

Christian Seiler

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

128
papers

4,459
citations

33
h-index

65
g-index

138
ext. papers

5,038
ext. citations

6.6
avg, IF

5.27
L-index

#	Paper	IF	Citations
128	Percutaneous closure of patent foramen ovale in patients with paradoxical embolism: long-term risk of recurrent thromboembolic events. <i>Circulation</i> , 2000 , 101, 893-8	16.7	365
127	Promotion of collateral growth by granulocyte-macrophage colony-stimulating factor in patients with coronary artery disease: a randomized, double-blind, placebo-controlled study. <i>Circulation</i> , 2001 , 104, 2012-7	16.7	277
126	Beneficial effect of recruitable collaterals: a 10-year follow-up study in patients with stable coronary artery disease undergoing quantitative collateral measurements. <i>Circulation</i> , 2007 , 116, 975-83	16.7	242
125	Coronary collateral quantitation in patients with coronary artery disease using intravascular flow velocity or pressure measurements. <i>Journal of the American College of Cardiology</i> , 1998 , 32, 1272-9	15.1	203
124	Frequency distribution of collateral flow and factors influencing collateral channel development. Functional collateral channel measurement in 450 patients with coronary artery disease. <i>Journal of the American College of Cardiology</i> , 2001 , 38, 1872-8	15.1	193
123	The impact of the coronary collateral circulation on mortality: a meta-analysis. <i>European Heart Journal</i> , 2012 , 33, 614-21	9.5	183
122	The human coronary collateral circulation: development and clinical importance. <i>European Heart Journal</i> , 2013 , 34, 2674-82	9.5	156
121	Is there functional collateral flow during vascular occlusion in angiographically normal coronary arteries?. <i>Circulation</i> , 2003 , 107, 2213-20	16.7	147
120	Risk of decompression illness among 230 divers in relation to the presence and size of patent foramen ovale. <i>European Heart Journal</i> , 2004 , 25, 1014-20	9.5	147
119	Impact of stent overlap on angiographic and long-term clinical outcome in patients undergoing drug-eluting stent implantation. <i>Journal of the American College of Cardiology</i> , 2010 , 55, 1178-1188	15.1	117
118	Safety and efficacy of subcutaneous-only granulocyte-macrophage colony-stimulating factor for collateral growth promotion in patients with coronary artery disease. <i>Journal of the American College of Cardiology</i> , 2005 , 46, 1636-42	15.1	112
117	Physiologically assessed coronary collateral flow and adverse cardiac ischemic events: a follow-up study in 403 patients with coronary artery disease. <i>Journal of the American College of Cardiology</i> , 2002 , 40, 1545-50	15.1	111
116	Measurement from arteriograms of regional myocardial bed size distal to any point in the coronary vascular tree for assessing anatomic area at risk. <i>Journal of the American College of Cardiology</i> , 1993 , 21, 783-97	15.1	110
115	Patent foramen ovale and high-altitude pulmonary edema. <i>JAMA - Journal of the American Medical Association</i> , 2006 , 296, 2954-8	27.4	101
114	Is the development of myocardial tolerance to repeated ischemia in humans due to preconditioning or to collateral recruitment?. <i>Journal of the American College of Cardiology</i> , 1999 , 33, 1027-35	15.1	97
113	Assessment of the human coronary collateral circulation. <i>Circulation</i> , 2010 , 122, 1210-20	16.7	89
112	The human coronary collateral circulation. <i>European Journal of Clinical Investigation</i> , 2010 , 40, 465-76	4.6	84

