

Christian Seiler

List of Publications by Year in descending order

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Version: 2024-02-01

130
papers

5,539
citations

94269

37
h-index

82410

72
g-index

138
all docs

138
docs citations

138
times ranked

4039
citing authors

#	ARTICLE	IF	CITATIONS
1	Percutaneous Closure of Patent Foramen Ovale in Patients With Paradoxical Embolism. <i>Circulation</i> , 2000, 101, 893-898.	1.6	416
2	Promotion of Collateral Growth by Granulocyte-Macrophage Colony-Stimulating Factor in Patients With Coronary Artery Disease. <i>Circulation</i> , 2001, 104, 2012-2017.	1.6	311
3	Beneficial Effect of Recrutable Collaterals. <i>Circulation</i> , 2007, 116, 975-983.	1.6	287
4	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, 1272-1279.	1.2	232
5	The impact of the coronary collateral circulation on mortality: a meta-analysis. <i>European Heart Journal</i> , 2012, 33, 614-621.	1.0	224
6	Frequency distribution of collateral flow and factors influencing collateral channel development. <i>Journal of the American College of Cardiology</i> , 2001, 38, 1872-1878.	1.2	220
7	The human coronary collateral circulation: development and clinical importance. <i>European Heart Journal</i> , 2013, 34, 2674-2682.	1.0	199
8	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, 1014-1020.	1.0	193
9	Is There Functional Collateral Flow During Vascular Occlusion in Angiographically Normal Coronary Arteries?. <i>Circulation</i> , 2003, 107, 2213-2220.	1.6	174
10	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.	1.2	146
11	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, 1545-1550.	1.2	128
12	Patent Foramen Ovale and High-Altitude Pulmonary Edema. <i>JAMA - Journal of the American Medical Association</i> , 2006, 296, 2954.	3.8	127
13	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, 783-797.	1.2	124
14	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, 1636-1642.	1.2	124
15	The human coronary collateral circulation. <i>European Journal of Clinical Investigation</i> , 2010, 40, 465-476.	1.7	115
16	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, 1027-1035.	1.2	113
17	Assessment of the Human Coronary Collateral Circulation. <i>Circulation</i> , 2010, 122, 1210-1220.	1.6	107
18	The human coronary collateral circulation. <i>British Heart Journal</i> , 2003, 89, 1352-1357.	2.2	100

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19	Relation between Directly Detected Patent Foramen Ovale and Ischemic Brain Lesions in Sport Divers. <i>Annals of Internal Medicine</i> , 2001, 134, 21.	2.0	93
20	Normalization of Abnormal Coronary Vasomotion by Calcium Antagonists in Patients With Hypertension. <i>Circulation</i> , 1996, 93, 1380-1387.	1.6	89
21	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, 1932-1937.	1.2	80
22	Collateral-flow measurements in humans by myocardial contrast echocardiography: validation of coronary pressure-derived collateral-flow assessment. <i>European Heart Journal</i> , 2006, 27, 157-165.	1.0	72
23	Coronary collateral flow in response to endurance exercise training. <i>European Journal of Cardiovascular Prevention and Rehabilitation</i> , 2007, 14, 250-257.	3.1	70
24	Coronary Collateral Function Long After Drug-Eluting Stent Implantation. <i>Journal of the American College of Cardiology</i> , 2007, 49, 15-20.	1.2	70
25	Myocardial Salvage Through Coronary Collateral Growth by Granulocyte Colony-Stimulating Factor in Chronic Coronary Artery Disease. <i>Circulation</i> , 2009, 120, 1355-1363.	1.6	69
26	Coronary collateral growth by external counterpulsation: a randomised controlled trial. <i>Heart</i> , 2010, 96, 202-207.	1.2	69
27	Direct Intracoronary Evidence of Collateral Steal in Humans. <i>Circulation</i> , 1997, 96, 4261-4267.	1.6	68
28	The collateral circulation of the heart. <i>BMC Medicine</i> , 2013, 11, 143.	2.3	60
29	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-H2223.	1.5	56
30	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, 1945-1950.	1.6	55
31	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, 1985-1994.	1.2	53
32	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, 419-425.	0.8	52
33	The effect of heart rate reduction by ivabradine on collateral function in patients with chronic stable coronary artery disease. <i>Heart</i> , 2014, 100, 160-166.	1.2	48
34	Sodium intake, life expectancy, and all-cause mortality. <i>European Heart Journal</i> , 2021, 42, 2103-2112.	1.0	46
35	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.	1.1	42
36	Management and follow up of prosthetic heart valves. <i>British Heart Journal</i> , 2004, 90, 818-824.	2.2	39

