Romain Capoulade

List of Publications by Year
in descending order

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94 papers	4,230 citations	136740 32 h-index	114278 63 g-index
104 all docs	104 docs citations	104 times ranked	3966 citing authors

#	Article	IF	Citations
1	The Complex Nature of Discordant Severe Calcified Aortic Valve Disease Grading. Journal of the American College of Cardiology, 2013, 62, 2329-2338.	1.2	436
2	Impact of Aortic Valve Calcification, asÂMeasured by MDCT, on Survival inÂPatients WithÂAortic Stenosis. Journal of the American College of Cardiology, 2014, 64, 1202-1213.	1.2	367
3	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, 1259-1267.	1.2	295
4	Oxidized Phospholipids, Lipoprotein(a),Âand Progression of CalcificÂAortic ValveÂStenosis. Journal of the American College of Cardiology, 2015, 66, 1236-1246.	1.2	295
5	Outcomes of Patients With Asymptomatic Aortic Stenosis Followed Up in Heart Valve Clinics. JAMA Cardiology, 2018, 3, 1060.	3.0	177
6	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, 175-183.	2.3	173
7	Staging Cardiac Damage in Patients With Asymptomatic Aortic Valve Stenosis. Journal of the American College of Cardiology, 2019, 74, 550-563.	1.2	152
8	Progression of Hypertrophy and Myocardial Fibrosis in Aortic Stenosis. Circulation: Cardiovascular Imaging, 2018, 11, e007451.	1.3	139
9	Impact of Metabolic Syndrome on Progression of Aortic Stenosis. Journal of the American College of Cardiology, 2012, 60, 216-223.	1.2	103
10	A transcriptome-wide association study identifies PALMD as a susceptibility gene for calcific aortic valve stenosis. Nature Communications, 2018, 9, 988.	5.8	93
11	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, 645-653.	1.2	83
12	Replacement Myocardial Fibrosis in Patients With Mitral Valve Prolapse. Circulation, 2021, 143, 1763-1774.	1.6	81
13	Association of Mild to Moderate Aortic Valve Stenosis Progression With Higher Lipoprotein(a) and Oxidized Phospholipid Levels. JAMA Cardiology, 2018, 3, 1212.	3.0	76
14	Impact of hypertension and reninâ€“angiotensin system inhibitors in aortic stenosis. European Journal of Clinical Investigation, 2013, 43, 1262-1272.	1.7	75
15	Echocardiographic predictors of outcomes in adults with aortic stenosis. Heart, 2016, 102, 934-942.	1.2	74
16	Usefulness of Global Left Ventricular Longitudinal Strain for Risk Stratification in Low Ejection Fraction, Low-Gradient Aortic Stenosis. Circulation: Cardiovascular Imaging, 2015, 8, e002117.	1.3	73
17	Discordant Grading of AorticÂStenosisÂSeverity. JACC: Cardiovascular Imaging, 2016, 9, 797-805.	2.3	69
18	Sex-Related Differences in the Extent of Myocardial Fibrosis in Patients With Aortic Valve Stenosis. JACC: Cardiovascular Imaging, 2020, 13, 699-711.	2.3	67

