European Heart Journal*, **2020**, 41, 958-969	9.5	16
162	Biomarkers Associated with Aortic Stenosis and Structural Bioprosthesis Dysfunction. *Cardiology Clinics*, **2020**, 38, 47-54	2.5	0
161	Sex Differences in the Pathophysiology, Diagnosis, and Management of Aortic Stenosis. *Cardiology Clinics*, **2020**, 38, 129-138	2.5	7
160	Assessment of Aortic Stenosis Severity: A Multimodality Approach. *Cardiology Clinics*, **2020**, 38, 13-22	2.5	4
159	Structural Deterioration of Transcatheter Versus Surgical Aortic Valve Bioprostheses in the PARTNER-2 Trial. *Journal of the American College of Cardiology*, **2020**, 76, 1830-1843	15.1	40
158	Association of Bioprosthetic Aortic Valve Leaflet Calcification on Hemodynamic and Clinical Outcomes. *Journal of the American College of Cardiology*, **2020**, 76, 1737-1748	15.1	4
157	Outcome of Flow-Gradient Patterns of Aortic Stenosis After Aortic Valve Replacement: An Analysis of the PARTNER 2 Trial and Registry. *Circulation: Cardiovascular Interventions*, **2020**, 13, e008792	6	7
156	Multimodality Imaging for Discordant Low-Gradient Aortic Stenosis: Assessing the Valve and the Myocardium. *Frontiers in Cardiovascular Medicine*, **2020**, 7, 570689	5.4	2
155	Association of Natriuretic Peptide Levels After Transcatheter Aortic Valve Replacement With Subsequent Clinical Outcomes. *JAMA Cardiology*, **2020**, 5, 1113-1123	16.2	5
154	Multiplanar "En Face" Reconstruction of the Aortic Valve: Impact on Aortic Valve Calcium Scoring. *JACC: Cardiovascular Imaging*, **2020**, 13, 2678-2680	8.4	2
153	Pre- and Post-Operative Stroke Volume Impact After Surgical Aortic Valve Replacement for Severe Aortic Stenosis. *Journal of the American College of Cardiology*, **2020**, 76, 2036-2038	15.1	0
152	Mixed Aortic Valve Disease: A Diagnostic Challenge, a Prognostic Threat. *Structural Heart*, **2020**, 4, 468-474	0.6	0
151	The right parasternal window: when Doppler-beam alignment may be life-saving in patients with aortic valve stenosis. *Journal of Cardiovascular Medicine*, **2020**, 21, 831-834	1.9	6
150	Sex-differences in echocardiographic assessment of aortic valve in young adult LDLr/ApoB/IGF-II mice. *Experimental Gerontology*, **2020**, 140, 111075	4.5	2
149	Sex-Related Differences in the Extent of Myocardial Fibrosis in Patients With Aortic Valve Stenosis. *JACC: Cardiovascular Imaging*, **2020**, 13, 699-711	8.4	26
148	Why and How to Measure Aortic Valve Calcification in Patients With Aortic Stenosis. *JACC: Cardiovascular Imaging*, **2019**, 12, 1835-1848	8.4	57

147	Shortening of airway smooth muscle is modulated by prolonging the time without simulated deep inspirations in ovine tracheal strips. *Journal of Applied Physiology*, **2019**, 127, 1528-1538	3.7	2
146	Long-Term Implications of Atrial Fibrillation in Patients With Degenerative Mitral Regurgitation. *Journal of the American College of Cardiology*, **2019**, 73, 264-274	15.1	24
145	Impact of surgical aortic root enlargement on the outcomes of aortic valve replacement: a meta-analysis of 13 174 patients. *Interactive Cardiovascular and Thoracic Surgery*, **2019**, 29, 74-82	1.8	13
144	Imaging and Impact of Myocardial Fibrosis in Aortic Stenosis. *JACC: Cardiovascular Imaging*, **2019**, 12, 283-296	8.4	79
143	How Do We Reconcile Echocardiography, Computed Tomography, and Hybrid Imaging in Assessing Discordant Grading of Aortic Stenosis Severity?. *JACC: Cardiovascular Imaging*, **2019**, 12, 267-282	8.4	23
142	Surgical aortic valve replacement and patient-prosthesis mismatch: a meta-analysis of 108 182 patients. *European Journal of Cardio-thoracic Surgery*, **2019**, 56, 44-54	3	25