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37	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, 1197-1204.	1.0	39
38	Determinants of Preformed Collateral Vessels in the Human Heart without Coronary Artery Disease. <i>Cardiology</i> , 2011, 118, 198-206.	0.6	38
39	Frequency, Reasons, and Impact of Premature Ticagrelor Discontinuation in Patients Undergoing Coronary Revascularization in Routine Clinical Practice. <i>Circulation: Cardiovascular Interventions</i> , 2018, 11, e006132.	1.4	38
40	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.	1.6	36
41	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.	1.1	36
42	Selective Heart Rate Reduction With Ivabradine Increases Central Blood Pressure in Stable Coronary Artery Disease. <i>Hypertension</i> , 2016, 67, 1205-1210.	1.3	32
43	Prognostic relevance of coronary collateral function: confounded or causal relationship?. <i>Heart</i> , 2013, 99, 1408-1414.	1.2	31
44	Percutaneous Closure of Patent Foramen Ovale in Symptomatic Patients. <i>Journal of Interventional Cardiology</i> , 2001, 14, 203-210.	0.5	30
45	Coronary collaterals and risk for restenosis after percutaneous coronary interventions: a meta-analysis. <i>BMC Medicine</i> , 2012, 10, 62.	2.3	29
46	Reciprocal relationship between left ventricular filling pressure and the recruitable human coronary collateral circulation. <i>European Heart Journal</i> , 2005, 26, 558-566.	1.0	28
47	Patent Foramen Ovale Closure in Obstructive Sleep Apnea Improves Blood Pressure and Cardiovascular Function. <i>Hypertension</i> , 2015, 66, 1050-1057.	1.3	27
48	Quantitation of Mitral Regurgitation Using the Systolic/Diastolic Pulmonary Venous Flow Velocity Ratio. <i>Journal of the American College of Cardiology</i> , 1998, 31, 1383-1390.	1.2	26
49	Direct Quantitative Assessment of the Peripheral Artery Collateral Circulation in Patients Undergoing Angiography. <i>Circulation</i> , 2013, 128, 737-744.	1.6	26
50	Determinants of Prognostically Relevant Intracoronary Electrocardiogram ST-Segment Shift During Coronary Balloon Occlusion. <i>American Journal of Cardiology</i> , 2012, 110, 1234-1239.	0.7	25
51	The Human Coronary Collateral Circulation, Its Extracardiac Anastomoses and Their Therapeutic Promotion. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3726.	1.8	24
52	Function of Natural Internal Mammary-to Coronary Artery Bypasses and Its Effect on Myocardial Ischemia. <i>Circulation</i> , 2014, 129, 2645-2652.	1.6	22
53	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, 1130-1136.	0.7	22
54	Effect of Permanent Right Internal Mammary Artery Closure on Coronary Collateral Function and Myocardial Ischemia. <i>Circulation: Cardiovascular Interventions</i> , 2017, 10, .	1.4	22

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55	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.	1.4	22
56	Pathophysiology of Coronary Collaterals. <i>Current Cardiology Reviews</i> , 2014, 10, 38-56.	0.6	21
57	Coronary collateral perfusion in patients with coronary artery disease: effect of metoprolol. <i>European Heart Journal</i> , 2004, 25, 565-570.	1.0	19
58	Assessment and Impact of the Human Coronary Collateral Circulation on Myocardial Ischemia and Outcome. <i>Circulation: Cardiovascular Interventions</i> , 2013, 6, 719-728.	1.4	19
59	G-CSF Induced Arteriogenesis in Humans: Molecular Insights into a Randomized Controlled Trial. <i>Current Vascular Pharmacology</i> , 2013, 11, 38-46.	0.8	19
60	Patent Foramen Ovale Screening by Ear Oximetry in Divers. <i>American Journal of Cardiology</i> , 2013, 111, 286-290.	0.7	18
61	Historical Aspects and Relevance of the Human Coronary Collateral Circulation. <i>Current Cardiology Reviews</i> , 2014, 10, 2-16.	0.6	18
62	Instantaneous coronary collateral function during supine bicycle exercise. <i>European Heart Journal</i> , 2010, 31, 2148-2155.	1.0	16
63	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, 147-152.	0.3	15
64	Right ventricular adaptations and arrhythmias in amateur ultra-endurance athletes. <i>British Journal of Sports Medicine</i> , 2014, 48, 1179-1184.	3.1	15
65	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.	1.4	15
66	Safety of Diagnostic Balloon Occlusion in Normal Coronary Arteries. <i>American Journal of Cardiology</i> , 2010, 105, 1716-1722.	0.7	14
67	Myocardial blood volume and coronary resistance during and after coronary angioplasty. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 300, H1119-H1124.	1.5	14
68	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.	1.4	13
69	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.	1.1	13
70	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> , 2022, 35, 96-104.	1.2	13
71	Human pancreas-specific protein. <i>International Journal of Gastrointestinal Cancer</i> , 1996, 19, 165-170.	0.4	12
72	Impact of exercise-induced coronary vasomotion on anti-ischemic therapy. <i>Coronary Artery Disease</i> , 2000, 11, 363-369.	0.3	12

