Niels van Royen

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9669160/publications.pdf

Version: 2024-02-01

154 papers	4,900 citations	109321 35 h-index	118850 62 g-index
155 all docs	155 docs citations	155 times ranked	5765 citing authors

#	Article	IF	Citations
1	Optical coherence tomography and coronary revascularization: from indication to procedural optimization. Trends in Cardiovascular Medicine, 2023, 33, 92-106.	4.9	9
2	Left ventricular function, strain, and infarct characteristics in patients with transient ST-segment elevation myocardial infarction compared to ST-segment and non-ST-segment elevation myocardial infarctions. European Heart Journal Cardiovascular Imaging, 2022, 23, 836-845.	1.2	3
3	Anti-Galectin-2 Antibody Treatment Reduces Atherosclerotic Plaque Size and Alters Macrophage Polarity. Thrombosis and Haemostasis, 2022, 122, 1047-1057.	3.4	7
4	Acetylcholine Rechallenge. JACC: Cardiovascular Interventions, 2022, 15, 65-75.	2.9	30
5	Extremity Dysfunction After Largeâ€Bore Radial and Femoral Arterial Access. Journal of the American Heart Association, 2022, 11, e023691.	3.7	1
6	The influence of timing of coronary angiography on acute kidney injury in out-of-hospital cardiac arrest patients: a retrospective cohort study. Annals of Intensive Care, 2022, 12, 12.	4.6	1
7	Phasic flow patterns of right versus left coronary arteries in patients undergoing clinical physiological assessment. EuroIntervention, 2022, 17, 1260-1270.	3.2	1
8	Cost Analysis From a Randomized Comparison of Immediate Versus Delayed Angiography After Cardiac Arrest. Journal of the American Heart Association, 2022, 11, e022238.	3.7	0
9	Shortâ€term exerciseâ€induced protection of cardiovascular function and health: why and how fast does the heart benefit from exercise?. Journal of Physiology, 2022, 600, 1339-1355.	2.9	13
10	Implementation of the ESC 0Âh/1h algorithm and the HEART score in the emergency department: A prospective cohort study. IJC Heart and Vasculature, 2022, 39, 100988.	1.1	1
11	Efficacy of Diltiazem to Improve Coronary Vasomotor Dysfunction inÂANOCA. JACC: Cardiovascular Imaging, 2022, 15, 1473-1484.	5.3	39
12	Pilot study on VF-waveform based algorithms for early detection of acute myocardial infarction during out-of-hospital cardiac arrest. Resuscitation, 2022, 174, 62-67.	3.0	3
13	Features of atherosclerosis in patients with angina and no obstructive coronary artery disease. EuroIntervention, 2022, 18, e397-e404.	3.2	4
14	Differential Prognostic Value of Revascularization for Coronary Stenosis With Intermediate FFR by Coronary FlowÂReserve. JACC: Cardiovascular Interventions, 2022, 15, 1033-1043.	2.9	3
15	Combined Assessment of FFR and CFRÂfor Decision Making in CoronaryÂRevascularization. JACC: Cardiovascular Interventions, 2022, 15, 1047-1056.	2.9	10
16	Comparison of Doppler Flow Velocity and Thermodilution Derived Indexes of Coronary Physiology. JACC: Cardiovascular Interventions, 2022, 15, 1060-1070.	2.9	38
17	Gradual Versus Abrupt Reperfusion During Primary Percutaneous Coronary Interventions in STâ€Segmentâ€“Elevation Myocardial Infarction (GUARD). Journal of the American Heart Association, 2022, 11, e024172.	3.7	5
18	Long-term Effect of Face-to-Face vs Virtual Reality Cardiopulmonary Resuscitation (CPR) Training on Willingness to Perform CPR, Retention of Knowledge, and Dissemination of CPR Awareness. JAMA Network Open, 2022, 5, e2212964.	5.9	6

#	Article	IF	Citations
19	Innate immune cells in the pathophysiology of calcific aortic valve disease: lessons to be learned from atherosclerotic cardiovascular disease?. Basic Research in Cardiology, 2022, 117, 28.	5.9	9
