

Peter Barlis

List of Publications by Year in descending order

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120
papers

5,405
citations

125106

35
h-index

93651

72
g-index

134
all docs

134
docs citations

134
times ranked

4875
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing the Impact of Colchicine on Coronary Plaque Phenotype After Myocardial Infarction with Optical Coherence Tomography: Rationale and Design of the COCOMO-ACS Study. <i>Cardiovascular Drugs and Therapy</i> , 2022, 36, 1175-1186.	1.3	7
2	One-year performance of biorestorative polymeric coronary bypass grafts in an ovine model: correlation between early biomechanics and late serial Quantitative Flow Ratio. <i>European Journal of Cardio-thoracic Surgery</i> , 2022, 61, 1402-1411.	0.6	3
3	Type 2 MI and Myocardial Injury in the Era of High-sensitivity Troponin. <i>European Cardiology Review</i> , 2022, 17, e03.	0.7	7
4	High endothelial shear stress and stress gradient at plaque erosion persist up to 12 months. <i>International Journal of Cardiology</i> , 2022, 357, 1-7.	0.8	3
5	Non-Newtonian Endothelial Shear Stress Simulation: Does It Matter?. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 835270.	1.1	9
6	Optical coherence tomography in coronary atherosclerosis assessment and intervention. <i>Nature Reviews Cardiology</i> , 2022, 19, 684-703.	6.1	106
7	Numerical simulation of the blood flow through the coronary artery stenosis: Effects of varying eccentricity. <i>Computers in Biology and Medicine</i> , 2022, 146, 105672.	3.9	14
8	High spatial endothelial shear stress gradient independently predicts site of acute coronary plaque rupture and erosion. <i>Cardiovascular Research</i> , 2021, 117, 1974-1985.	1.8	45
9	Angiography-Based 4-Dimensional Superficial Wall Strain and Stress: A New Diagnostic Tool in the Catheterization Laboratory. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 667310.	1.1	5
10	Optical Coherence Tomography of Coronary Plaque Progression and Destabilization. <i>Journal of the American College of Cardiology</i> , 2021, 78, 1275-1287.	1.2	11
11	Takotsubo (stress) cardiomyopathy after ChAdOx1 nCoV-19 vaccination. <i>BMJ Case Reports</i> , 2021, 14, e246580.	0.2	17
12	Association of Sex With Outcomes in Patients Undergoing Percutaneous Coronary Intervention. <i>JAMA Cardiology</i> , 2020, 5, 21.	3.0	49
13	Efficacy and safety of one-month DAPT followed by 23-month ticagrelor monotherapy in patients undergoing proximal LAD stenting: Insights from the GLOBAL LEADERS trial. <i>International Journal of Cardiology</i> , 2020, 320, 27-34.	0.8	4
14	Sensitivity analysis of FDA's benchmark nozzle regarding in vitro imperfections - Do we need asymmetric CFD benchmarks?. <i>Current Directions in Biomedical Engineering</i> , 2020, 6, 78-81.	0.2	0
15	Expert recommendations on the assessment of wall shear stress in human coronary arteries: existing methodologies, technical considerations, and clinical applications. <i>European Heart Journal</i> , 2019, 40, 3421-3433.	1.0	178
16	Computational particle tracking to model platelet behaviour near malapposed coronary stent struts. <i>European Heart Journal</i> , 2019, 40, 1890-1891.	1.0	2
17	Numerical Study of Incomplete Stent Apposition Caused by Deploying Undersized Stent in Arteries With Elliptical Cross Sections. <i>Journal of Biomechanical Engineering</i> , 2019, 141, .	0.6	3
18	Endothelial Shear Stress and Plaque Erosion. <i>JACC: Cardiovascular Imaging</i> , 2019, 12, 374-375.	2.3	53