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19	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.	0.5	63
20	Transvalvular Flow Rate Determines Prognostic Value of Aortic Valve Area in Aortic Stenosis. Journal of the American College of Cardiology, 2020, 75, 1758-1769.	1.2	60
21	Impact of Left Ventricular to Mitral Valve Ring Mismatch on Recurrent Ischemic Mitral Regurgitation After Ring Annuloplasty. Circulation, 2016, 134, 1247-1256.	1.6	58
22	Tricuspid Regurgitation Is Associated With Increased Risk of Mortality in Patients With Low-Flow Low-Gradient Aortic Stenosis and Reduced Ejection Fraction. JACC: Cardiovascular Interventions, 2015, 8, 588-596.	1.1	56
23	Impact of left ventricular remodelling patterns on outcomes in patients with aortic stenosis. European Heart Journal Cardiovascular Imaging, 2017, 18, 1378-1387.	0.5	56
24	Impact of Plasma Lp-PLA2 Activity onÂtheÂProgression of Aortic Stenosis. JACC: Cardiovascular Imaging, 2015, 8, 26-33.	2.3	51
25	Effect of age and aortic valve anatomy on calcification and haemodynamic severity of aortic stenosis. Heart, 2017, 103, 32-39.	1.2	46
26	Genetic Association Analyses Highlight IL6 , ALPL , and NAV1 As 3 New Susceptibility Genes Underlying Calcific Aortic Valve Stenosis. Circulation Genomic and Precision Medicine, 2019, 12, e002617.	1.6	45
27	Genetic and InÂVitro Inhibition of PCSK9 and Calcific Aortic Valve Stenosis. JACC Basic To Translational Science, 2020, 5, 649-661.	1.9	45
28	New insights into mitral valve dystrophy: a Filamin-A genotypeâ€“phenotype and outcome study. European Heart Journal, 2018, 39, 1269-1277.	1.0	44
29	Impact of Aortic Valve Calcification and Sex onÂHemodynamic Progression and Clinical Outcomes in AS. Journal of the American College of Cardiology, 2017, 69, 2096-2098.	1.2	42
30	The role of antibody responses against glycans in bioprosthetic heart valve calcification and deterioration. Nature Medicine, 2022, 28, 283-294.	15.2	40
31	Right ventricular longitudinal strain for risk stratification in low-flow, low-gradient aortic stenosis with low ejection fraction. Heart, 2016, 102, 548-554.	1.2	38
32	Prognostic value of plasma B-type natriuretic peptide levels after exercise in patients with severe asymptomatic aortic stenosis. Heart, 2014, 100, 1606-1612.	1.2	36
33	Non-Invasive Determination of Left Ventricular Workload in Patients with Aortic Stenosis Using Magnetic Resonance Imaging and Doppler Echocardiography. PLoS ONE, 2014, 9, e86793.	1.1	35
34	PCSK9 Involvement in Aortic Valve Calcification. Journal of the American College of Cardiology, 2018, 72, 3225-3227.	1.2	34
35	Discrepancies between cardiovascular magnetic resonance and Doppler echocardiography in the measurement of transvalvular gradient in aortic stenosis: the effect of flow vorticity. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 84.	1.6	33
36	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.	3.0	32

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37	Effect of bicuspid aortic valve phenotype on progression of aortic stenosis. European Heart Journal Cardiovascular Imaging, 2020, 21, 727-734.	0.5	32
38	Insulin Resistance and LVH Progression in Patients With Calcific Aortic Stenosis. JACC: Cardiovascular Imaging, 2013, 6, 165-174.	2.3	31
39	A Systematic Review of Mitral Valve Repair With Autologous Pericardial Leaflet Augmentation for Rheumatic Mitral Regurgitation. Annals of Thoracic Surgery, 2016, 102, 1400-1405.	0.7	30
40	Mitral valve repair and subvalvular intervention for secondary mitral regurgitation: a systematic review and meta-analysis of randomized controlled and propensity matched studies. Journal of Thoracic Disease, 2017, 9, S582-S594.	0.6	29
41	B-Type Natriuretic Peptide and High-Sensitivity Cardiac Troponin for RiskÂStratification in Low-Flow, Low-Gradient Aortic Stenosis. JACC: Cardiovascular Imaging, 2018, 11, 939-947.	2.3	28
42	ApoCIII-Lp(a) complexes in conjunction with Lp(a)-OxPL predict rapid progression of aortic stenosis. Heart, 2020, 106, 738-745.	1.2	28
43	Combined papillary muscle sling and ring annuloplasty for moderate-to-severe secondary mitral regurgitation. Journal of Cardiac Surgery, 2016, 31, 664-671.	0.3	27
44	Visceral Adiposity and Left Ventricular Mass and Function in Patients With Aortic Stenosis: The PROGRESSA Study. Canadian Journal of Cardiology, 2014, 30, 1080-1087.	0.8	26
45	Impact of global hemodynamic load on exercise capacity in aortic stenosis. International Journal of Cardiology, 2013, 168, 2272-2277.	0.8	25
46	Evolution and prognostic impact of low flow after transcatheter aortic valve replacement. Heart, 2015, 101, 1196-1203.	1.2	24
47	Surgical Versus Medical Therapy for Prosthetic Valve Endocarditis: AÂMeta-Analysis of 32 Studies. Annals of Thoracic Surgery, 2017, 103, 991-1004.	0.7	24
48	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.	1.2	23
49	Myocardial injury following transcatheter aortic valve implantation: insights from delayed-enhancement cardiovascular magnetic resonance. EuroIntervention, 2015, 11, 205-213.	1.4	23
50	Oral Anticoagulation Therapy and Progression of Calcific Aortic Valve Stenosis. Journal of the American College of Cardiology, 2019, 73, 1869-1871.	1.2	21
51	Multimodality imaging assessment of mitral valve anatomy in planning for mitral valve repair in secondary mitral regurgitation. Journal of Thoracic Disease, 2017, 9, S640-S660.	0.6	15
52	Circulating Levels of Matrix Gla Protein and Progression of Aortic Stenosis: A Substudy of the Aortic Stenosis Progression Observation: Measuring Effects of RosuvastatinÂ(ASTRONOMER) Trial. Canadian Journal of Cardiology, 2014, 30, 1088-1095.	0.8	14
53	Mitral Valve and Subvalvular Repair for Secondary Mitral Regurgitation. Cardiology in Review, 2018, 26, 22-28.	0.6	12
54	Non-syndromic Mitral Valve Dysplasia Mutation Changes the Force Resilience and Interaction of Human Filamin A. Structure, 2019, 27, 102-112.e4.	1.6	12