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73	Exercise-Induced Human Coronary Collateral Function: Quantitative Assessment during Acute Coronary Occlusions. <i>Cardiology</i> , 2003, 100, 53-60.	0.6	12
74	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-H356.	1.5	12
75	Effects of coronary sinus occlusion on myocardial ischaemia in humans: role of coronary collateral function. <i>Heart</i> , 2013, 99, 548-555.	1.2	12
76	Accuracy of intracoronary ECG parameters for myocardial ischemia detection. <i>Journal of Electrocardiology</i> , 2021, 64, 50-57.	0.4	11
77	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-H441.	1.5	10
78	Effect of Patent Foramen Ovale Closure on Obstructive Sleep Apnea. <i>Journal of the American College of Cardiology</i> , 2015, 65, 2257-2258.	1.2	10
79	Salient features of the coronary collateral circulation and its clinical relevance. <i>Swiss Medical Weekly</i> , 2015, 145, w14154.	0.8	10
80	Physical Coronary Arteriogenesis: A Human "Model" of Collateral Growth Promotion. <i>Trends in Cardiovascular Medicine</i> , 2010, 20, 129-133.	2.3	9
81	Coronary collateral function in the transplanted heart: propensity score matching with coronary artery disease. <i>Heart</i> , 2011, 97, 557-563.	1.2	8
82	Electrocardiographic ST-segment monitoring during controlled occlusion of coronary arteries. <i>Journal of Electrocardiology</i> , 2014, 47, 29-37.	0.4	8
83	Patent foramen ovale (<sc>PFO</sc>): is there life before death in the presence of <sc>PFO</sc>?. <i>European Journal of Clinical Investigation</i> , 2015, 45, 875-882.	1.7	8
84	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.	1.2	8
85	Detection of myocardial ischemia by intracoronary ECG using convolutional neural networks. <i>PLoS ONE</i> , 2021, 16, e0253200.	1.1	8
86	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.	1.1	8
87	Invasive Assessment of the Human Arterial Palmar Arch and Forearm Collateral Function During Transradial Access. <i>Circulation: Cardiovascular Interventions</i> , 2019, 12, e007744.	1.4	7
88	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.	1.2	7
89	Double-Chambered Right Ventricle. <i>Circulation</i> , 2001, 103, E105-6.	1.6	6
90	Adenosine-Induced Preconditioning of Human Myocardium?. <i>Circulation</i> , 1998, 98, 824-825.	1.6	5