111	The human coronary collateral circulation. <i>British Heart Journal</i> , 2003 , 89, 1352-7		84
110	Relation between directly detected patent foramen ovale and ischemic brain lesions in sport divers. <i>Annals of Internal Medicine</i> , 2001 , 134, 21-4	8	75
109	Normalization of abnormal coronary vasomotion by calcium antagonists in patients with hypertension. <i>Circulation</i> , 1996 , 93, 1380-7	16.7	73
108	Collateral-flow measurements in humans by myocardial contrast echocardiography: validation of coronary pressure-derived collateral-flow assessment. <i>European Heart Journal</i> , 2006 , 27, 157-65	9.5	66
107	Coronary collateral growth by external counterpulsation: a randomised controlled trial. <i>Heart</i> , 2010 , 96, 202-7	5.1	60
106	Coronary collateral flow in response to endurance exercise training. <i>European Journal of Cardiovascular Prevention and Rehabilitation</i> , 2007 , 14, 250-7		60
105	Coronary collateral function long after drug-eluting stent implantation. <i>Journal of the American College of Cardiology</i> , 2007 , 49, 15-20	15.1	59
104	Myocardial salvage through coronary collateral growth by granulocyte colony-stimulating factor in chronic coronary artery disease: a controlled randomized trial. <i>Circulation</i> , 2009 , 120, 1355-63	16.7	58
103	Direct intracoronary evidence of collateral steal in humans. <i>Circulation</i> , 1997 , 96, 4261-7	16.7	55
102	Patent foramen ovale closure in recreational divers: effect on decompression illness and ischaemic brain lesions during long-term follow-up. <i>Heart</i> , 2011 , 97, 1932-7	5.1	54
101	Physiologically assessed coronary collateral flow and intracoronary growth factor concentrations in patients with 1- to 3-vessel coronary artery disease. <i>Circulation</i> , 1999 , 100, 1945-50	16.7	51
100	Simultaneous intracoronary velocity- and pressure-derived assessment of adenosine-induced collateral hemodynamics in patients with one- to two-vessel coronary artery disease. <i>Journal of the American College of Cardiology</i> , 1999 , 34, 1985-94	15.1	49
99	Effect of endurance training on coronary artery size and function in healthy men: an invasive followup study. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002 , 282, H2216-23	5.2	45
98	The collateral circulation of the heart. <i>BMC Medicine</i> , 2013 , 11, 143	11.4	41
97	Effect of lifetime endurance training on left atrial mechanical function and on the risk of atrial fibrillation. <i>International Journal of Cardiology</i> , 2014 , 170, 419-25	3.2	39
96	The effect of heart rate reduction by ivabradine on collateral function in patients with chronic stable coronary artery disease. <i>Heart</i> , 2014 , 100, 160-6	5.1	39
95	An indicator of sudden cardiac death during brief coronary occlusion: electrocardiogram QT time and the role of collaterals. <i>European Heart Journal</i> , 2010 , 31, 1197-204	9.5	31
94	Determinants of preformed collateral vessels in the human heart without coronary artery disease. <i>Cardiology</i> , 2011 , 118, 198-206	1.6	28

93	Frequency, Reasons, and Impact of Premature Ticagrelor Discontinuation in Patients Undergoing Coronary Revascularization in Routine Clinical Practice: Results From the Bern Percutaneous Coronary Intervention Registry. <i>Circulation: Cardiovascular Interventions</i> , 2018 , 11, e006132	6	26
92	Management and follow up of prosthetic heart valves. <i>British Heart Journal</i> , 2004 , 90, 818-24		26
91	Reciprocal relationship between left ventricular filling pressure and the recruitable human coronary collateral circulation. <i>European Heart Journal</i> , 2005 , 26, 558-66	9.5	26
90	Selective Heart Rate Reduction With Ivabradine Increases Central Blood Pressure in Stable Coronary Artery Disease. <i>Hypertension</i> , 2016 , 67, 1205-10	8.5	25
89	Prognostic relevance of coronary collateral function: confounded or causal relationship?. <i>Heart</i> , 2013 , 99, 1408-14	5.1	24
88	Collateral Circulation of the Heart 2009 ,		24
87	Determinants of prognostically relevant intracoronary electrocardiogram ST-segment shift during coronary balloon occlusion. <i>American Journal of Cardiology</i> , 2012 , 110, 1234-9	3	22
86	Direct quantitative assessment of the peripheral artery collateral circulation in patients undergoing angiography. <i>Circulation</i> , 2013 , 128, 737-44	16.7	22
85	Validation of High-Risk Features for Stent-Related Ischemic Events as Endorsed by the 2017 DAPT Guidelines. <i>JACC: Cardiovascular Interventions</i> , 2019 , 12, 820-830	5	21
84	Quantitation of mitral regurgitation using the systolic/diastolic pulmonary venous flow velocity ratio. <i>Journal of the American College of Cardiology</i> , 1998 , 31, 1383-90	15.1	21
83	Percutaneous closure of patent foramen ovale in symptomatic patients. <i>Journal of Interventional Cardiology</i> , 2001 , 14, 203-9	1.8	21
82	Coronary collaterals and risk for restenosis after percutaneous coronary interventions: a meta-analysis. <i>BMC Medicine</i> , 2012 , 10, 62	11.4	19
81	Patent Foramen Ovale Closure in Obstructive Sleep Apnea Improves Blood Pressure and Cardiovascular Function. <i>Hypertension</i> , 2015 , 66, 1050-7	8.5	18
80	Effect of Permanent Right Internal Mammary Artery Closure on Coronary Collateral Function and Myocardial Ischemia. <i>Circulation: Cardiovascular Interventions</i> , 2017 , 10,	6	17
79	Time-Dependent Myocardial Necrosis in Patients With ST-Segment-Elevation Myocardial Infarction Without Angiographic Collateral Flow Visualized by Cardiac Magnetic Resonance Imaging: Results From the Multicenter STEMI-SCAR Project. <i>Journal of the American Heart Association</i> , 2019 , 8, e012429	6	17
78	Comparison of three-dimensional proximal isovelocity surface area to cardiac magnetic resonance imaging for quantifying mitral regurgitation. <i>American Journal of Cardiology</i> , 2015 , 115, 1130-6	3	17
77	Function of natural internal mammary-to-coronary artery bypasses and its effect on myocardial ischemia. <i>Circulation</i> , 2014 , 129, 2645-52	16.7	17
76	Assessment and impact of the human coronary collateral circulation on myocardial ischemia and outcome. <i>Circulation: Cardiovascular Interventions</i> , 2013 , 6, 719-28	6	16