20	Ischaemic electrocardiogram patterns and its association with survival in out-of-hospital cardiac arrest patients without ST-segment elevation myocardial infarction: a COACT trialsâ€™ post-hoc subgroup analysis. European Heart Journal: Acute Cardiovascular Care, 2022, 11, 535-543.	1.0	2
21	Geriatric assessment in the prediction of delirium and long-term survival after transcatheter aortic valve implantation. Journal of Thoracic and Cardiovascular Surgery, 2021, 161, 2095-2102.e3.	0.8	17
22	Transcatheter aortic valve replacement during the COVIDâ€19 pandemicâ€”A Dutch singleâ€center analysis. Journal of Cardiac Surgery, 2021, 36, 48-55.	0.7	8
23	Sex differences in patients with out-of-hospital cardiac arrest without ST-segment elevation: A COACT trial substudy. Resuscitation, 2021, 158, 14-22.	3.0	5
24	Absolute Coronary Blood Flow Measured by Continuous Thermodilution in Patients With Ischemia and Nonobstructive Disease. Journal of the American College of Cardiology, 2021, 77, 728-741.	2.8	37
25	Soluble Neprilysin and Corin Concentrations in Relation to Clinical Outcome in Chronic HeartÂFailure. JACC: Heart Failure, 2021, 9, 85-95.	4.1	12
26	The effect of immediate coronary angiography after cardiac arrest without ST-segment elevation on left ventricular function. A sub-study of the COACT randomised trial. Resuscitation, 2021, 164, 93-100.	3.0	9
27	Quantification of Absolute Myocardial Flow and Resistance by Continuous Thermodilution in Patients with Ischemia and Nonobstructive Coronary Artery Disease (INOCA). Journal of Visualized Experiments, 2021, , .	0.3	1
28	Coronary angiography findings in patients with shock-resistant ventricular fibrillation cardiac arrest. Resuscitation, 2021, 164, 54-61.	3.0	9
29	Coronary Collateral Flow Index Is Correlated With the Palmar Collateral Flow Index. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, 1830-1836.	2.4	1
30	Electrocardiographic recording direction impacts ventricular fibrillation waveform measurements: A potential pitfall for VF-waveform guided defibrillation protocols. Resuscitation Plus, 2021, 6, 100114.	1.7	0
31	Vasomotor dysfunction in patients with angina and nonobstructive coronary artery disease is dominated by vasospasm. International Journal of Cardiology, 2021, 333, 14-20.	1.7	28
32	Transcatheter Aortic Valve Replacement for Degenerated Transcatheter Aortic Valves: The TRANSIT International Project. Circulation: Cardiovascular Interventions, 2021, 14, e010440.	3.9	13
33	Perilipin 2 â€” another piece in the big jigsaw puzzle of coronary no reflow. European Heart Journal: Acute Cardiovascular Care, 2021, 10, 643-644.	1.0	1
34	Randomized Comparison Between RadialÂand Femoral Large-Bore AccessÂfor Complex Percutaneous Coronary Intervention. JACC: Cardiovascular Interventions, 2021, 14, 1293-1303.	2.9	35
35	Identification of anatomic risk factors for acute coronary events by optical coherence tomography in patients with myocardial infarction and residual nonflow limiting lesions: rationale and design of the PECTUS-obs study. BMJ Open, 2021, 11, e048994.	1.9	5
36	Transient ST-elevation myocardial infarction versus persistent ST-elevation myocardial infarction. An appraisal of patient characteristics and functional outcome. International Journal of Cardiology, 2021, 336, 22-28.	1.7	4

#	Article	IF	Citations
37	Targeted Temperature Management in Out-of-Hospital Cardiac Arrest With Shockable Rhythm. Critical Care Medicine, 2021, Publish Ahead of Print, .	0.9	1
