Peter Barlis

List of Publications by Year in Descending Order

126 papers	4,169 citations	31 h-index	63 g-index
134 ext. papers	4,829 ext. citations	3.9 avg, IF	4.75 L-index

#	Paper	IF	Citations
126	Type 2 MI and Myocardial Injury in the Era of High-sensitivity Troponin.. *European Cardiology Review* , **2022**, 17, e03	3.9	0
125	Non-Newtonian Endothelial Shear Stress Simulation: Does It Matter?. *Frontiers in Cardiovascular Medicine*, **2022**, 9, 835270	5.4	0
124	Optical coherence tomography in coronary atherosclerosis assessment and intervention.. *Nature Reviews Cardiology*, **2022**,	14.8	8
123	Atherogenesis and Inflammation **2022**, 1-20		
122	Durable Polymer Everolimus Eluting Stents **2022**, 329-340		
121	Numerical simulation of the blood flow through the coronary artery stenosis: Effects of varying eccentricity. *Computers in Biology and Medicine*, **2022**, 105672	7	0
120	Takotsubo (stress) cardiomyopathy after ChAdOx1 nCoV-19 vaccination. *BMJ Case Reports*, **2021**, 14,	0.9	8
119	High spatial endothelial shear stress gradient independently predicts site of acute coronary plaque rupture and erosion. *Cardiovascular Research*, **2021**, 117, 1974-1985	9.9	13
118	Angiography-Based 4-Dimensional Superficial Wall Strain and Stress: A New Diagnostic Tool in the Catheterization Laboratory. *Frontiers in Cardiovascular Medicine*, **2021**, 8, 667310	5.4	1
117	Assessing the Impact of Colchicine on Coronary Plaque Phenotype After Myocardial Infarction with Optical Coherence Tomography: Rationale and Design of the COCOMO-ACS Study. *Cardiovascular Drugs and Therapy*, **2021**, 1	3.9	3
116	Optical Coherence Tomography of Coronary Plaque Progression and Destabilization: JACC Focus Seminar Part 3/3. *Journal of the American College of Cardiology*, **2021**, 78, 1275-1287	15.1	1
115	Sensitivity analysis of FDA□s benchmark nozzle regarding in vitro imperfections - Do we need asymmetric CFD benchmarks?. *Current Directions in Biomedical Engineering*, **2020**, 6, 78-81	0.5	
114	Association of Sex With Outcomes in Patients Undergoing Percutaneous Coronary Intervention: A Subgroup Analysis of the GLOBAL LEADERS Randomized Clinical Trial. *JAMA Cardiology*, **2020**, 5, 21-29	16.2	23
113	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. *International Journal of Cardiology*, **2020**, 320, 27-34	3.2	2
112	Expert recommendations on the assessment of wall shear stress in human coronary arteries: existing methodologies, technical considerations, and clinical applications. *European Heart Journal*, **2019**, 40, 3421-3433	9.5	70
111	Computational particle tracking to model platelet behaviour near malapposed coronary stent struts. *European Heart Journal*, **2019**, 40, 1890-1891	9.5	1
110	Management of atherosclerotic plaque in left internal mammary artery graft five years after angiographic patency: A case report. *World Journal of Cardiology*, **2019**, 11, 277-281	2.1	1