141	Discordant Grading of Aortic Stenosis Severity: New Insights from an In Vitro Study. *Structural Heart*, **2019**, 3, 415-422	0.6	2
140	Genetic Variation in LPA, Calcific Aortic Valve Stenosis in Patients Undergoing Cardiac Surgery, and Familial Risk of Aortic Valve Microcalcification. *JAMA Cardiology*, **2019**, 4, 620-627	16.2	17
139	Chronic Kidney Disease and the Pathophysiology of Valvular Heart Disease. *Canadian Journal of Cardiology*, **2019**, 35, 1195-1207	3.8	11
138	Functional and Morphological Interplay of the Aortic Valve, the Aortic Root, and the Left Ventricle **2019**, 99-114		1
137	Prosthesis-Patient Mismatch Negatively Affects Outcomes after Mitral Valve Replacement: Meta-Analysis of 10,239 Patients. *Brazilian Journal of Cardiovascular Surgery*, **2019**, 34, 203-212	1.1	2
136	Lipoprotein(a), Oxidized Phospholipids, and Aortic Valve Microcalcification Assessed by 18F-Sodium Fluoride Positron Emission Tomography and Computed Tomography. *CJC Open*, **2019**, 1, 131-140	2	17
135	Oral Anticoagulation Therapy and Progression of Calcific Aortic Valve Stenosis. *Journal of the American College of Cardiology*, **2019**, 73, 1869-1871	15.1	12
134	Valve-in-Valve Procedure in Failed Transcatheter Aortic Valves. *JACC: Cardiovascular Imaging*, **2019**, 12, 198-202	8.4	9
133	Early Aortic Valve Replacement versus Watchful Waiting in Asymptomatic Severe Aortic Stenosis: A Study-Level Meta-Analysis. *Structural Heart*, **2019**, 3, 483-490	0.6	3
132	Normal-flow low-gradient severe aortic stenosis is a frequent and real entity. *European Heart Journal Cardiovascular Imaging*, **2019**, 20, 1102-1104	4.1	2
131	Staging Cardiac Damage in Patients With Asymptomatic Aortic Valve Stenosis. *Journal of the American College of Cardiology*, **2019**, 74, 550-563	15.1	61
130	Genetic Association Analyses Highlight , , and As 3 New Susceptibility Genes Underlying Calcific Aortic Valve Stenosis. *Circulation Genomic and Precision Medicine*, **2019**, 12, e002617	5.2	20

129	Aortic Stenosis and Cardiac Amyloidosis: JACC Review Topic of the Week. *Journal of the American College of Cardiology*, **2019**, 74, 2638-2651	15.1	76
128	Biomarkers of aortic bioprosthetic valve structural degeneration. *Current Opinion in Cardiology*, **2019**, 34, 132-139	2.1	6
127	Outcomes From Transcatheter Aortic Valve Replacement in Patients With Low-Flow, Low-Gradient Aortic Stenosis and Left Ventricular Ejection Fraction Less Than 30%: A Substudy From the TOPAS-TAVI Registry. *JAMA Cardiology*, **2019**, 4, 64-70	16.2	37
126	Implications of Left Ventricular Geometry in Low-Flow Aortic Stenosis: A PARTNER 2 Trial Subanalysis. *JACC: Cardiovascular Imaging*, **2019**, 12, 367-368	8.4	2
125	The Role of Imaging in Measuring Disease Progression and Assessing Novel Therapies in Aortic Stenosis. *JACC: Cardiovascular Imaging*, **2019**, 12, 185-197	8.4	10
124	Sex-Related Differences in Low-Gradient, Low-Ejection Fraction Aortic Stenosis: Results From the Multicenter TOPAS Study. *JACC: Cardiovascular Imaging*, **2019**, 12, 203-205	8.4	3
123	Prosthetic Aortic Valves **2019**, 454-466		2
122	Impact of Metabolic Syndrome and/or Diabetes Mellitus on Left Ventricular Mass and Remodeling in Patients With Aortic Stenosis Before and After Aortic Valve Replacement. *American Journal of Cardiology*, **2019**, 123, 123-131	3	4
121	Outcome and undertreatment of mitral regurgitation: a community cohort study. *Lancet, The*, **2018**, 391, 960-969	40	126
120	A transcriptome-wide association study identifies PALMD as a susceptibility gene for calcific aortic valve stenosis. *Nature Communications*, **2018**, 9, 988	17.4	53