38	Cardiac MRI to Visualize Myocardial Damage after ST-Segment Elevation Myocardial Infarction: A Review of Its Histologic Validation. Radiology, 2021, 301, 4-18.	7.3	29
39	Aortic Regurgitation Index Ratio Is a Strong Predictor of 1-Year Mortality After Transcatheter Aortic Valve Implantation Using Self-Expanding Devices. Seminars in Thoracic and Cardiovascular Surgery, 2021, 33, 923-930.	0.6	6
40	Sex Differences in Coronary Function Test Results in Patient With Angina and Nonobstructive Disease. Frontiers in Cardiovascular Medicine, 2021, 8, 750071.	2.4	15
41	Relation Between Coronary Tortuosity and Vasomotor Dysfunction in Patients Without Obstructed Coronaries?. Frontiers in Cardiovascular Medicine, 2021, 8, 804731.	2.4	2
42	Early intravenous beta-blockers in patients undergoing primary percutaneous coronary intervention for ST-segment elevation myocardial infarction: A patient-pooled meta-analysis of randomized clinical trials. European Heart Journal: Acute Cardiovascular Care, 2020, 9, 469-477.	1.0	19
43	Cardiac Magnetic Resonance for Evaluating Nonculprit Lesions After Myocardial Infarction. JACC: Cardiovascular Imaging, 2020, 13, 715-728.	5.3	13
44	Adverse Plaque Characteristics Relate More Strongly With Hyperemic Fractional Flow Reserve and Instantaneous Wave-Free Ratio Than With Resting Instantaneous Wave-Free Ratio. JACC: Cardiovascular Imaging, 2020, 13, 746-756.	5.3	27
45	Downstream Influence of Coronary Stenoses on Microcirculatory Remodeling. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 230-238.	2.4	7
46	Pathophysiology and diagnosis of coronary microvascular dysfunction in ST-elevation myocardial infarction. Cardiovascular Research, 2020, 116, 787-805.	3.8	119
47	Diagnostic performance of the basic and advanced life support termination of resuscitation rules: A systematic review and diagnostic meta-analysis. Resuscitation, 2020, 148, 3-13.	3.0	22
48	Effect of Face-to-Face vs Virtual Reality Training on Cardiopulmonary Resuscitation Quality. JAMA Cardiology, 2020, 5, 328.	6.1	66
49	Meta-Analysis Comparing Cardiac Arrest Outcomes Before and After Resuscitation Guideline Updates. American Journal of Cardiology, 2020, 125, 618-629.	1.6	13
50	Validation of the all-comers design: Results of the TARGET-AC substudy. American Heart Journal, 2020, 221, 148-154.	2.7	0
51	Computerized Analysis of the Ventricular Fibrillation Waveform Allows Identification of Myocardial Infarction: A Proofâ€ofâ€Concept Study for Smart Defibrillator Applications in Cardiac Arrest. Journal of the American Heart Association, 2020, 9, e016727.	3.7	7
52	Complex Large-Bore Radial percutaneous coronary intervention: rationale of the COLOR trial study protocol. BMJ Open, 2020, 10, e038042.	1.9	6
53	Delirium After TAVR. JACC: Cardiovascular Interventions, 2020, 13, 2453-2466.	2.9	11
54	Coronary Angiography After Cardiac Arrest Without ST Segment Elevation. JAMA Cardiology, 2020, 5, 1358.	6.1	65

#	Article	IF	Citations
55	Agreement between nonculprit stenosis follow-up iFR and FFR after STEMI (iSTEMI substudy). BMC Research Notes, 2020, 13, 410.	1.4	4
56	Pre-Emptive OCT-Guided Angioplasty of Vulnerable Intermediate Coronary Lesions: Results from the Prematurely Halted PECTUS-Trial. Journal of Interventional Cardiology, 2020, 2020, 1-8.	1.2	6
57	Data on sex differences in one-year outcomes of out-of-hospital cardiac arrest patients without ST-segment elevation. Data in Brief, 2020, 33, 106521.	1.0	0
58	Reply to Comment on: Delirium after Transcatheter Aortic Valve Implantation Under General Anesthesia. Journal of the American Geriatrics Society, 2020, 68, 1883-1884.	2.6	0
