Rajesh K Kharbanda

List of Publications by Year
in descending order

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94	7,047	101384	58464
papers	citations	36 h-index	82 g-index

98	98	98	7637
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Remote ischaemic conditioning before hospital admission, as a complement to angioplasty, and effect on myocardial salvage in patients with acute myocardial infarction: a randomised trial. Lancet, The, 2010, 375, 727-734.	6.3	885
2	Use of the Instantaneous Wave-free Ratio or Fractional Flow Reserve in PCI. New England Journal of Medicine, 2017, 376, 1824-1834.	13.9	742
3	Randomized Controlled Trial of the Effects of Remote Ischemic Preconditioning on Children Undergoing Cardiac Surgery. Journal of the American College of Cardiology, 2006, 47, 2277-2282.	1.2	499
4	Remote Ischemic Preconditioning Reduces Myocardial and Renal Injury After Elective Abdominal Aortic Aneurysm Repair. Circulation, 2007, 116, I98-105.	1.6	363
5	Heterogenous Nature of Flow-Mediated Dilatation in Human Conduit Arteries In Vivo. Circulation Research, 2001, 88, 145-151.	2.0	333
6	Ischemic Preconditioning Prevents Endothelial Injury and Systemic Neutrophil Activation During Ischemia-Reperfusion in Humans In Vivo. Circulation, 2001, 103, 1624-1630.	1.6	296
7	Ischaemic conditioning and targeting reperfusion injury: a 30Âyear voyage of discovery. Basic Research in Cardiology, 2016, 111, 70.	2.5	257
8	Cardiovascular magnetic resonance by non contrast T1-mapping allows assessment of severity of injury in acute myocardial infarction. Journal of Cardiovascular Magnetic Resonance, 2012, 14, 15.	1.6	236
9	Translation of remote ischaemic preconditioning into clinical practice. Lancet, The, 2009, 374, 1557-1565.	6.3	223
10	Effect of remote ischaemic conditioning on clinical outcomes in patients with acute myocardial infarction (CONDI-2/ERIC-PPCI): a single-blind randomised controlled trial. Lancet, The, 2019, 394, 1415-1424.	6.3	223
11	Dynamic Changes of Edema and Late Gadolinium Enhancement After Acute Myocardial Infarction and Their Relationship to Functional Recovery and Salvage Index. Circulation: Cardiovascular Imaging, 2011, 4, 228-236.	1.3	214
12	Prevention of Inflammation-Induced Endothelial Dysfunction. Circulation, 2002, 105, 2600-2604.	1.6	157
13	Impact of Microvascular Obstruction on the Assessment of Coronary Flow Reserve, Index of Microcirculatory Resistance, and Fractional Flow Reserve After ST-Segment Elevation Myocardial Infarction. Journal of the American College of Cardiology, 2014, 64, 1894-1904.	1.2	141
14	Heart failure after myocardial infarction in the era of primary percutaneous coronary intervention: Mechanisms, incidence and identification of patients at risk. World Journal of Cardiology, 2017, 9, 407.	0.5	136
15	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.	1.1	111
16	Remote ischemic conditioning: from experimental observation to clinical application: report from the 8th Biennial Hatter Cardiovascular Institute Workshop. Basic Research in Cardiology, 2015, 110, 453.	2.5	103
17	Acute myocardial infarction activates distinct inflammation and proliferation pathways in circulating monocytes, prior to recruitment, and identified through conserved transcriptional responses in mice and humans. European Heart Journal, 2015, 36, 1923-1934.	1.0	88
18	How does coronary stent implantation impact on the status of the microcirculation during primary percutaneous coronary intervention in patients with ST-elevation myocardial infarction?. European Heart Journal, 2015, 36, 3165-3177.	1.0	88

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19	Splenic T1-mapping: a novel quantitative method for assessing adenosine stress adequacy for cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 1.	1.6	81