109	Numerical study of incomplete stent apposition caused by deploying undersized stent in arteries with elliptical cross-sections. *Journal of Biomechanical Engineering*, **2019**,	2.1	3
108	Endothelial Shear Stress and Plaque Erosion: A Computational Fluid Dynamics and Optical Coherence Tomography Study. *JACC: Cardiovascular Imaging*, **2019**, 12, 374-375	8.4	38
107	Endothelial shear stress 5 years after implantation of a coronary bioresorbable scaffold. *European Heart Journal*, **2018**, 39, 1602-1609	9.5	24
106	Elevated Blood Viscosity and Microrecirculation Resulting From Coronary Stent Malapposition. *Journal of Biomechanical Engineering*, **2018**, 140,	2.1	10
105	Clozapine-Induced Myocarditis or Acute Coronary Syndrome? Optical Coherence Tomography to the Rescue. *Case Reports in Cardiology*, **2018**, 2018, 5026107	0.6	
104	Microvascular retinopathy and angiographically-demonstrated coronary artery disease: A cross-sectional, observational study. *PLoS ONE*, **2018**, 13, e0192350	3.7	5
103	Computational fluid dynamics study of common stent models inside idealised curved coronary arteries. *Computer Methods in Biomechanics and Biomedical Engineering*, **2017**, 20, 671-681	2.1	13
102	Clinical Significance of Lipid-Rich Plaque Detected by Optical Coherence Tomography: A 4-Year Follow-Up Study. *Journal of the American College of Cardiology*, **2017**, 69, 2502-2513	15.1	82
101	Numerical and experimental investigations of the flow-pressure relation in multiple sequential stenoses coronary artery. *International Journal of Cardiovascular Imaging*, **2017**, 33, 1083-1088	2.5	9
100	Haemodynamic effects of incomplete stent apposition in curved coronary arteries. *Journal of Biomechanics*, **2017**, 63, 164-173	2.9	13
99	Unexpected mirror-image dextrocardia in a patient with ST elevation myocardial infarction. *Internal Medicine Journal*, **2017**, 47, 1084-1085	1.6	1
98	Coronary optical coherence tomography-derived virtual fractional flow reserve (FFR): anatomy and physiology all-in-one. *European Heart Journal*, **2017**, 38, 3604-3605	9.5	3
97	Biomechanical stress in coronary atherosclerosis: emerging insights from computational modelling. *European Heart Journal*, **2017**, 38, 81-92	9.5	64
96	Physiological Predictors of Acute Coronary Syndromes: Emerging Insights From the Plaque to the Vulnerable Patient. *JACC: Cardiovascular Interventions*, **2017**, 10, 2539-2547	5	28
95	The impact of image resolution on computation of fractional flow reserve: coronary computed tomography angiography versus 3-dimensional quantitative coronary angiography. *International Journal of Cardiovascular Imaging*, **2016**, 32, 513-23	2.5	11
94	Quantitative analysis of the side-branch orifice after bifurcation stenting using en-face processing of OCT images: a comparison between Xience V and Resolute Integrity stents. *Coronary Artery Disease*, **2016**, 27, 19-28	1.4	
93	Bifurcation Lesion Stenting **2016**, 175-184		
92	Thrombus-Containing Lesions **2016**, 233-243		

91	Cobalt-Chromium Everolimus-Eluting Stents **2016**, 313-325		
90	Platinum-Chromium Everolimus-Eluting Stents **2016**, 326-334		
89	Bioresorbable Stents **2016**, 335-343		
88	The Biolimus Stent Family **2016**, 344-359		
87	Optical Coherence Tomography, Near-Infrared Spectroscopy, and Near-Infrared Fluorescence Molecular Imaging **2016**, 91-106		
86	Atherogenesis and Inflammation **2016**, 1-16		
85	The Nidus for Possible Thrombus Formation: Insight From the Microenvironment of Bioresorbable Vascular Scaffold. *JACC: Cardiovascular Interventions*, **2016**, 9, 2167-2168	5	27
84	Hazy filling defect on coronary angiography: insights from optical coherence tomography. *Heart*, **2015**, 101, 1110, 1169	5.1	
83	Long-term survival of elderly patients undergoing percutaneous coronary intervention for myocardial infarction complicated by cardiogenic shock. *International Journal of Cardiology*, **2015**, 195, 259-64	3.2	15
82	Biomechanical Modeling to Improve Coronary Artery Bifurcation Stenting: Expert Review Document on Techniques and Clinical Implementation. *JACC: Cardiovascular Interventions*, **2015**, 8, 1281-1296	5	65
81	Optical coherence tomography guiding intervention in acute coronary syndrome. *Coronary Artery Disease*, **2015**, 26 Suppl 1, e73-4	1.4	1
80	Serial three-dimensional optical coherence tomography to assess contained coronary artery perforation. *Coronary Artery Disease*, **2015**, 26 Suppl 1, e71-2	1.4	
79	Optical coherence tomography to evaluate coronary stent implantation and complications. *Coronary Artery Disease*, **2015**, 26 Suppl 1, e55-68	1.4	5
78	Bivalirudin versus unfractionated heparin for residual thrombus burden: a frequency-domain optical coherence tomography study. *Catheterization and Cardiovascular Interventions*, **2015**, 85, 575-82	2.7	4
77	Advances in three-dimensional coronary imaging and computational fluid dynamics: is virtual fractional flow reserve more than just a pretty picture?. *Coronary Artery Disease*, **2015**, 26 Suppl 1, e43-54	1.4	8
76	Reversal of flow between serial bifurcation lesions: insights from computational fluid dynamic analysis in a population-based phantom model. *EuroIntervention*, **2015**, 11, e1-3	3.1	11
75	Coronary fractional flow reserve in bifurcation stenoses: what have we learned?. *EuroIntervention*, **2015**, 11 Suppl V, V59-63	3.1	6
74	Numerical investigations of the haemodynamic changes associated with stent malapposition in an idealised coronary artery. *Journal of Biomechanics*, **2014**, 47, 2843-51	2.9	18