59	Maleâ€"female differences in quality of life and coping style in patients with Marfan syndrome and hereditary thoracic aortic diseases. Journal of Genetic Counseling, 2020, 29, 1259-1269.	1.6	17
60	Instantaneous wave-free ratio cutoff values for nonculprit stenosis classification in patients with ST-segment elevation myocardial infarction (an iSTEMI substudy). Coronary Artery Disease, 2020, 31, 411-416.	0.7	1
61	Acute rule-out of nonâ€"ST-segment elevation acute coronary syndrome in the (pre)hospital setting by HEART score assessment and a single point-of-care troponin: rationale and design of the ARTICA randomised trial. BMJ Open, 2020, 10, e034403.	1.9	28
62	Evaluation and Management of Nonculprit Lesions in STEMI. JACC: Cardiovascular Interventions, 2020, 13, 1145-1154.	2.9	33
63	Reprogramming of bone marrow myeloid progenitor cells in patients with severe coronary artery disease. ELife, 2020, 9, .	6.0	23
64	Beta-blocker effect on ST-segment: a prespecified analysis of the EARLY-BAMI randomised trial. Open Heart, 2020, 7, .	2.3	0
65	Comparison of Major Adverse Cardiac Events Between Instantaneous Wave-Free Ratio and Fractional Flow Reserveâ€"Guided Strategy in Patients With or Without Type 2 Diabetes. JAMA Cardiology, 2019, 4, 857.	6.1	25
66	Delirium After Transcatheter Aortic Valve Implantation Under General Anesthesia: Incidence, Predictors, and Relation to Longâ€Term Survival. Journal of the American Geriatrics Society, 2019, 67, 2325-2330.	2.6	30
67	Temporal Changes in Coronary Hyperemic and Resting Hemodynamic Indices in Nonculprit Vessels of Patients With ST-Segment Elevation Myocardial Infarction. JAMA Cardiology, 2019, 4, 736.	6.1	75
68	Sex Differences in Instantaneous Wave-Free Ratio or Fractional Flow Reserveâ€"Guided Revascularization Strategy. JACC: Cardiovascular Interventions, 2019, 12, 2035-2046.	2.9	26
69	Progressive Pulmonary Artery Dilatation is Associated with Type B Aortic Dissection in Patients with Marfan Syndrome. Journal of Clinical Medicine, 2019, 8, 1848.	2.4	4
70	1-Year Outcomes of Delayed Versus Immediate Intervention in Patients With Transient ST-Segment Elevation Myocardial Infarction. JACC: Cardiovascular Interventions, 2019, 12, 2272-2282.	2.9	16
71	Artificial Intelligence for Aortic Pressure Waveform Analysis During CoronaryÂAngiography. JACC: Cardiovascular Interventions, 2019, 12, 2093-2101.	2.9	24
72	Hand Sensibility after Transradial Arterial Access: An Observational Study in Patients with and without Radial Artery Occlusion. Journal of Vascular and Interventional Radiology, 2019, 30, 1832-1839.	0.5	4

#	Article	IF	Citations
73	Clinical Events After Deferral of LADÂRevascularization Following PhysiologicalÂCoronaryÂAssessment. Journal of the American College of Cardiology, 2019, 73, 444-453.	2.8	35
74	ST-resolution and spontaneous reperfusion in patients with transient ST-segment elevation myocardial infarction. European Heart Journal, 2019, 40, 2465-2465.	2.2	2
75	Continuous thermodilution to assess absolute flow and microvascular resistance: validation in humans using [15O]H2O positron emission tomography. European Heart Journal, 2019, 40, 2350-2359.	2.2	52
76	Myocardial Blood Flow and Coronary Flow Reserve During 3 Years Following Bioresorbable Vascular Scaffold Versus Metallic Drug-Eluting Stent Implantation. JACC: Cardiovascular Interventions, 2019, 12, 967-979.	2.9	7
77	Coronary Angiography after Cardiac Arrest without ST-Segment Elevation. New England Journal of Medicine, 2019, 380, 1397-1407.	27.0	373
78	Diastolic-systolic velocity ratio to detect coronary stenoses under physiological resting conditions: a mechanistic study. Open Heart, 2019, 6, e000968.	2.3	2