20	Index of Microcirculatory Resistance as a Tool to Characterize Microvascular Obstruction and to Predict Infarct Size Regression in Patients With STEMI Undergoing Primary PCI. JACC: Cardiovascular Imaging, 2019, 12, 837-848.	2.3	74
21	CMR Native T1 Mapping Allows Differentiation of Reversible Versus Irreversible Myocardial Damage in ST-Segmentâ€“Elevation Myocardial Infarction. Circulation: Cardiovascular Imaging, 2017, 10, .	1.3	71
22	Metabolomic Profiling in Acute STâ€Segmentâ€“Elevation Myocardial Infarction Identifies Succinate as an Early Marker of Human Ischemiaâ€“Reperfusion Injury. Journal of the American Heart Association, 2018, 7, .	1.6	66
23	Invasive versus non-invasive management of older patients with non-ST elevation myocardial infarction (SENIOR-NSTEMI): a cohort study based on routine clinical data. Lancet, The, 2020, 396, 623-634.	6.3	65
24	Early change in invasive measures of microvascular function can predict myocardial recovery following PCI for ST-elevation myocardial infarction. European Heart Journal, 2014, 35, 1971-1980.	1.0	64
25	Impact of Complications During Transfemoral Transcatheter Aortic Valve Replacement: How Can They Be Avoided and Managed?. Journal of the American Heart Association, 2019, 8, e013801.	1.6	62
26	Effect of remote ischaemic conditioning on clinical outcomes in patients presenting with an ST-segment elevation myocardial infarction undergoing primary percutaneous coronary intervention. European Heart Journal, 2015, 36, 1846-8.	1.0	59
27	Neuropeptide-Y causes coronary microvascular constriction and is associated with reduced ejection fraction following ST-elevation myocardial infarction. European Heart Journal, 2019, 40, 1920-1929.	1.0	58
28	Index of microcirculatory resistance-guided therapy with pressure-controlled intermittent coronary sinus occlusion improves coronary microvascular function and reduces infarct size in patients with ST-elevation myocardial infarction: the Oxford Acute Myocardial Infarction â€“ Pressure-controlled Intermittent Coronary Sinus Occlusion study (OxAMI-PICSO study). EuroIntervention, 2018, 14, e352-e359.	1.4	58
29	The cardiac sympathetic co-transmitter neuropeptide Y is pro-arrhythmic following ST-elevation myocardial infarction despite beta-blockade. European Heart Journal, 2020, 41, 2168-2179.	1.0	53
30	Zero-Flow Pressure Measured Immediately After Primary Percutaneous Coronary Intervention for ST-Segment Elevation Myocardial Infarction Provides the Best Invasive Index for Predicting the Extent ofÂMyocardial Infarction at 6 Months. JACC: Cardiovascular Interventions, 2015, 8, 1410-1421.	1.1	51
31	Association of troponin level and age with mortality in 250â€‰000 patients: cohort study across five UK acute care centres. BMJ, The, 2019, 367, l6055.	3.0	45
32	Relationship of plasma neuropeptide Y with angiographic, electrocardiographic and coronary physiology indices of reperfusion during ST elevation myocardial infarction. Heart, 2013, 99, 1198-1203.	1.2	42
33	Coronary microvascular dysfunction in patients with stable coronary artery disease: The CE-MARC 2 coronary physiology sub-study. International Journal of Cardiology, 2018, 266, 7-14.	0.8	41
34	Rationale and design of the Medical Research Council's Precision Medicine with Zibotentan in Microvascular Angina (PRIZE) trial. American Heart Journal, 2020, 229, 70-80.	1.2	40
35	Coronary Microvascular Dysfunction Assessed by Pressure Wire and CMR After STEMI Predicts Long-Term Outcomes. JACC: Cardiovascular Imaging, 2021, 14, 1948-1959.	2.3	39
36	Comparison of Doppler Flow Velocity and Thermodilution Derived Indexes of Coronary Physiology. JACC: Cardiovascular Interventions, 2022, 15, 1060-1070.	1.1	38