119	The MIDA Mortality Risk Score: development and external validation of a prognostic model for early and late death in degenerative mitral regurgitation. *European Heart Journal*, **2018**, 39, 1281-1291	9.5	22
118	Dobutamine Stress Echocardiography for Management of Low-Flow, Low-Gradient Aortic Stenosis. *Journal of the American College of Cardiology*, **2018**, 71, 475-485	15.1	47
117	Mitral Effective Regurgitant Orifice Area Predicts Pulmonary Artery Pressure Level in Patients with Aortic Valve Stenosis. *Journal of the American Society of Echocardiography*, **2018**, 31, 570-577.e1	5.8	7
116	Normal-Flow Low-Gradient Severe Aortic Stenosis: Myth or Reality?. *Structural Heart*, **2018**, 2, 180-187	0.6	5
115	Increasing Pulmonary Arterial Pressure at Low Level of Exercise in Asymptomatic, Organic Mitral Regurgitation. *Journal of the American College of Cardiology*, **2018**, 71, 700-701	15.1	1
114	Sex-related Differences in Calcific Aortic Valve Stenosis: Pathophysiology, Epidemiology, Etiology, Diagnosis, Presentation, and Outcomes. *Structural Heart*, **2018**, 2, 102-113	0.6	4
113	Transcatheter versus surgical valve replacement for a failed pulmonary homograft in the Ross population. *Journal of Thoracic and Cardiovascular Surgery*, **2018**, 155, 1434-1444	1.5	12
112	Workup and Management of Patients With Paradoxical Low-Flow, Low-Gradient Aortic Stenosis. *Current Treatment Options in Cardiovascular Medicine*, **2018**, 20, 49	2.1	10

111	Computed Tomography Aortic Valve Calcium Scoring in Patients With Aortic Stenosis. *Circulation: Cardiovascular Imaging*, **2018**, 11, e007146	3.9	147
110	ApoB/ApoA-I Ratio is Associated With Faster Hemodynamic Progression of Aortic Stenosis: Results From the PROGRESSA (Metabolic Determinants of the Progression of Aortic Stenosis) Study. *Journal of the American Heart Association*, **2018**, 7,	6	7
109	Transcatheter Aortic Valve Replacement in Patients With Low-Flow, Low-Gradient Aortic Stenosis: The TOPAS-TAVI Registry. *Journal of the American College of Cardiology*, **2018**, 71, 1297-1308	15.1	88
108	Concomitant mitral regurgitation and aortic stenosis: one step further to low-flow preserved ejection fraction aortic stenosis. *European Heart Journal Cardiovascular Imaging*, **2018**, 19, 569-573	4.1	16
107	B-Type Natriuretic Peptide and High-Sensitivity Cardiac Troponin for Risk Stratification in Low-Flow, Low-Gradient Aortic Stenosis: A Substudy of the TOPAS Study. *JACC: Cardiovascular Imaging*, **2018**, 11, 939-947	8.4	16
106	Hemodynamic Deterioration of Surgically Implanted Bioprosthetic Aortic Valves. *Journal of the American College of Cardiology*, **2018**, 72, 241-251	15.1	42
105	Soluble CD14 is associated with the structural failure of bioprostheses. *Clinica Chimica Acta*, **2018**, 485, 173-177	6.2	3
104	Timing of intervention in aortic stenosis: a review of current and future strategies. *Heart*, **2018**, 104, 2067-2076	5.1	48
103	Bioprosthetic aortic valve durability in the era of transcatheter aortic valve implantation. *Heart*, **2018**, 104, 1323-1332	5.1	46
102	Paravalvular Regurgitation After Transcatheter Aortic Valve Replacement: Is the Problem Solved?. *Interventional Cardiology Clinics*, **2018**, 7, 445-458	1.4	5
101	Association of Left Ventricular Global Longitudinal Strain With Asymptomatic Severe Aortic Stenosis: Natural Course and Prognostic Value. *JAMA Cardiology*, **2018**, 3, 839-847	16.2	63
100	Progression of Hypertrophy and Myocardial Fibrosis in Aortic Stenosis: A Multicenter Cardiac Magnetic Resonance Study. *Circulation: Cardiovascular Imaging*, **2018**, 11, e007451	3.9	82
99	Effect of size and position of self-expanding transcatheter valve on haemodynamics following valve-in-valve procedure in small surgical bioprostheses: an in vitro study. *EuroIntervention*, **2018**, 14, e282-e289	3.1	9