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19	Management of atherosclerotic plaque in left internal mammary artery graft five years after angiographic patency: A case report. <i>World Journal of Cardiology</i> , 2019, 11, 277-281.	0.5	1
20	Endothelial shear stress 5 years after implantation of a coronary bioresorbable scaffold. <i>European Heart Journal</i> , 2018, 39, 1602-1609.	1.0	33
21	Elevated Blood Viscosity and Microcirculation Resulting From Coronary Stent Malapposition. <i>Journal of Biomechanical Engineering</i> , 2018, 140, .	0.6	16
22	Microvascular retinopathy and angiographically-demonstrated coronary artery disease: A cross-sectional, observational study. <i>PLoS ONE</i> , 2018, 13, e0192350.	1.1	11
23	Clozapine-Induced Myocarditis or Acute Coronary Syndrome? Optical Coherence Tomography to the Rescue. <i>Case Reports in Cardiology</i> , 2018, 2018, 1-3.	0.1	0
24	Biomechanical stress in coronary atherosclerosis: emerging insights from computational modelling. <i>European Heart Journal</i> , 2017, 38, ehv689.	1.0	87
25	Computational fluid dynamics study of common stent models inside idealised curved coronary arteries. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, 671-681.	0.9	18
26	Clinical Significance of Lipid-Rich Plaque Detected by Optical Coherence Tomography. <i>Journal of the American College of Cardiology</i> , 2017, 69, 2502-2513.	1.2	142
27	Numerical and experimental investigations of the flow-pressure relation in multiple sequential stenoses coronary artery. <i>International Journal of Cardiovascular Imaging</i> , 2017, 33, 1083-1088.	0.7	15
28	Haemodynamic effects of incomplete stent apposition in curved coronary arteries. <i>Journal of Biomechanics</i> , 2017, 63, 164-173.	0.9	20
29	Unexpected mirror-image dextrocardia in a patient with <scp>ST</scp> elevation myocardial infarction. <i>Internal Medicine Journal</i> , 2017, 47, 1084-1085.	0.5	1
30	Coronary optical coherence tomography-derived virtual fractional flow reserve (FFR): anatomy and physiology all-in-one. <i>European Heart Journal</i> , 2017, 38, 3604-3605.	1.0	4
31	Physiological Predictors of Acute Coronary Syndromes. <i>JACC: Cardiovascular Interventions</i> , 2017, 10, 2539-2547.	1.1	38
32	Abstract 21211: Serial OCT Evaluation of Stent Apposition and Longitudinal Deformation of Cobalt-Chromium versus Platinum-Chromium Everolimus Eluting Stents. <i>Circulation</i> , 2017, 136, .	1.6	0
33	Quantitative analysis of the side-branch orifice after bifurcation stenting using en-face processing of OCT images. <i>Coronary Artery Disease</i> , 2016, 27, 19-28.	0.3	0
34	The Nidus for Possible Thrombus Formation. <i>JACC: Cardiovascular Interventions</i> , 2016, 9, 2167-2168.	1.1	30
35	The impact of image resolution on computation of fractional flow reserve: coronary computed tomography angiography versus 3-dimensional quantitative coronary angiography. <i>International Journal of Cardiovascular Imaging</i> , 2016, 32, 513-523.	0.7	14
36	Optical coherence tomography guiding intervention in acute coronary syndrome. <i>Coronary Artery Disease</i> , 2015, 26, e73-e74.	0.3	1

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37	Serial three-dimensional optical coherence tomography to assess contained coronary artery perforation. <i>Coronary Artery Disease</i> , 2015, 26, e71-e72.	0.3	0
38	Optical coherence tomography to evaluate coronary stent implantation and complications. <i>Coronary Artery Disease</i> , 2015, 26, e55-e68.	0.3	5
39	Bivalirudin versus unfractionated heparin for residual thrombus burden: A frequency-domain optical coherence tomography study. <i>Catheterization and Cardiovascular Interventions</i> , 2015, 85, 575-582.	0.7	5
40	Advances in three-dimensional coronary imaging and computational fluid dynamics. <i>Coronary Artery Disease</i> , 2015, 26, e43-e54.	0.3	10
41	Developments and controversies in coronary physiology and imaging. <i>Coronary Artery Disease</i> , 2015, 26, e1.	0.3	0
42	Hazy filling defect on coronary angiography: insights from optical coherence tomography. <i>Heart</i> , 2015, 101, 1110-1110.	1.2	0
43	Long-term survival of elderly patients undergoing percutaneous coronary intervention for myocardial infarction complicated by cardiogenic shock. <i>International Journal of Cardiology</i> , 2015, 195, 259-264.	0.8	17
44	Biomechanical Modeling to Improve Coronary Artery Bifurcation Stenting. <i>JACC: Cardiovascular Interventions</i> , 2015, 8, 1281-1296.	1.1	84
45	Reversal of flow between serial bifurcation lesions: insights from computational fluid dynamic analysis in a population-based phantom model. <i>EuroIntervention</i> , 2015, 11, e1-e3.	1.4	13
46	Coronary fractional flow reserve in bifurcation stenoses: what have we learned?. <i>EuroIntervention</i> , 2015, 11, V59-V63.	1.4	9
47	Giant coronary aneurysm presenting as a cardiac mass on transthoracic echocardiogram. <i>BMJ Case Reports</i> , 2014, 2014, bcr2013202536-bcr2013202536.	0.2	1
48	Simultaneous single-vessel plaque rupture causing acute coronary syndrome detected by optical coherence tomography. <i>European Heart Journal Cardiovascular Imaging</i> , 2014, 15, 945-945.	0.5	0
49	Radiation Exposure with the Radial Approach for Diagnostic Coronary Angiography in a Centre Previously Performing Purely the Femoral Approach. <i>Heart Lung and Circulation</i> , 2014, 23, 751-757.	0.2	6
50	Plaque Rupture Within a 16-Year-Old, Bare-Metal Coronary Stent. <i>Canadian Journal of Cardiology</i> , 2014, 30, 464.e15-464.e16.	0.8	1
51	Numerical investigations of the haemodynamic changes associated with stent malapposition in an idealised coronary artery. <i>Journal of Biomechanics</i> , 2014, 47, 2843-2851.	0.9	20
52	Neoatherosclerosis – A cause of late stent thrombosis?. <i>International Journal of Cardiology</i> , 2014, 177, e1-e3.	0.8	3
53	A Twist in the Transradial Coronary Catheterisation. <i>Heart Lung and Circulation</i> , 2014, 23, e84-e87.	0.2	4
54	Therapeutic interventions for heart failure with preserved ejection fraction: A summary of current evidence. <i>World Journal of Cardiology</i> , 2014, 6, 67.	0.5	17