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37	Aldehyde dehydrogenase-2 inhibition blocks remote preconditioning in experimental and human models. Basic Research in Cardiology, 2013, 108, 343.	2.5	36
38	Index of Microcirculatory Resistance at the Time of Primary Percutaneous Coronary Intervention Predicts Early Cardiac Complications: Insights From the OxAMI (Oxford Study in Acute Myocardial) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	3.6	36
39	Hyperaemic microvascular resistance predicts clinical outcome and microvascular injury after myocardial infarction. Heart, 2018, 104, 127-134.	1.2	35
40	Clinical Events After Deferral of LADÂRevascularization Following PhysiologicalÂCoronaryÂAssessment. Journal of the American College of Cardiology, 2019, 73, 444-453.	1.2	35
41	3D reconstruction of coronary arteries from 2D angiographic projections using non-uniform rational basis splines (NURBS) for accurate modelling of coronary stenoses. PLoS ONE, 2018, 13, e0190650.	1.1	32
42	Influence of long-term treatment with glyceryl trinitrate on remote ischemic conditioning. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 315, H150-H158.	1.5	29
43	A tool for predicting the outcome of reperfusion in ST-elevation myocardial infarction using age, thrombotic burden and index of microcirculatory resistance (ATI score). EuroIntervention, 2016, 12, 1223-1230.	1.4	29
44	Sex Differences in Instantaneous Wave-Free Ratio or Fractional Flow Reserveâ€“Guided Revascularization Strategy. JACC: Cardiovascular Interventions, 2019, 12, 2035-2046.	1.1	26
45	The ATI score (age-thrombus burden-index of microcirculatory resistance) determined during primary percutaneous coronary intervention predicts final infarct size in patients with ST-elevation myocardial infarction: a cardiac magnetic resonance validation study. EuroIntervention, 2017, 13, 935-943.	1.4	26
46	Invasive coronary physiology in patients with angina and non-obstructive coronary artery disease: a consensus document from the coronary microvascular dysfunction workstream of the British Heart Foundation/National Institute for Health Research Partnership. Heart, 2023, 109, 88-95.	1.2	26
47	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.	3.0	25
48	Acute Microvascular Impairment Post-Reperfused STEMI Is Reversible and Has Additional Clinical Predictive Value. JACC: Cardiovascular Imaging, 2019, 12, 1783-1793.	2.3	25
49	Long-Term Clinical Outcomes in Patients With an Acute ST-Segment-Elevation Myocardial Infarction Stratified by Angiography-Derived Index of Microcirculatory Resistance. Frontiers in Cardiovascular Medicine, 2021, 8, 717114.	1.1	25
50	Incremental Value of Coronary Microcirculation Resistive Reserve Ratio in Predicting the Extent of Myocardial Infarction in Patients with STEMI. Insights from the Oxford Acute Myocardial Infarction (OxAMI) Study. Cardiovascular Revascularization Medicine, 2019, 20, 1148-1155.	0.3	21
51	Ultrasound guided vascular access site management and left ventricular pacing are associated with improved outcomes in contemporary transcatheter aortic valve replacement: Insights from the OxTAVI registry. Catheterization and Cardiovascular Interventions, 2020, 96, 432-439.	0.7	21
52	Risk of infective endocarditis after surgical and transcatheter aortic valve replacement. Heart, 2022, 108, 639-647.	1.2	21
53	Mortality risk prediction of high-sensitivity C-reactive protein in suspected acute coronary syndrome: A cohort study. PLoS Medicine, 2022, 19, e1003911.	3.9	21
54	Ischaemiaâ€“reperfusion injury impairs tissue plasminogen activator release in man. European Heart Journal, 2012, 33, 1920-1927.	1.0	20

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55	Remote ischemic preconditioning impairs ventricular function and increases infarct size after prolonged ischemia in the isolated neonatal rabbit heart. Journal of Thoracic and Cardiovascular Surgery, 2014, 147, 1049-1055.	0.4	20