98	Deleterious variants in DCHS1 are prevalent in sporadic cases of mitral valve prolapse. *Molecular Genetics & Genomic Medicine*, **2018**, 6, 114-120	2.3	4
97	Blood, tissue and imaging biomarkers in calcific aortic valve stenosis: past, present and future. *Current Opinion in Cardiology*, **2018**, 33, 125-133	2.1	11
96	Prevalence of left ventricle non-compaction criteria in adult patients with bicuspid aortic valve versus healthy control subjects. *Open Heart*, **2018**, 5, e000869	3	4
95	Common Phenotype in Patients With Mitral Valve Prolapse Who Experienced Sudden Cardiac Death. *Circulation*, **2018**, 138, 1067-1069	16.7	20
94	Outcomes of Patients With Asymptomatic Aortic Stenosis Followed Up in Heart Valve Clinics. *JAMA Cardiology*, **2018**, 3, 1060-1068	16.2	90

93	Multimarker Approach to Identify Patients With Higher Mortality and Rehospitalization Rate After Surgical Aortic Valve Replacement for Aortic Stenosis. *JACC: Cardiovascular Interventions*, **2018**, 11, 2172-2181	5	15
92	Rate, Timing, Correlates, and Outcomes of Hemodynamic Valve Deterioration After Bioprosthetic Surgical Aortic Valve Replacement. *Circulation*, **2018**, 138, 971-985	16.7	47
91	Haemodynamic outcomes following aortic valve-in-valve procedure. *Open Heart*, **2018**, 5, e000854	3	8
90	Systolic hypertension and progression of aortic valve calcification in patients with aortic stenosis: results from the PROGRESSA study. *European Heart Journal Cardiovascular Imaging*, **2017**, 18, 70-78	4.1	35
89	Effect of age and aortic valve anatomy on calcification and haemodynamic severity of aortic stenosis. *Heart*, **2017**, 103, 32-39	5.1	23
88	Impact of left ventricular remodelling patterns on outcomes in patients with aortic stenosis. *European Heart Journal Cardiovascular Imaging*, **2017**, 18, 1378-1387	4.1	34
87	Response by Simard et al to Letter Regarding Article, "Sex-Related Discordance Between Aortic Valve Calcification and Hemodynamic Severity of Aortic Stenosis: Is Valvular Fibrosis the Explanation?". *Circulation Research*, **2017**, 120, e26	15.7	1
86	Cardiac Imaging for Assessing Low-Gradient Severe Aortic Stenosis. *JACC: Cardiovascular Imaging*, **2017**, 10, 185-202	8.4	78
85	Impact of Aortic Valve Calcification and Sex on Hemodynamic Progression and Clinical Outcomes in AS. *Journal of the American College of Cardiology*, **2017**, 69, 2096-2098	15.1	22
84	Prognostic Implications of Moderate Aortic Stenosis in Patients With Left Ventricular Systolic Dysfunction. *Journal of the American College of Cardiology*, **2017**, 69, 2383-2392	15.1	61
83	Twenty-Year Outcome After Mitral Repair Versus Replacement for Severe Degenerative Mitral Regurgitation: Analysis of a Large, Prospective, Multicenter, International Registry. *Circulation*, **2017**, 135, 410-422	16.7	132
82	Dilemma in the therapeutic management of low-gradient aortic stenosis. *Current Opinion in Cardiology*, **2017**, 32, 147-151	2.1	1
81	Severe and Asymptomatic Aortic Stenosis Management Challenge: Knowing That We Do Not Really Know. *Current Treatment Options in Cardiovascular Medicine*, **2017**, 19, 33	2.1	3
80	Forward Left Ventricular Ejection Fraction: A Simple Risk Marker in Patients With Primary Mitral Regurgitation. *Journal of the American Heart Association*, **2017**, 6,	6	8
79	Subclinical bioprosthetic aortic valve thrombosis: clinical and translational implications. *Current Opinion in Cardiology*, **2017**, 32, 137-146	2.1	6
78	Vascular Burden Impact on Echocardiographic Valvular Graft Degeneration Following a Ross Procedure in Young Adults. *Journal of the American College of Cardiology*, **2017**, 70, 1099-1101	15.1	1