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91	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.	0.6	5
92	Reactive myocardial hyperaemia for functional assessment of coronary stenosis severity. <i>EuroIntervention</i> , 2017, 13, e201-e209.	1.4	5
93	Sudden Cardiac Arrest during Acute Coronary Occlusion – Who Is at Risk?. <i>Cardiology</i> , 2010, 117, 124-127.	0.6	4
94	Functional assessment of myocardial ischaemia by intracoronary ECG. <i>Open Heart</i> , 2021, 8, e001447.	0.9	4
95	Assessment of functional significance of the stenotic substrate by Doppler flow measurements. <i>Developments in Cardiovascular Medicine</i> , 1996, , 295-310.	0.1	4
96	Regarding: Statin use is associated with enhanced collateralization of severely diseased coronary arteries. <i>American Heart Journal</i> , 2004, 148, e5.	1.2	3
97	The Human Myocardial Stain as Mitigated by Coronary Collaterals. <i>Circulation</i> , 2013, 127, 670-672.	1.6	3
98	Intraindividual Variability and Association of Human Collateral Supply to Different Arterial Regions. <i>American Journal of Cardiology</i> , 2016, 117, 685-690.	0.7	3
99	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.	1.7	3
100	Deconstructing the idol of fractional flow reserve using the IDEAL report. <i>European Heart Journal</i> , 2016, 37, 2081-2083.	1.0	2
101	Can there be a moral obligation to participate in biomedical research?. <i>European Journal of Clinical Investigation</i> , 2018, 48, e12896.	1.7	2
102	Healthy persons at risk for iron substitution. <i>Swiss Medical Weekly</i> , 2017, 147, w14452.	0.8	2
103	Association of Palmar Arch Collateral Function and Radial Artery Occlusion After Transradial Access. <i>American Journal of Cardiology</i> , 2022, 168, 151-158.	0.7	2
104	To measure pressure for pleasure? or is intracoronary pressure gauging pressing?. <i>Catheterization and Cardiovascular Interventions</i> , 2000, 49, 17-18.	0.7	1
105	Diving, Patent Foramen Ovale, and Brain Lesions. <i>Annals of Internal Medicine</i> , 2001, 135, 929.	2.0	1
106	Collateral vessel physiology and functional impact – experimental evidence of collateral behaviour. <i>Coronary Artery Disease</i> , 2004, 15, 389-392.	0.3	1
107	Silent ischemia normalized for coronary collateral function in patients with and without diabetes mellitus. <i>International Journal of Cardiology</i> , 2011, 147, 319-321.	0.8	1
108	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, 1259-1260.	1.7	1

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109	Perioperative management after coronary stenting: role of risk assessment and the antiplatelet conundrum. <i>Interventional Cardiology</i> , 2012, 4, 245-252.	0.0	1
110	G-CSF Induced Arteriogenesis in Humans: Molecular Insights into a Randomized Controlled Trial. <i>Current Vascular Pharmacology</i> , 2012, 11, 38-46.	0.8	1
111	Coronary wave intensity patterns in stable coronary artery disease: influence of stenosis severity and collateral circulation. <i>Open Heart</i> , 2019, 6, e000999.	0.9	1
112	Effect of acute myocardial ischemia on inferolateral early repolarization. <i>Heart Rhythm</i> , 2020, 17, 922-930.	0.3	1
113	Salt consumption at a population level remains remarkably steady over time. <i>European Heart Journal</i> , 2021, 42, 2134-2134.	1.0	1
114	Extracardiac coronary steal induced by upper limb hyperemia: a feature of internal mammary artery arteriogenesis. <i>Journal of Applied Physiology</i> , 2021, 131, 905-913.	1.2	1
115	Collateral Circulation. , 2017, , 65-77.		1
116	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. <i>Journal of the American Heart Association</i> , 2022, 11, e024989.	1.6	1
117	Sustained Ventricular Arrhythmias in Patients Receiving Thrombolytic Therapy. <i>Circulation</i> , 2000, 101, E237-8.	1.6	0
118	The Coronary Collateral Circulation in Man. <i>Current Cardiology Reviews</i> , 2007, 3, 111-119.	0.6	0
119	Relevance of the Human Coronary Collateral Circulation. , 2009, , 1-70.		0
120	Assessment of the Human Coronary Collateral Circulation. , 2009, , 71-163.		0
121	Pathogenesis of the Human Coronary Collateral Circulation. , 2009, , 165-233.		0
122	Pathophysiology of the Human Coronary Collateral Circulation. , 2009, , 235-303.		0
123	Therapeutic Promotion of the Human Coronary Collateral Circulation. , 2009, , 305-408.		0
124	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.	1.6	0
125	Physical exercise and quantitative lower limb collateral function. <i>Open Heart</i> , 2016, 3, e000355.	0.9	0
126	Simultaneous large bi-atrial device-related thrombi. <i>Journal of Thrombosis and Thrombolysis</i> , 2017, 43, 130-131.	1.0	0

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127	Pulmonary Artery Pressure Ventricularization in a Patient With Carcinoid Heart Disease. JACC: Case Reports, 2020, 2, 1200-1204.	0.3	0
128	The Concept of Securing Evidence Remote of the Crime Scene. JACC: Cardiovascular Interventions, 2021, 14, 1041-1042.	1.1	0
129	Human Basic Fibroblast Growth Factor Induces Angiogenesis in Hen Eggs and Rat Hearts. Circulation, 1999, 100, 1250-1252.	1.6	0
130	(F)Utility of invasive haemodynamic measurements to guide percutaneous intervention in chronic coronary artery disease. Swiss Medical Weekly, 2015, 145, w14143.	0.8	0