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55	Abstract 17859: Gender Difference in Underlying Plaque Morphology of the Culprit Lesion in Patients with Acute Myocardial Infarction: an in vivo Optical Coherence Tomography Study. <i>Circulation</i> , 2014, 130, .	1.6	0
56	Coronary stent thrombosis. <i>International Journal of Cardiology</i> , 2013, 168, 1587.	0.8	2
57	Current applications of optical coherence tomography for coronary intervention. <i>International Journal of Cardiology</i> , 2013, 165, 7-16.	0.8	47
58	The invasive assessment of coronary atherosclerosis and stents using optical coherence tomography: a clinical update. <i>Heart Asia</i> , 2013, 5, 154-161.	1.1	6
59	Expert review document part 2: methodology, terminology and clinical applications of optical coherence tomography for the assessment of interventional procedures. <i>European Heart Journal</i> , 2012, 33, 2513-2520.	1.0	349
60	Pharmacist directed home medication reviews in patients with chronic heart failure: A randomised clinical trial. <i>International Journal of Cardiology</i> , 2012, 159, 139-143.	0.8	45
61	Histological confirmation of hypersensitivity as a contributor to very-late coronary stent thrombosis. <i>International Journal of Cardiology</i> , 2012, 157, e29-e30.	0.8	7
62	Spontaneous left main coronary artery dissection in pregnancy. <i>International Journal of Cardiology</i> , 2012, 159, e11-e13.	0.8	10
63	Consensus Standards for Acquisition, Measurement, and Reporting of Intravascular Optical Coherence Tomography Studies. <i>Journal of the American College of Cardiology</i> , 2012, 59, 1058-1072.	1.2	1,530
64	Intracoronary Optical Coherence Tomography for the Assessment of In-Stent Restenosis. <i>Heart Lung and Circulation</i> , 2011, 20, 332-335.	0.2	0
65	Stroke and Takotsubo cardiomyopathy: Is there more than just cause and effect?. <i>International Journal of Cardiology</i> , 2011, 148, e37-e39.	0.8	10
66	In-stent restenosis associated with stent malapposition: Seven year optical coherence tomography findings. <i>International Journal of Cardiology</i> , 2011, 147, 149-151.	0.8	14
67	Percutaneous coronary intervention versus bypass surgery for left main coronary artery disease: a meta-analysis of randomised trials. <i>EuroIntervention</i> , 2011, 7, 738-746.	1.4	26
68	Thrombus contribution to very late restenosis of bare-metal stent treated by excimer laser angioplasty: in vivo assessment with optical coherence tomography. <i>Journal of Invasive Cardiology</i> , 2011, 23, 214-5.	0.4	2
69	New Universal Definition of Myocardial Infarction. <i>JACC: Cardiovascular Interventions</i> , 2010, 3, 950-958.	1.1	40
70	An optical coherence tomography study of a biodegradable vs. durable polymer-coated limus-eluting stent: a LEADERS trial sub-study. <i>European Heart Journal</i> , 2010, 31, 165-176.	1.0	239
71	Accuracy of OCT in Evaluating Neointimal Thickness After Stent Implantation. <i>JACC: Cardiovascular Imaging</i> , 2010, 3, 669.	2.3	0
72	Simple Versus Complex Approaches to Treating Coronary Bifurcation Lesions: Direct Assessment of Stent Strut Apposition by Optical Coherence Tomography. <i>Revista Espanola De Cardiologia (English Ed)</i> Tj ETQq0 00rgBT /Overlock 10		