56	Prolonged Highâ€Dose Bivalirudin Infusion Reduces Major Bleeding Without Increasing Stent Thrombosis in Patients Undergoing Primary Percutaneous Coronary Intervention: Novel Insights From an Updated Metaâ€Analysis. Journal of the American Heart Association, 2016, 5, .	1.6	19
57	Assessing the left main stem in the cardiac catheterization laboratory. What is â€œsignificantâ€? Function, imaging or both?. Cardiovascular Revascularization Medicine, 2018, 19, 51-56.	0.3	17
58	A novel workflow combining plaque imaging, plaque and plasma proteomics identifies biomarkers of human coronary atherosclerotic plaque disruption. Clinical Proteomics, 2017, 14, 22.	1.1	16
59	Prognostic significance of troponin level in 3121 patients presenting with atrial fibrillation (The NIHR) Tj ETQq1 1 0.784314 rgBT /Ove e013684.	1.6	16
60	Rotigaptide protects the myocardium and arterial vasculature from ischaemia reperfusion injury. British Journal of Clinical Pharmacology, 2016, 81, 1037-1045.	1.1	15
61	Combined T1-mapping and tissue tracking analysis predicts severity of ischemic injury following acute STEMIâ€”an Oxford Acute Myocardial Infarction (OxAMI) study. International Journal of Cardiovascular Imaging, 2019, 35, 1297-1308.	0.7	15
62	Pressureâ€controlled intermittent coronary sinus occlusion improves the vasodilatory microvascular capacity and reduces myocardial injury in patients with <scp>STEMI</scp>. Catheterization and Cardiovascular Interventions, 2022, 99, 329-339.	0.7	15
63	Ultrasound- Versus Fluoroscopy-Guided Strategy for Transfemoral Transcatheter Aortic Valve Replacement Access: A Systematic Review and Meta-Analysis. Circulation: Cardiovascular Interventions, 2021, 14, e010742.	1.4	14
64	Effect of remote ischaemic conditioning on platelet reactivity and endogenous fibrinolysis in ST-elevation myocardial infarction: a substudy of the CONDI-2/ERIC-PPCI randomized controlled trial. Cardiovascular Research, 2021, 117, 623-634.	1.8	13
65	Transcatheter Aortic Valve Replacement for Degenerated Transcatheter Aortic Valves: The TRANSIT International Project. Circulation: Cardiovascular Interventions, 2021, 14, e010440.	1.4	13
66	Effect of remote ischaemic conditioning on infarct size and remodelling in ST-segment elevation myocardial infarction patients: the CONDI-2/ERIC-PPCI CMR substudy. Basic Research in Cardiology, 2021, 116, 59.	2.5	13
67	Transcatheter aortic valve replacement and percutaneous coronary intervention versus surgical aortic valve replacement and coronary artery bypass grafting in patients with severe aortic stenosis and concomitant coronary artery disease: A systematic review and metaâ€analysis. Catheterization and Cardiovascular Interventions, 2020, 96, 1113-1125.	0.7	11
68	Adenosine as an Adjunct Therapy in ST Elevation Myocardial Infarction Patients: Myth or Truth?. Cardiovascular Drugs and Therapy, 2015, 29, 481-493.	1.3	10
69	Human Second Window Pre-Conditioning and Post-Conditioning by Nitrite Is Influenced by a Common Polymorphism in Mitochondrial Aldehyde Dehydrogenase. JACC Basic To Translational Science, 2017, 2, 13-21.	1.9	7
70	Reflectance spectral analysis for novel characterization and clinical assessment of aspirated coronary thrombi in patients with ST elevation myocardial infarction. Physiological Measurement, 2020, 41, 045001.	1.2	7
71	Procedural and thirty-day outcomes following transfemoral implantation of the fully repositionable and retrievable Lotus valve without routine pre-dilatation in a consecutive patient cohort: a single-center experience. Cardiovascular Revascularization Medicine, 2018, 19, 78-82.	0.3	6