73	Neoatherosclerosis--a cause of late stent thrombosis?. *International Journal of Cardiology*, **2014**, 177, e1-3	3.2	3
72	A twist in the transradial coronary catheterisation. *Heart Lung and Circulation*, **2014**, 23, e84-7	1.8	4
71	Giant coronary aneurysm presenting as a cardiac mass on transthoracic echocardiogram. *BMJ Case Reports*, **2014**, 2014,	0.9	
70	Radiation exposure with the radial approach for diagnostic coronary angiography in a centre previously performing purely the femoral approach. *Heart Lung and Circulation*, **2014**, 23, 751-7	1.8	6
69	Plaque rupture within a 16-year-old, bare-metal coronary stent. *Canadian Journal of Cardiology*, **2014**, 30, 464.e15-6	3.8	1
68	Therapeutic interventions for heart failure with preserved ejection fraction: A summary of current evidence. *World Journal of Cardiology*, **2014**, 6, 67-76	2.1	14
67	Coronary stent thrombosis. *International Journal of Cardiology*, **2013**, 168, 1587	3.2	1
66	Current applications of optical coherence tomography for coronary intervention. *International Journal of Cardiology*, **2013**, 165, 7-16	3.2	42
65	The invasive assessment of coronary atherosclerosis and stents using optical coherence tomography: a clinical update. *Heart Asia*, **2013**, 5, 154-161	1.9	6
64	Expert review document part 2: methodology, terminology and clinical applications of optical coherence tomography for the assessment of interventional procedures. *European Heart Journal*, **2012**, 33, 2513-20	9.5	286
63	Pharmacist directed home medication reviews in patients with chronic heart failure: a randomised clinical trial. *International Journal of Cardiology*, **2012**, 159, 139-43	3.2	41
62	Histological confirmation of hypersensitivity as a contributor to very-late coronary stent thrombosis. *International Journal of Cardiology*, **2012**, 157, e29-30	3.2	7
61	Spontaneous left main coronary artery dissection in pregnancy. *International Journal of Cardiology*, **2012**, 159, e11-3	3.2	10
60	Consensus standards for acquisition, measurement, and reporting of intravascular optical coherence tomography studies: a report from the International Working Group for Intravascular Optical Coherence Tomography Standardization and Validation. *Journal of the American College of Cardiology*, **2012**, 59, 1058-72	15.1	1216
59	Intracoronary optical coherence tomography for the assessment of in-stent restenosis. *Heart Lung and Circulation*, **2011**, 20, 332-5	1.8	
58	Stroke and Takotsubo cardiomyopathy: is there more than just cause and effect?. *International Journal of Cardiology*, **2011**, 148, e37-9	3.2	9
57	In-stent restenosis associated with stent malapposition: seven year optical coherence tomography findings. *International Journal of Cardiology*, **2011**, 147, 149-51	3.2	9
56	Percutaneous coronary intervention versus bypass surgery for left main coronary artery disease: a meta-analysis of randomised trials. *EuroIntervention*, **2011**, 7, 738-46, 1	3.1	22