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73	Multi-modality intra-coronary plaque characterization: A pilot study. <i>International Journal of Cardiology</i> , 2010, 138, 32-39.	0.8	21
74	Frequency and predictors of contrast-induced nephropathy after angioplasty for chronic total occlusions. <i>International Journal of Cardiology</i> , 2010, 139, 68-74.	0.8	80
75	Quantitative analysis of intracoronary optical coherence tomography measurements of stent strut apposition and tissue coverage. <i>International Journal of Cardiology</i> , 2010, 141, 151-156.	0.8	54
76	Intracoronary optical coherence tomography and the evaluation of stents. <i>Expert Review of Medical Devices</i> , 2009, 6, 157-167.	1.4	14
77	A Randomized Optical Coherence Tomography Study of Coronary Stent Strut Coverage and Luminal Protrusion With Rapamycin-Eluting Stents. <i>JACC: Cardiovascular Interventions</i> , 2009, 2, 437-444.	1.1	62
78	Incomplete Stent Apposition and Delayed Tissue Coverage Are More Frequent in Drug-Eluting Stents Implanted During Primary Percutaneous Coronary Intervention for ST-Segment Elevation Myocardial Infarction Than in Drug-Eluting Stents Implanted for Stable/Unstable Angina. <i>JACC: Cardiovascular Interventions</i> , 2009, 2, 445-452.	1.1	184
79	Retrograde approach to recanalising coronary chronic total occlusions immediately following a failed conventional attempt. <i>International Journal of Cardiology</i> , 2009, 133, e14-e17.	0.8	11
80	The use of intra-coronary optical coherence tomography for the assessment of sirolimus-eluting stent fracture. <i>International Journal of Cardiology</i> , 2009, 136, e16-e20.	0.8	22
81	The influence of strut thickness and cell design on immediate apposition of drug-eluting stents assessed by optical coherence tomography. <i>International Journal of Cardiology</i> , 2009, 134, 180-188.	0.8	123
82	In Vivo Assessment of High-Risk Coronary Plaques at Bifurcations With Combined Intravascular Ultrasound and Optical Coherence Tomography. <i>JACC: Cardiovascular Imaging</i> , 2009, 2, 473-482.	2.3	112
83	Use of optical coherence tomography in interventional cardiology. <i>Interventional Cardiology</i> , 2009, 1, 63-71.	0.0	4
84	Current and future developments in intracoronary optical coherence tomography imaging. <i>EuroIntervention</i> , 2009, 4, 529-533.	1.4	76
85	A multicentre evaluation of the safety of intracoronary optical coherence tomography. <i>EuroIntervention</i> , 2009, 5, 90-95.	1.4	77
86	Optical coherence tomography assessment of a new dedicated bifurcation stent. <i>EuroIntervention</i> , 2009, 5, 544-551.	1.4	23
87	Initial evidence for the return of coronary vasoreactivity following the absorption of bioabsorbable magnesium alloy coronary stents. <i>EuroIntervention</i> , 2009, 4, 481-484.	1.4	61
88	An indeterminate occlusion duration predicts procedural failure in the recanalization of coronary chronic total occlusions. <i>Catheterization and Cardiovascular Interventions</i> , 2008, 71, 621-628.	0.7	18
89	A novel approach for quantitative analysis of intracoronary optical coherence tomography: High interobserver agreement with computer-assisted contour detection. <i>Catheterization and Cardiovascular Interventions</i> , 2008, 72, 228-235.	0.7	63
90	Optical Coherence Tomography. <i>JACC: Cardiovascular Interventions</i> , 2008, 1, 174-175.	1.1	12