79	ACRA Perfusion Study. Circulation: Cardiovascular Interventions, 2019, 12, e007641.	3.9	4
80	Exercise-induced Changes in Soluble ST2 Concentrations in Marathon Runners. Medicine and Science in Sports and Exercise, 2019, 51, 405-410.	0.4	11
81	Determining the Predominant Lesion in Patients With Severe Aortic Stenosis and Coronary Stenoses. Circulation: Cardiovascular Interventions, 2019, 12, e008263.	3.9	20
82	Diagnostic value of longitudinal flow gradient for the presence of haemodynamically significant coronary artery disease. European Heart Journal Cardiovascular Imaging, 2019, 20, 21-30.	1.2	12
83	Elevated monocyte-specific type I interferon signalling correlates positively with cardiac healing in myocardial infarct patients but interferon alpha application deteriorates myocardial healing in rats. Basic Research in Cardiology, 2019, 114, 1.	5.9	44
84	The coronary circulation in acute myocardial ischaemia/reperfusion injury: a target for cardioprotection. Cardiovascular Research, 2019, 115, 1143-1155.	3.8	151
85	Feasibility and Outcomes of Transcatheter Aortic Valve Implantation Using the Left Axillary Artery as Primary Access Site. Annals of Thoracic Surgery, 2019, 107, 546-552.	1.3	14
86	Timing of revascularization in patients with transient ST-segment elevation myocardial infarction: a randomized clinical trial. European Heart Journal, 2019, 40, 283-291.	2.2	38
87	Evaluation of Microvascular Injury in Revascularized Patients With ST-Segmentâ€“Elevation Myocardial Infarction Treated With Ticagrelor Versus Prasugrel. Circulation, 2019, 139, 636-646.	1.6	40
88	Therapeutic application of contrast ultrasound in ST elevation myocardial infarction: Role in coronary thrombosis and microvascular obstruction. European Heart Journal: Acute Cardiovascular Care, 2019, 8, 45-53.	1.0	11
89	Diagnostic Value of Transluminal Attenuation Gradient for the Presence of Ischemia as Defined by Fractional Flow Reserve and Quantitative Positron Emission Tomography. JACC: Cardiovascular Imaging, 2019, 12, 323-333.	5.3	19
90	Impact of sheath size and hemostasis time on radial artery patency after transradial coronary angiography and intervention in Japanese and nonâ€Japanese patients: A substudy from RAP and BEAT (Radial Artery Patency and Bleeding, Efficacy, Adverse evenT) randomized multicenter trial. Catheterization and Cardiovascular Interventions, 2018, 92, 844-851.	1.7	39

#	Article	IF	Citations
91	Long-Term Prognostic Implications ofÂPrevious Silent Myocardial Infarction inÂPatients Presenting With AcuteÂMyocardial Infarction. JACC: Cardiovascular Imaging, 2018, 11, 1773-1781.	5.3	41
92	Effect of Plaque Burden and MorphologyÂon Myocardial Blood Flow andÂFractional FlowÂReserve. Journal of the American College of Cardiology, 2018, 71, 499-509.	2.8	133
93	Coronary autoregulation and assessment of stenosis severity without pharmacological vasodilation. European Heart Journal, 2018, 39, 4062-4071.	2.2	30
94	Influence of Microcirculatory Dysfunction on Angiography-Based Functional Assessment of Coronary Stenoses. JACC: Cardiovascular Interventions, 2018, 11, 741-753.	2.9	90
95	Impact of Revascularization on Absolute Myocardial Blood Flow as Assessed by Serial [¹⁵ O]H ₂ O Positron Emission Tomography Imaging. Circulation: Cardiovascular Imaging, 2018, 11, e007417.	2.6	41
96	Hyperaemic microvascular resistance predicts clinical outcome and microvascular injury after myocardial infarction. Heart, 2018, 104, 127-134.	2.9	35