77	Biomarkers in Mitral Regurgitation. *Progress in Cardiovascular Diseases*, **2017**, 60, 334-341	8.5	5
76	Impact of Vascular Hemodynamics on Aortic Stenosis Evaluation: New Insights Into the Pathophysiology of Normal Flow-Small Aortic Valve Area-Low Gradient Pattern. *Journal of the American Heart Association*, **2017**, 6,	6	18

75	Incidence, risk factors, clinical impact, and management of bioprosthesis structural valve degeneration. *Current Opinion in Cardiology*, **2017**, 32, 123-129	2.1	47
74	Impact of AVR on LV Remodeling and Function in Paradoxical Low-Flow, Low-Gradient Aortic Stenosis With Preserved LVEF. *JACC: Cardiovascular Imaging*, **2017**, 10, 88-89	8.4	6
73	Sex-Related Discordance Between Aortic Valve Calcification and Hemodynamic Severity of Aortic Stenosis: Is Valvular Fibrosis the Explanation?. *Circulation Research*, **2017**, 120, 681-691	15.7	93
72	Sex Differences and Survival in Adults With Bicuspid Aortic Valves: Verification in 3 Contemporary Echocardiographic Cohorts. *Journal of the American Heart Association*, **2016**, 5,	6	37
71	Calcific aortic stenosis. *Nature Reviews Disease Primers*, **2016**, 2, 16006	51.1	341
70	Right ventricular longitudinal strain for risk stratification in low-flow, low-gradient aortic stenosis with low ejection fraction. *Heart*, **2016**, 102, 548-54	5.1	26
69	Effect of Recurrent Mitral Regurgitation Following Degenerative Mitral Valve Repair: Long-Term Analysis of Competing Outcomes. *Journal of the American College of Cardiology*, **2016**, 67, 488-98	15.1	128
68	Sex-related differences in calcific aortic stenosis: correlating clinical and echocardiographic characteristics and computed tomography aortic valve calcium score to excised aortic valve weight. *European Heart Journal*, **2016**, 37, 693-9	9.5	45
67	Autotaxin interacts with lipoprotein(a) and oxidized phospholipids in predicting the risk of calcific aortic valve stenosis in patients with coronary artery disease. *Journal of Internal Medicine*, **2016**, 280, 509-517	10.8	60
66	Arrhythmic Risk Following Recovery of Left Ventricular Ejection Fraction in Patients with Primary Prevention ICD. *PACE - Pacing and Clinical Electrophysiology*, **2016**, 39, 680-9	1.6	6
65	Echocardiographic predictors of outcomes in adults with aortic stenosis. *Heart*, **2016**, 102, 934-42	5.1	43
64	Relationship Between QT Interval and Outcome in Low-Flow Low-Gradient Aortic Stenosis With Low Left Ventricular Ejection Fraction. *Journal of the American Heart Association*, **2016**, 5,	6	7
63	Low-gradient aortic stenosis. *European Heart Journal*, **2016**, 37, 2645-57	9.5	142
62	Reply: Inconsistency of Hemodynamic Data in Low-Gradient Severe Aortic Stenosis: Paradoxical Low-Gradient Aortic Stenosis: The HFpEF of Aortic Stenosis. *Journal of the American College of Cardiology*, **2016**, 67, 2448-2449	15.1	
61	Discordant Grading of Aortic Stenosis Severity: Echocardiographic Predictors of Survival Benefit Associated With Aortic Valve Replacement. *JACC: Cardiovascular Imaging*, **2016**, 9, 797-805	8.4	43
60	Comprehensive Imaging in Women With Organic Mitral Regurgitation: Implications for Clinical Outcome. *JACC: Cardiovascular Imaging*, **2016**, 9, 388-96	8.4	25
59	Pathophysiology and management of multivalvular disease. *Nature Reviews Cardiology*, **2016**, 13, 429-40	14.8	36
58	Association of B-Type Natriuretic Peptide With Survival in Patients With Degenerative Mitral Regurgitation. *Journal of the American College of Cardiology*, **2016**, 68, 1297-307	15.1	30

57	Doppler Echocardiographic Quantitation of Aortic Valve Stenosis: A Science in Constant Evolution. *Journal of the American Society of Echocardiography*, **2016**, 29, 1019-1022	5.8	10