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91	Optical Coherence Tomography Findings in Very Late (4 Years) Paclitaxel-Eluting Stent Thrombosis. JACC: Cardiovascular Interventions, 2008, 1, 449-451.	1.1	11
92	Assessment of Culprit and Remote Coronary Narrowings Using Optical Coherence Tomography With Long-Term Outcomes. American Journal of Cardiology, 2008, 102, 391-395.	0.7	68
93	Haemodynamic significance of an anomalous right coronary with inter-arterial course assessed with intracoronary pressure measurements during dobutamine challenge. International Journal of Cardiology, 2008, 126, e32-e35.	0.8	7
94	European experience with the retrograde approach for the recanalisation of coronary artery chronic total occlusions. A report on behalf of the EuroCTO club. EuroIntervention, 2008, 4, 84-92.	1.4	159
95	Immediate procedural and long-term clinical outcomes following drug-eluting stent implantation to ostial saphenous vein graft lesions. Acute Cardiac Care, 2008, 10, 88-92.	0.2	22
96	Optical coherence tomography assessment of vulnerable plaque rupture: predilection for the plaque "shoulder". European Heart Journal, 2008, 29, 2023-2023.	1.0	33
97	Comparison of Bare-Metal and Sirolimus- or Paclitaxel-Eluting Stents for Aorto-Ostial Coronary Disease. Cardiology, 2008, 111, 270-276.	0.6	15
98	Association of adiponectin with adverse outcome in coronary artery disease patients: results from the AtheroGene study. European Heart Journal, 2008, 29, 1922-1923.	1.0	2
99	Heavily Calcified Coronary Lesions Preclude Strut Apposition Despite High Pressure Balloon Dilatation and Rotational Atherectomy In-Vivo Demonstration With Optical Coherence Tomography. Circulation Journal, 2008, 72, 157-160.	0.7	69
100	Unconventional treatment of aorto-ostial in-stent restenosis with marked protrusion into the aorta. Journal of Cardiovascular Medicine, 2008, 9, 184-186.	0.6	3
101	In-vivo characterisation of coronary atherosclerosis with optical coherence tomography. Medical Journal of Australia, 2008, 188, 728-728.	0.8	5
102	Optical coherence tomography to assess malapposition in overlapping drug-eluting stents. EuroIntervention, 2008, 3, 580-583.	1.4	45
103	Novelties in cardiac imaging—optical coherence tomography (OCT). EuroIntervention, 2008, 4 Suppl C, C22-6.	1.4	2
104	Coronary bioabsorbable magnesium stent: 15-month intravascular ultrasound and optical coherence tomography findings. European Heart Journal, 2007, 28, 2319-2319.	1.0	53
105	Angiographic and histological assessment of successfully treated late acute stent thrombosis secondary to a sirolimus-eluting stent. European Heart Journal, 2007, 28, 1675-1675.	1.0	10
106	Culotte versus T-stenting in bifurcation lesions: Immediate clinical and angiographic results and midterm clinical follow-up. American Heart Journal, 2007, 154, 336-343.	1.2	42
107	Blood donation and myocardial infarction. International Journal of Cardiology, 2007, 120, 129.	0.8	0
108	Still a future for the bare metal stent?. International Journal of Cardiology, 2007, 121, 1-3.	0.8	25

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109	Giant Cardiac Myxoma. Heart Lung and Circulation, 2007, 16, 389-391.	0.2	4
110	Stenting of Unprotected Left Main Coronary Artery Stenosis. Heart Lung and Circulation, 2007, 16, S34-S38.	0.2	2
111	A new quantitative analysis system for the evaluation of coronary bifurcation lesions: Comparison with current conventional methods. Catheterization and Cardiovascular Interventions, 2007, 69, 172-180.	0.7	45
112	Treatment of unprotected left main disease with drug-eluting stents in patients at high risk for coronary artery bypass grafting. Cardiovascular Revascularization Medicine, 2007, 8, 84-89.	0.3	8
113	Retrograde approach to coronary chronic total occlusions: preliminary single European centre experience. EuroIntervention, 2007, 3, 181-187.	1.4	92
114	Successful crossing of an angulated lesion using a new deflectable-tip guidewire (Steer-IT). Journal of Invasive Cardiology, 2007, 19, E154-5.	0.4	2
115	Intravascular optical coherence tomography: optimisation of image acquisition and quantitative assessment of stent strut apposition. EuroIntervention, 2007, 3, 128-36.	1.4	104
116	Blood donation: The new cardiovascular risk factor?. International Journal of Cardiology, 2006, 106, 410.	0.8	3
117	Optimizing heart failure management: An Australian experience. International Journal of Cardiology, 2006, 112, 256.	0.8	1
118	Complex Coronary Interventions: Unprotected Left Main and Bifurcation Lesions. Journal of Interventional Cardiology, 2006, 19, 510-524.	0.5	14
119	Subclavian artery occlusion causing acute myocardial infarction in a patient with a left internal mammary artery graft. Catheterization and Cardiovascular Interventions, 2006, 68, 326-331.	0.7	14
120	What is the best contemporary treatment for in-stent restenosis?. Cardiovascular Revascularization Medicine, 2005, 6, 179-181.	0.3	2