97	Doppler Versus Thermodilution-Derived Coronary Microvascular Resistance to Predict Coronary Microvascular Dysfunction in Patients With Acute Myocardial Infarction or Stable Angina Pectoris. American Journal of Cardiology, 2018, 121, 1-8.	1.6	70
98	Fractional flow reserve, instantaneous wave-free ratio, and resting Pd/Pa compared with [15O]H2O positron emission tomography myocardial perfusion imaging: a PACIFIC trial sub-study. European Heart Journal, 2018, 39, 4072-4081.	2.2	28
99	Doppler Flow Velocity and Thermodilution to Assess CoronaryÂFlowÂReserve. JACC: Cardiovascular Interventions, 2018, 11, 2044-2054.	2.9	94
100	Six months versus 12 months dual antiplatelet therapy after drug-eluting stent implantation in ST-elevation myocardial infarction (DAPT-STEMI): randomised, multicentre, non-inferiority trial. BMJ: British Medical Journal, 2018, 363, k3793.	2.3	125
101	Letter by Lemkes et al Regarding Article, â€œEmergency Coronary Angiography After Out-of-Hospital Cardiac Arrest: Is It Essential or Futile?â€• Circulation: Cardiovascular Interventions, 2018, 11, e007118.	3.9	0
102	Coronary Microvascular Injury in Reperfused Acute Myocardial Infarction: A View From an Integrative Perspective. Journal of the American Heart Association, 2018, 7, e009949.	3.7	61
103	Coronary Physiology in the Nonculprit Vessel After Acute Myocardial Infarction. JACC: Cardiovascular Interventions, 2018, 11, 1859-1861.	2.9	0
104	Chronic radial artery occlusion does not cause exercise induced hand ischemia. Journal of Interventional Cardiology, 2018, 31, 949-956.	1.2	11
105	Strain analysis is superior to wall thickening in discriminating between infarcted myocardium with and without microvascular obstruction. European Radiology, 2018, 28, 5171-5181.	4.5	20
106	Safety of the Deferral of Coronary Revascularization on the Basis of Instantaneous Wave-Free Ratio and Fractional Flow Reserve Measurements in Stable Coronary Artery Disease and Acute Coronary Syndromes. JACC: Cardiovascular Interventions, 2018, 11, 1437-1449.	2.9	111
107	Procedural Success and Clinical Outcome of the Portico Transcatheter Aortic Valve Using the Left Subclavian Artery as Primary Access. JACC: Cardiovascular Interventions, 2018, 11, 1311-1312.	2.9	10
108	In vivo assessment of myocardial viability after acute myocardial infarction: A head-to-head comparison of the perfusable tissue index by PET and delayed contrast-enhanced CMR. Journal of Nuclear Cardiology, 2017, 24, 657-667.	2.1	13

#	Article	IF	Citations
109	Early Detection and Treatment of the Vulnerable Coronary Plaque. Circulation: Cardiovascular Imaging, 2017, 10, .	2.6	60
110	Impact of right ventricular side branch occlusion during percutaneous coronary intervention of chronic total occlusions on right ventricular function. Cardiovascular Revascularization Medicine, 2017, 18, 405-410.	0.8	0
111	Body Mass Index Is Associated With Microvascular Endothelial Dysfunction in Patients With Treated Metabolic Risk Factors and Suspected Coronary Artery Disease. Journal of the American Heart Association, 2017, 6, .	3.7	44
112	Predictors of Intramyocardial Hemorrhage After Reperfused STâ€Segment Elevation Myocardial Infarction. Journal of the American Heart Association, 2017, 6, .	3.7	26
113	Comparison of Coronary CT Angiography, SPECT, PET, and Hybrid Imaging for Diagnosis of Ischemic Heart Disease Determined by Fractional Flow Reserve. JAMA Cardiology, 2017, 2, 1100.	6.1	324
114	Nonculprit Stenosis Evaluation Using Instantaneous Wave-Free Ratio in PatientsÂWith ST-Segment Elevation Myocardial Infarction. JACC: Cardiovascular Interventions, 2017, 10, 2528-2535.	2.9	55