56	Cardiovascular Magnetic Resonance to Evaluate Aortic Regurgitation After Transcatheter Aortic Valve Replacement. *Journal of the American College of Cardiology*, **2016**, 68, 577-585	15.1	62
55	Aortic valve area calculation in aortic stenosis by CT and Doppler echocardiography. *JACC: Cardiovascular Imaging*, **2015**, 8, 248-257	8.4	112
54	Evolution and prognostic impact of low flow after transcatheter aortic valve replacement. *Heart*, **2015**, 101, 1196-203	5.1	17
53	Mitral Annular Dynamics in Mitral Annular Calcification: A Three-Dimensional Imaging Study. *Journal of the American Society of Echocardiography*, **2015**, 28, 786-94	5.8	24
52	Is there an outcome penalty linked to guideline-based indications for valvular surgery? Early and long-term analysis of patients with organic mitral regurgitation. *Journal of Thoracic and Cardiovascular Surgery*, **2015**, 150, 50-8	1.5	49
51	Tricuspid Regurgitation Is Associated With Increased Risk of Mortality in Patients With Low-Flow Low-Gradient Aortic Stenosis and Reduced Ejection Fraction: Results of the Multicenter TOPAS Study (True or Pseudo-Severe Aortic Stenosis). *JACC: Cardiovascular Interventions*, **2015**, 8, 588-96	5	35
50	Usefulness of global left ventricular longitudinal strain for risk stratification in low ejection fraction, low-gradient aortic stenosis: results from the multicenter True or Pseudo-Severe Aortic Stenosis study. *Circulation: Cardiovascular Imaging*, **2015**, 8, e002117	3.9	56
49	Reply: Comparison of Echocardiography and CT for the Assessment of Aortic Stenosis Valve Area. *JACC: Cardiovascular Imaging*, **2015**, 8, 1116	8.4	
48	Three-Dimensional Echocardiography: A Powerful New Tool in the Evaluation of Mitral Annular Structure and Dynamics. *Journal of the American Society of Echocardiography*, **2015**, 28, 1256-7	5.8	2
47	Dynamic phenotypes of degenerative myxomatous mitral valve disease: quantitative 3-dimensional echocardiographic study. *Circulation: Cardiovascular Imaging*, **2015**, 8,	3.9	50
46	Cleft-like indentations in myxomatous mitral valves by three-dimensional echocardiographic imaging. *Heart*, **2015**, 101, 1111-7	5.1	26
45	Outcome and Impact of Aortic Valve Replacement in Patients With Preserved LVEF and Low-Gradient Aortic Stenosis. *Journal of the American College of Cardiology*, **2015**, 66, 2594-2603	15.1	110
44	Haemodynamic and anatomic progression of aortic stenosis. *Heart*, **2015**, 101, 943-7	5.1	46
43	Impact of classic and paradoxical low flow on survival after aortic valve replacement for severe aortic stenosis. *Journal of the American College of Cardiology*, **2015**, 65, 645-53	15.1	56
42	Myocardial injury following transcatheter aortic valve implantation: insights from delayed-enhancement cardiovascular magnetic resonance. *EuroIntervention*, **2015**, 11, 205-13	3.1	15
41	Patient and procedure selection for the prevention of prosthesis-patient mismatch following aortic valve replacement. *EuroIntervention*, **2015**, 11 Suppl W, W106-9	3.1	8
40	Paradoxical low-flow, low-gradient aortic stenosis despite preserved left ventricular ejection fraction: new insights from weights of operatively excised aortic valves. *European Heart Journal*, **2014**, 35, 2655-62	9.5	35

39	Impact of aortic valve calcification, as measured by MDCT, on survival in patients with aortic stenosis: results of an international registry study. *Journal of the American College of Cardiology*, **2014**, 64, 1202-13	15.1	258
38	Long-term prognostic value and serial changes of plasma N-terminal prohormone B-type natriuretic peptide in patients undergoing transcatheter aortic valve implantation. *American Journal of Cardiology*, **2014**, 113, 851-9	3	35