75	G-CSF Induced Arteriogenesis in Humans: Molecular Insights into a Randomized Controlled Trial. <i>Current Vascular Pharmacology</i> , 2013 , 11, 38-46	3.3	16
74	Historical aspects and relevance of the human coronary collateral circulation. <i>Current Cardiology Reviews</i> , 2014 , 10, 2-16	2.4	15
73	Patent foramen ovale screening by ear oximetry in divers. <i>American Journal of Cardiology</i> , 2013 , 111, 286-90	3	14
72	Pathophysiology of coronary collaterals. <i>Current Cardiology Reviews</i> , 2014 , 10, 38-56	2.4	14
71	Instantaneous coronary collateral function during supine bicycle exercise. <i>European Heart Journal</i> , 2010 , 31, 2148-55	9.5	14
70	Sodium intake, life expectancy, and all-cause mortality. <i>European Heart Journal</i> , 2021 , 42, 2103-2112	9.5	14
69	Myocardial blood volume and coronary resistance during and after coronary angioplasty. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011 , 300, H1119-24	5.2	13
68	Coronary collateral perfusion in patients with coronary artery disease: effect of metoprolol. <i>European Heart Journal</i> , 2004 , 25, 565-70	9.5	13
67	Effect of pressure-controlled intermittent coronary sinus occlusion (PICSO) on myocardial ischaemia and reperfusion in a closed-chest porcine model. <i>EuroIntervention</i> , 2013 , 9, 398-406	3.1	13
66	Right ventricular adaptations and arrhythmias in amateur ultra-endurance athletes. <i>British Journal of Sports Medicine</i> , 2014 , 48, 1179-84	10.3	12
65	Safety of diagnostic balloon occlusion in normal coronary arteries. <i>American Journal of Cardiology</i> , 2010 , 105, 1716-22	3	12
64	Impact of exercise-induced coronary vasomotion on anti-ischemic therapy. <i>Coronary Artery Disease</i> , 2000 , 11, 363-9	1.4	12
63	The Human Coronary Collateral Circulation, Its Extracardiac Anastomoses and Their Therapeutic Promotion. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	11
62	Exercise-induced human coronary collateral function: quantitative assessment during acute coronary occlusions. <i>Cardiology</i> , 2003 , 100, 53-60	1.6	11
61	Tumour necrosis factor-alpha and interleukin-6 release during primary percutaneous coronary intervention for acute myocardial infarction is related to coronary collateral flow. <i>Coronary Artery Disease</i> , 2005 , 16, 147-52	1.4	11
60	Effect of patent foramen ovale closure on obstructive sleep apnea. <i>Journal of the American College of Cardiology</i> , 2015 , 65, 2257-8	15.1	10
59	Variable ECG signs of ischemia during controlled occlusion of the left and right coronary artery in humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006 , 291, H351-6	5.2	10
58	Left ventricular afterload reduction by transcatheter aortic valve implantation in severe aortic stenosis and its prompt effects on comprehensive coronary haemodynamics. <i>EuroIntervention</i> , 2018 , 14, 166-173	3.1	10