115	The ACRA Anatomy Study (Assessment of Disability After Coronary Procedures Using Radial Access). Circulation: Cardiovascular Interventions, 2017, 10, .	3.9	43
116	Inflammatory cell content of coronary thrombi is dependent on thrombus age in patients with ST-elevation myocardial infarction. Journal of Cardiology, 2017, 69, 394-400.	1.9	22
117	Prevalence of ischaemia in patients with a chronic total occlusion and preserved left ventricular ejection fraction. European Heart Journal Cardiovascular Imaging, 2017, 18, 1025-1033.	1.2	30
118	Changes in remote myocardial tissue after acute myocardial infarction and its relation to cardiac remodeling: A CMR T1 mapping study. PLoS ONE, 2017, 12, e0180115.	2.5	35
119	Coronary angiography and percutaneous coronary intervention after out-of-hospital cardiac arrest: major leaps towards improved survival?. Journal of Thoracic Disease, 2017, 9, 5-7.	1.4	1
120	Non-invasive assessment of the collateral circulation in the hand: validation of the Nexfin system and relation to clinical outcome after transradial catheterisation. EuroIntervention, 2017, 12, 1773-1781.	3.2	6
121	Invasive minimal Microvascular Resistance Is a New Index to Assess Microcirculatory Function Independent of Obstructive Coronary Artery Disease. Journal of the American Heart Association, 2016, 5, .	3.7	21
122	Early Intravenous Beta-Blockers in PatientsÂWith ST-Segment Elevation Myocardial Infarction Before Primary Percutaneous Coronary Intervention. Journal of the American College of Cardiology, 2016, 67, 2705-2715.	2.8	144
123	CD40 in coronary artery disease: a matter of macrophages?. Basic Research in Cardiology, 2016, 111, 38.	5.9	37
124	Reducing Microvascular Dysfunction in Revascularized Patients with ST-Elevation Myocardial Infarction by Off-Target Properties of Ticagrelor versus Prasugrel. Rationale and Design of the REDUCE-MVI Study. Journal of Cardiovascular Translational Research, 2016, 9, 249-256.	2.4	15
125	No benefit of additional treatment with exenatide in patients with an acute myocardial infarction. International Journal of Cardiology, 2016, 220, 809-814.	1.7	35
126	Coronary angiography after cardiac arrest: Rationale and design of the COACT trial. American Heart Journal, 2016, 180, 39-45.	2.7	28

#	Article	IF	Citations
127	30â€...Head-to-Head Comparison of Two Novel Indices of Microcirculatory Resistance at Predicting Microvascular Dysfunction. Use of the Best Index to Explore the Effect of Cold Air Inhalation During Exercise in Coronary Artery Disease Patients. Heart, 2016, 102, A20-A21.	2.9	0
128	The role of ADAMTS13 in acute myocardial infarction: cause or consequence?. Cardiovascular Research, 2016, 111, 194-203.	3.8	24
129	Fluoroscopy Assisted Scoring of Myocardial Hypoperfusion (FLASH) ratio as a novel predictor of mortality after primary PCI in STEMI patients. International Journal of Cardiology, 2016, 202, 639-645.	1.7	3
130	Unexpected High Incidence of Coronary Vasoconstriction in the Reduction of Microvascular Injury Using Sonolysis (ROMIUS) Trial. Ultrasound in Medicine and Biology, 2016, 42, 1919-1928.	1.5	19
131	Kinetics of coagulation in ST-elevation myocardial infarction following successful primary percutaneous coronary intervention. Thrombosis Research, 2016, 137, 64-71.	1.7	8
132	Changes in Coronary Blood Flow AfterÂAcute Myocardial Infarction. JACC: Cardiovascular Interventions, 2016, 9, 602-613.	2.9	50
133	The emerging role of galectins in cardiovascular disease. Vascular Pharmacology, 2016, 81, 31-41.	2.1	34
134	Endothelial dysfunction and the occurrence of radial artery spasm during transradial coronary procedures: the ACRA-Spasm study. EuroIntervention, 2016, 12, 1263-1270.	3.2	12