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55	Lipoprotein-associated phospholipase A2 activity, genetics and calcific aortic valve stenosis in humans. Heart, 2020, 106, 1407-1412.	1.2	12
56	Relationship Between Insulin-Like Growth Factor Binding Protein-2 and Left Ventricular Stroke Volume in Patients With Aortic Stenosis. Canadian Journal of Cardiology, 2015, 31, 1447-1454.	0.8	11
57	A Comparative Analysis of the Lipoprotein(a) and Low-Density Lipoprotein Proteomic Profiles Combining Mass Spectrometry and Mendelian Randomization. CJC Open, 2021, 3, 450-459.	0.7	11
58	Usefulness of cardiovascular magnetic resonance imaging for the evaluation of valve opening and closing kinetics in aortic stenosis. European Heart Journal Cardiovascular Imaging, 2013, 14, 819-826.	0.5	10
59	ApoB/ApoAâ€‰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, .	1.6	10
60	Durability of transcatheter aortic valve implantation: A translational review. Archives of Cardiovascular Diseases, 2020, 113, 209-221.	0.7	10
61	Impact of cardiac resynchronization therapy on mitral valve apparatus geometry and clinical outcomes in patients with secondary mitral regurgitation. Echocardiography, 2017, 34, 1561-1567.	0.3	9
62	Deleterious variants in <scp>DCHS</scp>1 are prevalent in sporadic cases of mitral valve prolapse. Molecular Genetics & Genomic Medicine, 2018, 6, 114-120.	0.6	9
63	Assessment of Aortic Valve Disease: Role of Imaging Modalities. Current Treatment Options in Cardiovascular Medicine, 2015, 17, 49.	0.4	8
64	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.	2.3	7
65	Relationship Between Proximal Aorta Morphology and Progression Rate of Aortic Stenosis. Journal of the American Society of Echocardiography, 2018, 31, 561-569.e1.	1.2	7
66	Predicting outcomes in patients with aortic stenosis using machine learning: the Aortic Stenosis Risk (ASteRisk) score. Open Heart, 2022, 9, e001990.	0.9	7
67	Autoantibodies and immune complexes to oxidation-specific epitopes and progression of aortic stenosis: Results from the ASTRONOMER trial. Atherosclerosis, 2017, 260, 1-7.	0.4	6
68	Prevalence of left ventricle non-compaction criteria in adult patients with bicuspid aortic valve versus healthy control subjects. Open Heart, 2018, 5, e000869.	0.9	5
69	Familial bicuspid aortic valve disease: should we look more closely at the valve?. Heart, 2019, 105, 584-586.	1.2	5
70	Bone Mineral Density and Progression Rate of Calcific Aortic ValveÂStenosis. Journal of the American College of Cardiology, 2020, 75, 1725-1726.	1.2	5
71	The effects of cardiac resynchronization therapy on left ventricular and mitral valve geometry and secondary mitral regurgitation in patients with left bundle branch block. Echocardiography, 2019, 36, 1450-1458.	0.3	4
72	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.	1.2	4