57	Unselected Use of Ultrathin Strut Biodegradable Polymer Sirolimus-Eluting Stent Versus Durable Polymer Everolimus-Eluting Stent for Coronary Revascularization. <i>Circulation: Cardiovascular Interventions</i> , 2018 , 11, e006741	6	10
56	Effects of coronary sinus occlusion on myocardial ischaemia in humans: role of coronary collateral function. <i>Heart</i> , 2013 , 99, 548-55	5.1	9
55	Microvascular response to metabolic and pressure challenge in the human coronary circulation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011 , 301, H434-41	5.2	8
54	Human pancreas-specific protein. A diagnostic and prognostic marker in acute pancreatitis and pancreas transplantation. <i>International Journal of Gastrointestinal Cancer</i> , 1996 , 19, 165-70		8
53	Salient features of the coronary collateral circulation and its clinical relevance. <i>Swiss Medical Weekly</i> , 2015 , 145, w14154	3.1	8
52	Hemodynamic Relevance of Anomalous Coronary Arteries Originating From the Opposite Sinus of Valsalva-In Search of the Evidence. <i>Frontiers in Cardiovascular Medicine</i> , 2020 , 7, 591326	5.4	8
51	Quantification of Multiple Mitral Regurgitant Jets: An In Vitro Validation Study Comparing Two- and Three-Dimensional Proximal Isovelocity Surface Area Methods. <i>Journal of the American Society of Echocardiography</i> , 2017 , 30, 511-521	5.8	7
50	Exercise-induced cardiac remodeling in non-elite endurance athletes: Comparison of 2-tiered and 4-tiered classification of left ventricular hypertrophy. <i>PLoS ONE</i> , 2018 , 13, e0193203	3.7	7
49	Electrocardiographic ST-segment monitoring during controlled occlusion of coronary arteries. <i>Journal of Electrocardiology</i> , 2014 , 47, 29-37	1.4	7
48	Physical coronary arteriogenesis: a human "model" of collateral growth promotion. <i>Trends in Cardiovascular Medicine</i> , 2010 , 20, 129-33	6.9	7
47	Patent foramen ovale (PFO): is there life before death in the presence of PFO?. <i>European Journal of Clinical Investigation</i> , 2015 , 45, 875-82	4.6	6
46	Double-chambered right ventricle. <i>Circulation</i> , 2001 , 103, E105-6	16.7	6
45	Invasive Assessment of the Human Arterial Palmar Arch and Forearm Collateral Function During Transradial Access. <i>Circulation: Cardiovascular Interventions</i> , 2019 , 12, e007744	6	5
44	Coronary collateral function in the transplanted heart: propensity score matching with coronary artery disease. <i>Heart</i> , 2011 , 97, 557-63	5.1	5
43	Adenosine-induced preconditioning of human myocardium?. <i>Circulation</i> , 1998 , 98, 824-5	16.7	5
42	Reactive myocardial hyperaemia for functional assessment of coronary stenosis severity. <i>EuroIntervention</i> , 2017 , 13, e201-e209	3.1	5
41	Effect of permanent right internal mammary artery occlusion on right coronary artery supply: A randomized placebo-controlled clinical trial. <i>American Heart Journal</i> , 2020 , 230, 1-12	4.9	5
40	Intraindividual Variability and Association of Human Collateral Supply to Different Arterial Regions. <i>American Journal of Cardiology</i> , 2016 , 117, 685-690	3	3

39	Regarding: Statin use is associated with enhanced collateralization of severely diseased coronary arteries. <i>American Heart Journal</i> , 2004 , 148, e21	4.9	3
38	Assessment of functional significance of the stenotic substrate by Doppler flow measurements. <i>Developments in Cardiovascular Medicine</i> , 1996 , 295-310		3
37	Favourable long-term survival of patients with esophageal cancer treated with extended transhiatal esophagectomy combined with en bloc lymphadenectomy: results from a retrospective observational cohort study. <i>BMC Surgery</i> , 2020 , 20, 197	2.3	2
36	Functional assessment of myocardial ischaemia by intracoronary ECG. <i>Open Heart</i> , 2021 , 8,	3	2
35	Effect of acute myocardial ischemia on inferolateral early repolarization. <i>Heart Rhythm</i> , 2020 , 17, 922-930	0.7	1
34	Perioperative management after coronary stenting: role of risk assessment and the antiplatelet conundrum. <i>Interventional Cardiology</i> , 2012 , 4, 245-252	3	1
33	G-CSF Induced Arteriogenesis in Humans: Molecular Insights into a Randomized Controlled Trial. <i>Current Vascular Pharmacology</i> , 2012 , 11, 38-46	3.3	1
32	Silent ischemia normalized for coronary collateral function in patients with and without diabetes mellitus. <i>International Journal of Cardiology</i> , 2011 , 147, 319-21	3.2	1
31	On the linearity of nature or the risk of extending regression lines beyond the observed data. <i>European Journal of Clinical Investigation</i> , 2011 , 41, 1259-60	4.6	1
30	Collateral vessel physiology and functional impact- experimental evidence of collateral behaviour. <i>Coronary Artery Disease</i> , 2004 , 15, 389-92	1.4	1
29	To measure pressure for pleasure--or is intracoronary pressure gauging pressing?. <i>Catheterization and Cardiovascular Interventions</i> , 2000 , 49, 17-8	2.7	1
28	Healthy persons at risk for iron substitution. <i>Swiss Medical Weekly</i> , 2017 , 147, w14452	3.1	1
27	Salt consumption at a population level remains remarkably steady over time. <i>European Heart Journal</i> , 2021 , 42, 2134	9.5	1
26	Cardiovascular MRI Compared to Echocardiography to Identify Cardioaortic Sources of Ischemic Stroke: A Systematic Review and Meta-Analysis. <i>Frontiers in Neurology</i> , 2021 , 12, 699838	4.1	1
25	Coronary wave intensity patterns in stable coronary artery disease: influence of stenosis severity and collateral circulation. <i>Open Heart</i> , 2019 , 6, e000999	3	1
24	The effect of pegylated granulocyte colony-stimulating factor on collateral function and myocardial ischaemia in chronic coronary artery disease: A randomized controlled trial. <i>European Journal of Clinical Investigation</i> , 2019 , 49, e13035	4.6	1
23	Accuracy of intracoronary ECG parameters for myocardial ischemia detection. <i>Journal of Electrocardiology</i> , 2021 , 64, 50-57	1.4	1
22	Anatomical and Technical Predictors of Three-Dimensional Mitral Valve Area Reduction After Transcatheter Edge-To-Edge Repair. <i>Journal of the American Society of Echocardiography</i> , 2021 ,	5.8	1