72	Transcatheter Aortic Valve Replacement With the LOTUS Edge System. JACC: Cardiovascular Interventions, 2021, 14, 172-181.	1.1	6

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73	Refining the Enrolment Process in Emergency Medicine Research. The European Journal of Cardiovascular Medicine, 2016, 4, 506-510.	1.0	6
74	Quality of Life After Fractional Flow Reserveâ€“Guided PCI Compared With Coronary Bypass Surgery. Circulation, 2022, 145, 1655-1662.	1.6	6
75	Adenosine Receptor Activation in theÂâ€œTriggerâ€•Limb of Remote Pre-Conditioning Mediates Human Endothelial Conditioning and Release of Circulating Cardioprotective Factor(s). JACC Basic To Translational Science, 2016, 1, 461-471.	1.9	5
76	Safety of Rotational Atherectomy Using the Radial Access in Patients With Severe Aortic Stenosis. American Journal of Cardiology, 2019, 124, 381-388.	0.7	5
77	Routine Left Ventricular Pacing for Patients Undergoing Transcatheter Aortic Valve Replacement. Structural Heart, 2019, 3, 478-482.	0.2	4
78	Perioperative ST-elevation myocardial infarction: with time of the essence, is there a case for guidelines?. British Journal of Anaesthesia, 2019, 123, 548-554.	1.5	4
79	Transfemoral Transcatheter Aortic Valve-in-Valve Implantation for Aortic Valve Bioprosthesis Failure With the Fully Repositionable and Retrievable Lotus Valve: A Single-Center Experience. Journal of Invasive Cardiology, 2017, 29, 315-319.	0.4	4
80	Role of coronary physiology in the contemporary management of coronary artery disease. World Journal of Clinical Cases, 2015, 3, 148.	0.3	3
81	Safety and operational efficiency of restructuring and redeploying a transcatheter aortic valve replacement service during the COVID-19 pandemic: The Oxford experience. Cardiovascular Revascularization Medicine, 2020, 31, 26-31.	0.3	3
82	Pressure-bounded coronary flow reserve to assess the extent of microvascular dysfunction in patients with ST-elevation acute myocardial infarction. EuroIntervention, 2021, 16, 1434-1443.	1.4	3
83	Volume of contrast to creatinine clearance ratio predicts early mortality and AKI after TAVI. Catheterization and Cardiovascular Interventions, 2022, , .	0.7	3
84	Transcatheter Aortic Valve Implantation with ACURATE neo: Results from the PROGRESS PVL Registry. Journal of Interventional Cardiology, 2022, 2022, 1-10.	0.5	3
85	Viability testing to guide myocardial revascularisation in patients with heart failure. Indian Journal of Thoracic and Cardiovascular Surgery, 2018, 34, 206-212.	0.2	2
86	Reflective learning on the role of cerebral embolic protection in TAVI patients?. European Heart Journal, 2021, 42, 2680-2682.	1.0	1
87	Implications of elevated troponin on time-to-surgery in non-ST elevation myocardial infarction (NIHR) Tj ETQq1 1 0.784314 rgBT /Over	0.8	1
88	Local Ischemic Post-Conditioning: Moving in the Right Direction?. Cardiology, 2012, 123, 223-224.	0.6	0
89	Reply. JACC: Cardiovascular Interventions, 2016, 9, 394-395.	1.1	0
90	Reply. JACC: Cardiovascular Interventions, 2016, 9, 105.	1.1	0

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91	022â€…Novel perfusion CMR reference standard for the objective diagnosis of microcirculatory dysfunction â€“ validation against prognostic invasive markers of coronary physiology. Heart, 2017, 103, A18-A18.	1.2	0
92	1â€…Coronary microvascular dysfunction in stable coronary artery disease: the CE-MARC 2 coronary physiology sub-study. , 2018, , .		0
93	3â€…Rationale and design of the Medical Research Council Precision medicine with Zibotentan in microvascular angina (PRIZE) trial MRI sub-study. , 2021, , .		0
94	1â€…Long-term prognosis after acute ST-segment elevation myocardial infarction is determined by characteristics in both non-infarcted and infarcted myocardium on cardiovascular magnetic resonance imaging. , 2021, , .		0