135	104â€...Changes in Resting Microvascular Resistance Explain Why Resting Flow is Preserved Despite Increasing Stenosis Severity: The Results of the Largest International Combined Coronary Pressure and Flow Study. Heart, 2015, 101, A59.2-A60.	2.9	0
136	Doppler-Derived Intracoronary Physiology Indices Predict the Occurrence of Microvascular Injury and Microvascular Perfusion Deficits After Angiographically Successful Primary Percutaneous Coronary Intervention. Circulation: Cardiovascular Interventions, 2015, 8, e001786.	3.9	55
137	T2 versus T2*: competitive or complementary sequences?. Nature Reviews Cardiology, 2015, 12, 198-198.	13.7	0
138	Interferon-Beta, a Decisive Factor in Angiogenesis and Arteriogenesis. Journal of Interferon and Cytokine Research, 2015, 35, 411-420.	1.2	20
139	A case of multiple coronary atresias: a rarity even within the family of coronary anomalies:. European Heart Journal, 2015, 36, 1936-1936.	2.2	2
140	Relative Flow Reserve Derived From Quantitative Perfusion Imaging May Not Outperform Stress Myocardial Blood Flow for Identification of Hemodynamically Significant Coronary Artery Disease. Circulation: Cardiovascular Imaging, 2015, 8, .	2.6	64
141	MAb therapy against the IFN-Î±/Î² receptor subunit 1 stimulates arteriogenesis in a murine hindlimb ischaemia model without enhancing atherosclerotic burden. Cardiovascular Research, 2015, 107, 255-266.	3.8	18
142	Value of Hybrid Imaging with PET/CT to Guide Percutaneous Revascularization of Chronic Total Coronary Occlusion. Current Cardiovascular Imaging Reports, 2015, 8, 26.	0.6	16
143	Coronary vasomotor function in infarcted and remote myocardium after primary percutaneous coronary intervention. Heart, 2015, 101, 1577-1583.	2.9	16
144	The Effect of Transradial Coronary Catheterization on Upper Limb Function. JACC: Cardiovascular Interventions, 2015, 8, 515-523.	2.9	29

#	Article	IF	Citations
145	Intramyocardial haemorrhage after acute myocardial infarction. Nature Reviews Cardiology, 2015, 12, 156-167.	13.7	120
146	Circulating MicroRNAs Characterizing Patients with Insufficient Coronary Collateral Artery Function. PLoS ONE, 2015, 10, e0137035.	2.5	21
147	Cellular and Pharmacological Targets to Induce Coronary Arteriogenesis. Current Cardiology Reviews, 2014, 10, 29-37.	1.5	13
148	Systemic toll-like receptor and interleukin-18 pathway activation in patients with acute ST elevation myocardial infarction. Journal of Molecular and Cellular Cardiology, 2014, 67, 94-102.	1.9	23
149	Additional Value of Transluminal Attenuation Gradient in CT Angiography to Predict Hemodynamic Significance of Coronary Artery Stenosis. JACC: Cardiovascular Imaging, 2014, 7, 374-386.	5.3	73
150	A Brief Etymology of the Collateral Circulation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 1854-1859.	2.4	129
151	Impact of anatomical and functional severity of coronary atherosclerotic plaques on the transmural perfusion gradient: a [15O]H2O PET study. European Heart Journal, 2014, 35, 2094-2105.	2.2	66
152	Magnetic resonance imaging-defined areas of microvascular obstruction after acute myocardial infarction represent microvascular destruction and haemorrhage. European Heart Journal, 2013, 34, 2346-2353.	2.2	172
153	Galectin-2 expression is dependent on the rs7291467 polymorphism and acts as an inhibitor of arteriogenesis. European Heart Journal, 2012, 33, 1076-1084.	2.2	44
154	The coronary collateral circulation: Genetic and environmental determinants in experimental models and humans. Journal of Molecular and Cellular Cardiology, 2012, 52, 897-904.	1.9	42