37	Circulating levels of matrix gla protein and progression of aortic stenosis: a substudy of the Aortic Stenosis Progression Observation: Measuring Effects of rosuvastatin (ASTRONOMER) trial. *Canadian Journal of Cardiology*, **2014**, 30, 1088-95	3.8	13
36	Cardiac magnetic resonance versus transthoracic echocardiography for the assessment and quantification of aortic regurgitation in patients undergoing transcatheter aortic valve implantation. *Heart*, **2014**, 100, 1924-32	5.1	74
35	Discordant grading of aortic stenosis using echocardiography and what it means: new insights from magnetic resonance imaging. *Canadian Journal of Cardiology*, **2014**, 30, 959-61	3.8	4
34	B-type natriuretic peptide clinical activation in aortic stenosis: impact on long-term survival. *Journal of the American College of Cardiology*, **2014**, 63, 2016-25	15.1	127
33	Visceral adiposity and left ventricular mass and function in patients with aortic stenosis: the PROGRESSA study. *Canadian Journal of Cardiology*, **2014**, 30, 1080-7	3.8	21
32	Paradoxical low flow aortic valve stenosis: incidence, evaluation, and clinical significance. *Current Cardiology Reports*, **2014**, 16, 431	4.2	18
31	Assessment of low-flow, low-gradient aortic stenosis: multimodality imaging is the key to success. *EuroIntervention*, **2014**, 10 Suppl U, U52-60	3.1	14
30	The complex nature of discordant severe calcified aortic valve disease grading: new insights from combined Doppler echocardiographic and computed tomographic study. *Journal of the American College of Cardiology*, **2013**, 62, 2329-38	15.1	295
29	Impact of hypertension and renin-angiotensin system inhibitors in aortic stenosis. *European Journal of Clinical Investigation*, **2013**, 43, 1262-72	4.6	56
28	Impact of valvuloarterial impedance on 2-year outcome of patients undergoing transcatheter aortic valve implantation. *Journal of the American Society of Echocardiography*, **2013**, 26, 691-8	5.8	26
27	Stress echocardiography to assess stenosis severity and predict outcome in patients with paradoxical low-flow, low-gradient aortic stenosis and preserved LVEF. *JACC: Cardiovascular Imaging*, **2013**, 6, 175-83	8.4	134
26	Reply: To PMID 22657269. *Journal of the American College of Cardiology*, **2013**, 61, 1833-4	15.1	
25	Insulin resistance and LVH progression in patients with calcific aortic stenosis: a substudy of the ASTRONOMER trial. *JACC: Cardiovascular Imaging*, **2013**, 6, 165-74	8.4	27
24	Impact of low flow on the outcome of high-risk patients undergoing transcatheter aortic valve replacement. *Journal of the American College of Cardiology*, **2013**, 62, 782-8	15.1	124
23	Sex differences in aortic valve calcification measured by multidetector computed tomography in aortic stenosis. *Circulation: Cardiovascular Imaging*, **2013**, 6, 40-7	3.9	134
22	Two-dimensional strain for the assessment of left ventricular function in low flow-low gradient aortic stenosis, relationship to hemodynamics, and outcome: a substudy of the multicenter TOPAS study. *Circulation: Cardiovascular Imaging*, **2013**, 6, 268-76	3.9	45

21	Outcome of patients with aortic stenosis, small valve area, and low-flow, low-gradient despite preserved left ventricular ejection fraction. *Journal of the American College of Cardiology*, **2012**, 60, 1259-67	15.1	235
20	Impact of metabolic syndrome on progression of aortic stenosis: influence of age and statin therapy. *Journal of the American College of Cardiology*, **2012**, 60, 216-23	15.1	78
19	Validation and characterization of transcatheter aortic valve effective orifice area measured by Doppler echocardiography. *JACC: Cardiovascular Imaging*, **2011**, 4, 1053-62	8.4	73