55	Thrombus contribution to very late restenosis of bare-metal stent treated by excimer laser angioplasty: in vivo assessment with optical coherence tomography. *Journal of Invasive Cardiology*, **2011**, 23, 214-5	0.7	2
54	An optical coherence tomography study of a biodegradable vs. durable polymer-coated limus-eluting stent: a LEADERS trial sub-study. *European Heart Journal*, **2010**, 31, 165-76	9.5	210
53	Accuracy of OCT in evaluating neointimal thickness after stent implantation. *JACC: Cardiovascular Imaging*, **2010**, 3, 669; discussion 669-70	8.4	
52	Simple versus complex approaches to treating coronary bifurcation lesions: direct assessment of stent strut apposition by optical coherence tomography. *Revista Espanola De Cardiologia (English Ed)*, **2010**, 63, 904-14	0.7	8
51	Multi-modality intra-coronary plaque characterization: a pilot study. *International Journal of Cardiology*, **2010**, 138, 32-9	3.2	18
50	Frequency and predictors of contrast-induced nephropathy after angioplasty for chronic total occlusions. *International Journal of Cardiology*, **2010**, 139, 68-74	3.2	58
49	Quantitative analysis of intracoronary optical coherence tomography measurements of stent strut apposition and tissue coverage. *International Journal of Cardiology*, **2010**, 141, 151-6	3.2	48
48	Estrategia simple o compleja para lesiones de bifurcaciones coronarias: evaluaci□n inmediata de la aposici□n de los struts del stent mediante tomograf□a de coherencia □ptica. *Revista Espanola De Cardiologia*, **2010**, 63, 904-914	1.5	32
47	New universal definition of myocardial infarction applicable after complex percutaneous coronary interventions?. *JACC: Cardiovascular Interventions*, **2010**, 3, 950-8	5	31
46	Intracoronary optical coherence tomography and the evaluation of stents. *Expert Review of Medical Devices*, **2009**, 6, 157-67	3.5	13
45	A randomized optical coherence tomography study of coronary stent strut coverage and luminal protrusion with rapamycin-eluting stents. *JACC: Cardiovascular Interventions*, **2009**, 2, 437-44	5	55
44	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: insights from optical coherence tomography. *JACC: Cardiovascular Interventions*, **2009**, 2, 445-52	5	147
43	Retrograde approach to recanalising coronary chronic total occlusions immediately following a failed conventional attempt. *International Journal of Cardiology*, **2009**, 133, e14-7	3.2	10
42	The use of intra-coronary optical coherence tomography for the assessment of sirolimus-eluting stent fracture. *International Journal of Cardiology*, **2009**, 136, e16-20	3.2	21
41	The influence of strut thickness and cell design on immediate apposition of drug-eluting stents assessed by optical coherence tomography. *International Journal of Cardiology*, **2009**, 134, 180-8	3.2	116
40	In vivo assessment of high-risk coronary plaques at bifurcations with combined intravascular ultrasound and optical coherence tomography. *JACC: Cardiovascular Imaging*, **2009**, 2, 473-82	8.4	97
39	Tomograf□a de coherencia □ptica. Antiguos conceptos, nuevas perspectivas. *Revista Espanola De Cardiologia*, **2009**, 62, 806	1.5	2
38	Use of optical coherence tomography in interventional cardiology. *Interventional Cardiology*, **2009**, 1, 63-71	3	3