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73	Circulating Lp-PLA2 is associated with high valvuloarterial impedance and low arterial compliance in patients with aortic valve bioprostheses. Clinica Chimica Acta, 2016, 455, 20-25.	0.5	3
74	Sex-Specific Cell Types and Molecular Pathways Indicate Fibro-Calcific Aortic Valve Stenosis. Frontiers in Immunology, 2022, 13, 747714.	2.2	3
75	Effects of cardiac resynchronization therapy after inferior myocardial infarction on secondary mitral regurgitation and mitral valve geometry. PACE - Pacing and Clinical Electrophysiology, 2018, 41, 114-121.	0.5	2
76	Critical Structural Defects Explain Filamin A Mutations Causing Mitral Valve Dysplasia. Biophysical Journal, 2019, 117, 1467-1475.	0.2	2
77	Heritability of aortic valve stenosis and bicuspid enrichment in families with aortic valve stenosis. International Journal of Cardiology, 2022, 359, 91-98.	0.8	2
78	Implication of Lipids in Calcified Aortic Valve Pathogenesis: Why Did Statins Fail?. Journal of Clinical Medicine, 2022, 11, 3331.	1.0	2
79	Therapy for secondary mitral regurgitation: time to â€˜cut the chordâ€™?. Heart, 2015, 101, 996-997.	1.2	1
80	Editorial commentary: Lp(a) and calcific aortic valve stenosis: Direct LPA targeting or PCSK9-Lowering therapy?. Trends in Cardiovascular Medicine, 2021, 31, 312-314.	2.3	1
81	Left ventricular asymmetric remodeling and subclinical left ventricular dysfunction in patients with calcific aortic valve stenosis â€“ Results from a subanalysis of the PROGRESSA study. International Journal of Cardiology, 2021, 332, 148-156.	0.8	1
82	Sex Differences in the Progression of Aortic Valve Calcification and Clinical Outcomes - The PROGRESSA Study. JACC: Cardiovascular Imaging, 2022, , .	2.3	1
83	Reply. Journal of the American College of Cardiology, 2013, 61, 1833-1834.	1.2	0
84	Aortic Valve Calcification Measured by Computed Tomography Predicts Outcome in Aortic Stenosis. Canadian Journal of Cardiology, 2013, 29, S352-S353.	0.8	0
85	Normalized left ventricular workload using phase-contrast magnetic resonance imaging in patients with aortic stenosis. , 2014, 2014, 6430-3.		0
86	RELATIONSHIP BETWEEN AORTIC VALVE CALCIFICATION AND HEMODYNAMIC PROGRESSION OF AORTIC STENOSIS: RESULTS FROM AN INTERNATIONAL REGISTRY STUDY. Canadian Journal of Cardiology, 2016, 32, S250-S251.	0.8	0
87	Response by Capoulade et al to Letter Regarding Article, â€œImpact of Left Ventricular to Mitral Valve Ring Mismatch on Recurrent Ischemic Mitral Regurgitation After Ring Annuloplastyâ€. Circulation, 2017, 135, e785-e786.	1.6	0
88	IMPACT OF AORTIC VALVE CALCIFICATION AND SEX ON HEMODYNAMIC PROGRESSION AND CLINICAL OUTCOMES IN AORTIC STENOSIS. Journal of the American College of Cardiology, 2017, 69, 1929.	1.2	0
89	RELATIONSHIP BETWEEN PROXIMAL AORTA MORPHOLOGY AND PROGRESSION RATE OF AORTIC STENOSIS. Journal of the American College of Cardiology, 2017, 69, 1930.	1.2	0
90	Mitral Valve Disease. , 2019, , 279-293.e1.		0

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91	Automatic Registration of Correlative Microscopies with Error Assessment and Applications for the Optimization of Multimodal Acquisitions.. Microscopy and Microanalysis, 2019, 25, 1020-1021.	0.2	0
92	Variation In Lpa And Calcific Aortic Valve Stenosis In Patients Undergoing Cardiac Surgery And Familial Risk Of Aortic Valve Microcalcification. Atherosclerosis, 2019, 287, e16-e17.	0.4	0
93	TIMING AND DETERMINANTS OF THE DETERIORATION OF FUNCTIONAL STATUS IN PATIENTS WITH AORTIC STENOSIS. Canadian Journal of Cardiology, 2021, 37, S85.	0.8	0
94	Determinants of Aortic Stenosis Progression in Bicuspid and Tricuspid Aortic Valves. , 2022, , .		0