18	Performance-based functional assessment of patients undergoing transcatheter aortic valve implantation. *American Heart Journal*, **2011**, 161, 726-34	4.9	30
17	Comparison between cardiovascular magnetic resonance and transthoracic Doppler echocardiography for the estimation of effective orifice area in aortic stenosis. *Journal of Cardiovascular Magnetic Resonance*, **2011**, 13, 25	6.9	67
16	The marvel of percutaneous cardiovascular devices in the elderly. *Annals of the New York Academy of Sciences*, **2010**, 1197, 188-99	6.5	7
15	Validation of conventional and simplified methods to calculate projected valve area at normal flow rate in patients with low flow, low gradient aortic stenosis: the multicenter TOPAS (True or Pseudo Severe Aortic Stenosis) study. *Journal of the American Society of Echocardiography*, **2010**, 23, 380-6	5.8	113
14	Metabolic syndrome is associated with more pronounced impairment of left ventricle geometry and function in patients with calcific aortic stenosis: a substudy of the ASTRONOMER (Aortic Stenosis Progression Observation Measuring Effects of Rosuvastatin). *Journal of the American College of Cardiology*, **2010**, 55, 1867-74	15.1	77
13	Comparison between transcatheter and surgical prosthetic valve implantation in patients with severe aortic stenosis and reduced left ventricular ejection fraction. *Circulation*, **2010**, 122, 1928-36	16.7	225
12	Acute kidney injury following transcatheter aortic valve implantation: predictive factors, prognostic value, and comparison with surgical aortic valve replacement. *European Heart Journal*, **2010**, 31, 865-74	9.5	355
11	Optimization of Doppler echocardiographic velocity measurements using an automatic contour detection method. *Ultrasound in Medicine and Biology*, **2010**, 36, 1513-24	3.5	7
10	Electrocardiographic changes and clinical outcomes after transapical aortic valve implantation. *American Heart Journal*, **2009**, 158, 302-8	4.9	105
9	Severe valvular regurgitation and late prosthesis embolization after percutaneous aortic valve implantation. *Annals of Thoracic Surgery*, **2009**, 87, 618-21	2.7	61
8	Comparison of the hemodynamic performance of percutaneous and surgical bioprostheses for the treatment of severe aortic stenosis. *Journal of the American College of Cardiology*, **2009**, 53, 1883-91	15.1	292
7	Feasibility and initial results of percutaneous aortic valve implantation including selection of the transfemoral or transapical approach in patients with severe aortic stenosis. *American Journal of Cardiology*, **2008**, 102, 1240-6	3	116
6	Clinical vignette: paradoxical low flow, low gradient aortic stenosis despite preserved LV ejection fraction. *Archives of Cardiovascular Diseases*, **2008**, 101, 595-6	2.7	1
5	Predictors of outcomes in low-flow, low-gradient aortic stenosis: results of the multicenter TOPAS Study. *Circulation*, **2008**, 118, S234-42	16.7	166
4	Apical aortic valve implantation in a patient with a mechanical valve prosthesis in mitral position. *Circulation: Cardiovascular Interventions*, **2008**, 1, 233	6	26

3	Genetic association analyses highlight IL6, ALPL, and NAV1 as three new susceptibility genes underlying calcific aortic valve stenosis		2
2	Usefulness of the B-Type Natriuretic Peptides in Low Ejection Fraction, Low-Flow, Low-Gradient Aortic Stenosis Results from the TOPAS Multicenter Prospective Cohort Study. *Structural Heart*,1-9	0.6	0
1	Case Report: Posterior Thoracic Window in the Presence of Pleural Effusion in Critical Care Medicine: One More Chance to Image the Aortic Valve. *Frontiers in Cardiovascular Medicine*,9,	5.4	