37	Current and future developments in intracoronary optical coherence tomography imaging. *EuroIntervention*, **2009**, 4, 529-33	3.1	69
36	A multicentre evaluation of the safety of intracoronary optical coherence tomography. *EuroIntervention*, **2009**, 5, 90-5	3.1	70
35	Optical coherence tomography assessment of a new dedicated bifurcation stent. *EuroIntervention*, **2009**, 5, 544-51	3.1	21
34	Initial evidence for the return of coronary vasoreactivity following the absorption of bioabsorbable magnesium alloy coronary stents. *EuroIntervention*, **2009**, 4, 481-4	3.1	54
33	Assessment of culprit and remote coronary narrowings using optical coherence tomography with long-term outcomes. *American Journal of Cardiology*, **2008**, 102, 391-5	3	60
32	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, e32-5	3.2	6
31	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	3.1	124
30	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		21
29	Optical coherence tomography assessment of vulnerable plaque rupture: predilection for the plaque ShoulderS *European Heart Journal*, **2008**, 29, 2023	9.5	30
28	Comparison of bare-metal and sirolimus- or paclitaxel-eluting stents for aorto-ostial coronary disease. *Cardiology*, **2008**, 111, 270-6	1.6	14
27	Association of adiponectin with adverse outcome in coronary artery disease patients: results from the AtheroGene study. *European Heart Journal*, **2008**, 29, 1922-3; author reply 1923-4	9.5	2
26	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, 157-60	2.9	60
25	Unconventional treatment of aorto-ostial instent restenosis with marked protrusion into the aorta. *Journal of Cardiovascular Medicine*, **2008**, 9, 184-6	1.9	2
24	In-vivo characterisation of coronary atherosclerosis with optical coherence tomography. *Medical Journal of Australia*, **2008**, 188, 728	4	5
23	An indeterminate occlusion duration predicts procedural failure in the recanalization of coronary chronic total occlusions. *Catheterization and Cardiovascular Interventions*, **2008**, 71, 621-8	2.7	16
22	A novel approach for quantitative analysis of intracoronary optical coherence tomography: high inter-observer agreement with computer-assisted contour detection. *Catheterization and Cardiovascular Interventions*, **2008**, 72, 228-35	2.7	53
21	Images in intervention. Optical coherence tomography findings in very late (4 years) paclitaxel-eluting stent thrombosis. *JACC: Cardiovascular Interventions*, **2008**, 1, 449-51	5	8
20	Optical coherence tomography to assess malapposition in overlapping drug-eluting stents. *EuroIntervention*, **2008**, 3, 580-3	3.1	42

19	Novelties in cardiac imaging--optical coherence tomography (OCT). *EuroIntervention*, **2008**, 4 Suppl C, C22-6	3.1	2
18	Giant cardiac myxoma. *Heart Lung and Circulation*, **2007**, 16, 389-91	1.8	3
17	Stenting of unprotected left main coronary artery stenosis. *Heart Lung and Circulation*, **2007**, 16 Suppl 3, S34-8	1.8	1
16	A new quantitative analysis system for the evaluation of coronary bifurcation lesions: comparison with current conventional methods. *Catheterization and Cardiovascular Interventions*, **2007**, 69, 172-80	2.7	42
15	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, 84-9	1.6	7
14	Coronary bioabsorbable magnesium stent: 15-month intravascular ultrasound and optical coherence tomography findings. *European Heart Journal*, **2007**, 28, 2319	9.5	48
13	Angiographic and histological assessment of successfully treated late acute stent thrombosis secondary to a sirolimus-eluting stent. *European Heart Journal*, **2007**, 28, 1675	9.5	9
12	Culotte versus T-stenting in bifurcation lesions: immediate clinical and angiographic results and midterm clinical follow-up. *American Heart Journal*, **2007**, 154, 336-43	4.9	40
11	Blood donation and myocardial infarction. *International Journal of Cardiology*, **2007**, 120, 129	3.2	
10	Retrograde approach to coronary chronic total occlusions: preliminary single European centre experience. *EuroIntervention*, **2007**, 3, 181-7	3.1	69
9	Successful crossing of an angulated lesion using a new deflectable-tip guidewire (Steer-IT). *Journal of Invasive Cardiology*, **2007**, 19, E154-5	0.7	2
8	Intravascular optical coherence tomography: optimisation of image acquisition and quantitative assessment of stent strut apposition. *EuroIntervention*, **2007**, 3, 128-36	3.1	93
7	Subclavian artery occlusion causing acute myocardial infarction in a patient with a left internal mammary artery graft. *Catheterization and Cardiovascular Interventions*, **2006**, 68, 326-31	2.7	11
6	Blood donation: the new cardiovascular risk factor?. *International Journal of Cardiology*, **2006**, 106, 410	3.2	3
5	Optimizing heart failure management: an Australian experience. *International Journal of Cardiology*, **2006**, 112, 256	3.2	1
4	Complex coronary interventions: unprotected left main and bifurcation lesions. *Journal of Interventional Cardiology*, **2006**, 19, 510-24	1.8	11
3	What is the best contemporary treatment for in-stent restenosis?. *Cardiovascular Revascularization Medicine*, **2005**, 6, 179-81	1.6	1
2	Complex Percutaneous Coronary Interventions: Left Main, Bifurcation, and Ostial Disease370-386		

List of Publications

1 Principles of Intra-Coronary Optical Coherence Tomography172-178