21	Can there be a moral obligation to participate in biomedical research?. <i>European Journal of Clinical Investigation</i> , 2018 , 48, e12896	4.6	o
20	Collateral Circulation 2017 , 65-77		o
19	Detection of myocardial ischemia by intracoronary ECG using convolutional neural networks. <i>PLoS ONE</i> , 2021 , 16, e0253200	3.7	o
18	Physical exercise and quantitative lower limb collateral function. <i>Open Heart</i> , 2016 , 3, e000355	3	
17	Simultaneous large bi-atrial device-related thrombi. <i>Journal of Thrombosis and Thrombolysis</i> , 2017 , 43, 130-131	5.1	
16	Letter by Meier and Seiler regarding article, "Impact of collateral flow to the occluded infarct-related artery on clinical outcomes in patients with recent myocardial infarction: a report from the randomized occluded artery trial". <i>Circulation</i> , 2011 , 123, e255; author reply e257-8	16.7	
15	Relevance of the Human Coronary Collateral Circulation 2009 , 1-70		
14	Assessment of the Human Coronary Collateral Circulation 2009 , 71-163		
13	Pathogenesis of the Human Coronary Collateral Circulation 2009 , 165-233		
12	Pathophysiology of the Human Coronary Collateral Circulation 2009 , 235-303		
11	Therapeutic Promotion of the Human Coronary Collateral Circulation 2009 , 305-408		
10	The Coronary Collateral Circulation in Man. <i>Current Cardiology Reviews</i> , 2007 , 3, 111-119	2.4	
9	Diving, Patent Foramen Ovale, and Brain Lesions. <i>Annals of Internal Medicine</i> , 2001 , 135, 929	8	
8	Sustained ventricular arrhythmias in patients receiving thrombolytic therapy. <i>Circulation</i> , 2000 , 101, E237-8	16.7	
7	Function of the Coronary Collateral Circulation in Man 2004 , 333-351		
6	Human Basic Fibroblast Growth Factor Induces Angiogenesis in Hen Eggs and Rat Hearts. <i>Circulation</i> , 1999 , 100, 1250-1252	16.7	
5	(F)Utility of invasive haemodynamic measurements to guide percutaneous intervention in chronic coronary artery disease. <i>Swiss Medical Weekly</i> , 2015 , 145, w14143	3.1	
4	Pulmonary Artery Pressure Ventricularization in a Patient With Carcinoid Heart Disease. <i>JACC: Case Reports</i> , 2020 , 2, 1200-1204	1.2	

- 3 The Concept of Securing Evidence Remote of the Crime Scene. *JACC: Cardiovascular Interventions*, **2021**, 14, 1041-1042 5
- 2 Extracardiac coronary steal induced by upper limb hyperemia: a feature of internal mammary artery arteriogenesis. *Journal of Applied Physiology*, **2021**, 131, 905-913 3-7
- 1 Yield of Echocardiography in Ischemic Stroke and Patients With Transient Ischemic Attack With Established Indications for Long-Term Direct Oral Anticoagulant Therapy: A Cross-Sectional Diagnostic Cohort Study.. *Journal of the American Heart Association*, **2022**, e024989 6